

Ports and Logistics

DPCL/ENV/MOEFCC/2019-122

25.11.2019

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 April 2019 – Sep-2019

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) Amendment in Environmental and CRZ clearance vide letter dated 25th March 2015 bearing F.No.11-104/2009.IA.III
- 4) Environmental and CRZ Clearance for expansion at Dhamra Port dated 29th July 2019 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 April 2019 – September-2019 in soft copy (CD) 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)

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
- Zonal Office, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, 1582
 Rajdanga Main Road, Kolkata 700 107 (W. B.)

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, Plot No. 1602, Ganeshwarpur, Januganj, Balasore – 756019

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 epit Company Ltd (A Wholly Dword Subsidiary of APSEZL) At: Dosings PO: Dhamra Bhadrak 756 171

Bhadrak 756 171 Odisha, India

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(Subrat Tripathy

Chief Executive Officer

D.

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- Zonal Office, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, 1582
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The Dhamra Port Company Ltd (A Wholly Owned Subsidiary of APSEZL) At: Dosinga, PO: Dhamra Bhadrak 756 171 Odisha, India CIN: U45205OR1998PLC005448

Tel +91 674 230 4500 Fax +91 674 230 3828 info@adani.com www.adaniports.com

Sr. No.	Conditions	Compliance Status
i	All Construction design/drawings relating to construction activities must have the approval of the concerned Government Departments/ Agencies of the State Government of Odisha.	Complied. The Project is under Operation phase inline to Phase-I development.
	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.	
ii ii	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.	Complied. The Project is under Operation phase inline to Phase-I development.
ilis	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.	Complied. No capital dredging is being carried out during the period Apr 2019 - Sep 2019. Only maintenance dredging is being carried out in this period. 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 reports for the period Apr 2019 - Sep 2019 are enclosed as Annexure I. No impact on water quality and marine productivity has been envisaged during this period.
iv	Disposal sites for excavated material should be so designed that the revised land use after dumping and changes in the land use pattern do not interfere with the natural drainage.	Complied. Dredging activity has been completed and at present the Project is under Operation phase inline to Phase-I development
V	To meet with any emergency situation, adequate foam containers should be kept ready with supporting firefighting system and water pipeline.	Complied. DPCL has a fire fighting team consisting of 37 crews including 1 officer, Sub-officer 1, supervisor-1, equipped with two fire tenders having water storage capacity of 4500 L and foam storage capacity of 500 L

Sr. No.	Conditions	Compliance Status
		type-326 & Foam (36 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, and Mumbai for the safety and health of the workers should be followed.	Complied. No operations are being carried out in sensitive areas. However, 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 Apr 2019 – Sep 2019 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 expansion. Site is undergoing expansion inline to Immediate Development Plan (Phase-II development). Greenbelt is being developed inline to this. Port layout is enclosed as Annexure IV .
		Plantation has been done along the both edges of the 62.5 km rail corridor, in adjacent villages and inside the port premises. Photographs are enclosed as Annexure V.
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.	township. The treated water is being used
		well within the prescribed standards. MARPOL and Ballast Water Convention guidelines are enforced by DPCL for visiting ships.
ix	Adequate noise control measures must	Complied.

Sr.	ng No. PD/26017/8/98-PDZ (CRZ) Conditions	Compliance Status
No.		Compliance Status
	be provided to noise levels at various	Suitable personal protective equipment's
	work places within the standard	(PPEs) (Ear muffs & ear plugs) are kept
	prescribed by the competent authorities.	mandatory for workers in noise prone
	If need be, ear plugs and ear muffs	areas. Noise monitoring (once in a month)
	should be provided to the workers in the	at site is being carried out by NABL and
	project area	MoEF&CC accredited agency and levels have been found below the standards. The
		reports for the period Apr 2019 - Sep
		2019 are enclosed as Annexure I .
	The quality of treated effluents, solid	Complied.
Х	wastes and emissions must confirm to	DPCL has two nos. of Sewage Treatment
	the standards laid down by the competent	Plant (STP) to handle 140 KLD & 15 KLD
	authority including State Pollution Control	of sewage generated at port site &
	Board, Govt. of Odisha, Bhubaneswar	township. All the treated waste water from
	Touris, Corn of Calcina, Briadariostia	STP is being used for horticulture purpose.
		Monitoring is being carried out by NABL &
		MoEF&CC recognized laboratory.
		Monitoring reports for the period Apr 2019
		- Sep 2019 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 vision of APSEZ
		to become "A Zero Waste Company" by
		the year 2020. Ambient Air Quality
		Monitoring (twice in a week) is also being
		carried out by NABL & MoEF & CC
		accredited agency, Reports for the period
	· - -	Apr 2019 - Sep 2019 is enclosed as Annexure I. All emissions are well with
		the prescribed standards.
	An Environmental Cell should be set up	Complied.
xi	immediately and made operational with	DPCL has a well-structured Environmental
	adequate laboratory facilities, equipments	Management Cell, staffed with qualified
	and a mobile van for collecting air	man power at site supported by team at
	samples. The record and data should be	Head Office in Ahmedabad
	submitted with proper analysis and].
	corrective measures required, if any, for	Environment monitoring is being carried
	maintaining the levels within the	out by NABL & MoEF&CC accredited
	prescribed limits to the Eastern Regional	agency, the monitoring results for the
	Office, Ministry of Environment & Forests,	period Apr 2019 - Sep 2019 (enclosed in

Sr. No.	Conditions	Compliance Status
	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.	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 vide letter dated 21st May 2019.
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 nos of standby DG Sets of 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 Apr 2019 – Sep 2019 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	Six monthly compliance reports are regularly submitted to the Eastern
	•	Officials from MoEF&CC Regional Office and OPCB are regularly inspecting the 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,	Full support is being extended to the

Sr. No.	Conditions	Compliance Status
	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.	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 Apr 2019 – Sep 2019 is in the tune of Rs. 2.26 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 clearance, if the conditions stipulated as above are not implemented to the satisfaction of the Ministry	Point noted
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	Point noted

Sr. No.	Conditions	Compliance Status
	Environment (Protection) Act, 1986 and	· · · · · · · · · · · · · · · · · · ·
	the Public Liability (Insurance) Act, 1991	
	along with their amendments and rules	
	from time to time.	

13/No	. 17	
Sr. No.	Conditions	Compliance Status
4	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 Apr 2019 – Sep 2019 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 acclivities. Hence the DPCL should approach the Director, 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.	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 displayed) DPCL provides support for repair services as and when required.

Sr. No.	Conditions	Compliance Status
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 customs 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 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 shoreline and nearby ecologically sensitive areas because of this ongoing

Sr. No.	Conditions	Compliance Status
		activity. The report already has been submitted in previous EC compliance Report vide letter no. DPCL/ENV/MOEFCC/2018-155 dated 20th November 2018.
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 Apr 2019 – Sep 2019 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 ecosensitive areas along the coast.	Complied. No capital dredging is being carried out during the period Apr 2019 – Sep 2019. Only maintenance dredging is being carried out in 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 & MOEFCC Annexure - I.
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 Island Conservation Plan has been approved by Forest Department as per DFO Bhadrak letter no. 1889/3F-192/2018 dated 28.05.2018 and 3148/1F-256/2018 dated 31.08.2018. Copy enclosed as Annexure-VIII.
		DPCL has already released an amount of Rs 40 Lakhs to DFO Bhadrak Wildlife Division as first phase payment of 1st year contribution amount on 24.09.2018 for implementation of Kanika Island Conservation plan. The acknowledgement of receipt of fund from DFO, Bhadrak, Wild life division is enclosed as Annexure-IX Balance amount will be released as and

Sr. No.	Conditions	Compliance Status
		when required by the DFO.
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	,

	Phase - II: Compliance report of the condition stipulated in Environmental and CRZ		
	Clearance for expansion at Dhamra Port dated 29 th July, 2019 bearing F. No. 11-104/2009-IA.III		
Sr.	JUS-IA.III		
No.	Conditions	Compliance Status	
5. Spe	ecific Condition		
i	Consent to Establishment shall be	Complied.	
	obtained from Odisha Pollution Control	Consent to Establish has been obtained.	
	Board under Air and Water Act and a		
	copy shall be submitted to the Ministry		
	before start of any construction work at		
	site		
ii	Prior clearance from National Board of	The project boundary falls outside the	
	Wildlife shall be obtained	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 is enclosed as Annexure-	
.,,	Peri.	X.	
iii	The proponent shall submit undertaking	Complied.	
	that there shall be no acquisition of	, ,	
	grazing/grave land for the project.	vide our earlier compliance letter dated	
1.2	The Degional Office of Mari	20.11.2015.	
iv	The Regional Office of MoEF may	Point noted.	
	conduct a site visit every year to verify		
<u> </u>	compliance.	Complied	
\ \ \	The Natural creek and drainage pattern		
	of the area should not be disturbed and	Drainage pattern is being maintained. The	

Sr. No.	Conditions	Compliance Status
	the cross drainage passing through cargo stack yards shall be released into settling ponds as committed.	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	Complied. No capital dredging is being carried out during the period Apr 2019 - Sep 2019. Only Maintenance dredging is being carried out in 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	disposal near the vessel. 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.	Kanika Island Conservation Plan has been approved by Forest Department as per DFO Bhadrak letter no. 1889/3F-192/2018 dated 28.05.2018 and 3148/1F-256/2018 dated 31.08.2018. Copy enclosed as Annexure-VIII. DPCL has released an amount of Rs 40 Lakhs to DFO Bhadrak Wildlife Division as first phase payment of 1st year contribution amount on 24.09.2018 for implementation of Kanika Island Conservation plan. The acknowledgement of receipt of fund from DFO, Bhadrak, Wild life division is enclosed as Annexure-IX
ix	The village forest adjacent to the project site should be developed with tree plantation, in consultation with the revenue department/forest department	Collector, Bhadrak and Divisional Forest Officer, Bhadrak Wildlife Division to carry out plantation in the village forest patch adjacent to the port. The copy letter from DFO is enclosed as Annexure-XI
х	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.

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 Apr 2019 – Sep 2019 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 XII.
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 is being developed inline to this. Total 62,000 nos. of plantation has been carried out for the period Apr 2019 – Sep 2019. 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 drawl 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 Zone Notification, 2011. The disposal of	Complied. DPCL has two nos. of Sewage Treatment Plant (STP) of capacity 140 KLD & 15 KLD to treat sewage generated at port site &

xviii Solid Way Municipa Handling xix The pro manner disturbat xx It shall displace activity a	104/2009-IA.III										
xviii Solid Way Municipa Handling xix The pro manner disturbat xx It shall displace activity a	Conditions	Compliance Status									
xix The promanner disturbate activity at the construction of the c	ed water shall confirm the regulation ate Pollution Control Board.	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 Apr 2019 – Sep 2019 is enclosed as Annexure-I .									
xx It shall displace activity a	Waste Management shall be as per cipal Solid (Management and dling) 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.									
displace activity a	project shall be executed in such a ner that there shall not be any rbance to the fishing activity.	Complied. Approach channel of the port is from South to North east, whereas Fishing boats travels from South to East. Fishing is carried out in deep Sea. Hence, no impact on fishing is envisaged because of this project.									
	nall be ensured that there is no acement of people, houses or fishing ity as a result of the project.	Complied. The port development is in intertidal area and henceforth there is no need for 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.									
Notificat Regulati	construction work other than those nitted in Coastal Regulation Zone ication shall be carried out in Coastal ulation Zone area. project proponent shall set up	Complied. Construction work is being carried out inline to CRZ notification 2011, amended till date and Environment / CRZ clearances obtained for the project. Complied.									

Sr. No.	Conditions	Compliance Status
	separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a senior executive	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. All the expenses are recorded in advanced accounting system of the organization. Budget for Environment Management measures for the Period Apr 2019 – Sep 2019 is in the tune of Rs. 2.26 crore. Detailed breakup of expenditure is enclosed as Annexure-VI .
Gener	ral 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.	1
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.	
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.	
v	The Ministry reserves the right to revoke this clearance if any of the conditions	Point noted

Sr.	009-IA.III	
No.	Conditions	Compliance Status
	stipulated are not complied with the	
	satisfaction of the Ministry.	
νi	In the event of a change in project profile	No change in the project profile or
	or change in the implementation agency,	implementing agency of the development
	a fresh reference shall be made to the	at Dhamra Port. However DPCL has now
	Ministry of Environment and Forests.	proposed Revised Master Plan for Dhamra
•		Port for which, necessary procedure inline
		to the EIA notification 2006 & CRZ
		Notification 2019, has already been
		initiated.
vii	The project proponents shall inform the	DPCL had informed the Regional Office
	Regional Office as well as the Ministry,	MOEF& CC regarding the financial closure
	the date of financial closure and final	and the date of start of land development
	approval of the project by the concerned authorities and the date of start of land	work. Date of last financial closure was on
	development work.	30th September, 2014. The same has been submitted vide our earlier
	development work.	been submitted vide our earlier compliance submitted to RO-MOEF&CC,
		Bhubaneshwar
viii	A copy of the clearance letter shall be	Complied.
*	marked to concern Panchayat/local NGO,	Copy of clearance letter was submitted to
	if any, from whom any suggestion/	concerned panchayat office vide our letter
	representation has been made received	dated 23.01.2014 for any suggestion. The
	while processing the proposal.	copy is enclosed as Annexure-XIII.
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.	
Condi	itions stipulated in the amendment dated	
	The port shall ensure that the ships under	Complied.
	operation follow the MARPOL Convention	MARPOL and Ballast Water Convention
i	with regard to discharge or spillage of any	guidelines are enforced by DPCL for
	toxic, hazardous or polluting material like ballast water, oily water or sludge,	visiting ships.
	sewage, garbage etc.	
	Dust screens shall be provided with	Complied.
	height of two meter above the stack	Site is undergoing expansion inline to
	height. Water sprinkling shall be carried	Revised Master Plan. Stack yard
	out for settling dust. Three layers of green	expansions are planned accordingly.
ii	belt of tall growing tress shall be provided	Detailed engineering design for dust
"	on all sides of the stack area.	screen will be prepared inline to Site
	i on an siacs of the stack area.	
	off all sides of the stack area.	
	off all sides of the stack area.	condition and further be implemented. Water sprinkling is being done on regular

Sr. No.	Conditions	Compliance Status
		storage area and Mechanized sweeping machine has been engaged on vehicular paths/roads for cleaning of road on daily basis. Greenbelt development is also being 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.
٧	All the recommendations of EMP and Disaster Management Plan (DMP) shall be complied with	Complied. Compliance of EMP is enclosed as Annexure XII.
6	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, the Public Liability (Insurance) Act 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Point noted
7	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.	License on storage of explosives from PESO and NOC from Fire Dept. is enclosed as Annexure-XIV .
8	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	Advertisement copies are attached as Annexure-XV.

Sr.	JU9-IA.III	
No.	Conditions	Compliance Status
	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.	
9	This clearance is subject to final order of	Point noted
	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.	
10	Any appeal against this clearance shall	Point noted
•	lie with the National Green Tribunal, if	
	preferred, within a period of 30 days as	
	prescribed under Section 16 of the	
	National Green Tribunal Act, 2010.	
11	Status of compliance to the various	Complied.
	stipulated environmental conditions and	Compliance report for each period is
	environmental safeguards will be	uploaded on the company's website
	uploaded by the project proponent in its	(http://www.adaniports.com/ports-
	website	downloads) and the same is being
		updated twice in a year.
12	A copy of the clearance letter shall be	Complied.
	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.	
13	The proponent shall upload the status of	Complied.
•	compliance of the stipulated clearance	Compliance report for each period is
	conditions, including results of monitored	uploaded on the company's website and
	data on their website and shall update the	the same is being updated twice in a year.
	same periodically. It shall simultaneously	Results of environmental monitoring are
	be sent to the Regional Office of MoEF,	enclosed as Annexures-i to the
	the representative Zonal Office of CPCB	compliance report. Hard copy as well as
	and the SPCB.	soft copy of the same are submitted to all

Sr. No.	Conditions	Compliance Status
		concerned authorities.
14	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 email) 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.
15	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 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.	Complied. Environmental Statement for FY 2018-19 was submitted to OSPCB with a copy to the Regional Office of MoEF & CC vide our letter no DPCL/ENV/OSPCB/2019-105 dated 26th Sep 2019. Copy of the same is enclosed as Annexure – XVI . All Submitted Environment Statements as well as Half Yearly Compliance Reports are available on our company website and can be viewed publicly.
16	This Environmental and CRZ Clearance is valid till 31st December, 2021.	Point noted
17	This issues with the approval of the Competent Authority.	Point noted

LIST OF ANNEXURES

<u>S. No</u>	Annexure Number	<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 Details						
6	Annexure-VI	Cost Break up of Environment Expenditure						
7	Annexure-VII	INCOIS Board						
8	Annexure-VIII	Kanika Conservation Plan Approved Letter						
8	Annexure-IX	Acknowledge copy of DFO, Wild Life Division						
9	Annexure-X	Approved Map from Forest Department Government of Odisha						
10	Annexure- XI	Permission letter from DFO to carry out the plantation in Forest village						
11	Annexure-XII	EMP & Action Plan Compliance						
12	Annexure-XIII	Environmental Clearance copy to Zillaparisad						
13	Annexure-XIV	License and NOC from Fire Dept.						
14	Annexure-XV	Advertisement in Local Newspapers intimating grant of Environmental & CRZ Clearance						
15	Annexure-XVI	Environment Statement for FY 2018-19						



ANNEXURE-I ENVIRONMENT MONITORING REPORT



An ISO 9001-2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt; of Odisha Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) SCWLW,Odlefia Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India) McEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1988.

Report no. - CEMC/TDPCL/020519/A1

Issued Date-02.05.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-02052019A1
Nature of Sampling	Ambient Air Sample
Sampling Location	Colony Area
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.04.2019 to 30.04.2019

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Date	РМ ₁₀ (µg/m ³)	РМ _{2.5} (µg/m³)	SO ₂ (μg/m ³)	NOx (µg/m³)	CO (mg/m ³)	NH ₃ (μg/m³)	Ο ₃ (μg/m ³)	Pb (µg/m³)	Ni (ng/m³)	As (ng/m ³)	Benzene (µg/m³)	BaP (ng/m³)
01.04.2019	64.7	34,3	8.6	14.5	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
04.04.2019	63.9	33.9	8.4	13.8	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.04.2019	61.3	32.8	8.3	13.6	0.4	<20	<10	< 0.06	<0.6	<0.44	<1	<1
11.04.2019	62.8	33.5	8.5	13.2	0.4	<20	<10	<0.06	<0.6	<0.44	<1	≺l
15.04.2019	64.2	34.1	8.6	14.4	0.5	<20	<10	<0.06	<0.6	< 0.44	<1	<1
18.04.2019	63.5	33.2	8.2	14.1	0.4	<20	<10	< 0.06	<0,6	< 0.44	<1	<]
22.04.2019	65.1	34.9	8.8	14.7	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
25.04.2019	64.9	34.3	8.7	13.5	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		Method as	IS: 5182 (Part-2)	13: 3164		Indophenol Blue Method followed by CPCB	IS: 5182 (Part-9)		followed	As per CPCB method followed by AAS	15: 5182 (Part-	IS: 5182 (Part- 12)

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

Ms. M. Rout, Msc. Env. Sc Notes:

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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/020519/A2

Issued Date-02.05.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-02052019A2
Nature of Sampling	Ambient Air Sample
Sampling Location	Kanakaprasad Village
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.04.2019 to 30.04.2019

Date	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m³)	SO2 (μg/m3)	NOx (µg/m3)	CO (mg/m3)	NH3 (μg/m3)	O3 (μg/m3)	Pb (µg/m3)	Ni (ng/m3)	As (ng/m3)	Benzene (µg/m3)	1
01.04.2019	60.2	31.9	7.6	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
04.04.2019	62.4	32.6	7.7	12.8	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.04.2019	61.7	31.8	7.5	12.3	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
11.04.2019	62.8	32.9	8.0	12.9	0.4	<20	<10	<0.06	< 0.6	<0.44	<1	<1
15.04.2019	60.3	31.5	7.4	12.4	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
18.04.2019	63.6	33.1	8.2	13.2	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.04.2019	59.9	30.7	7.8	12.6	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
25.04.2019	63.1	33.0	8.1	12.9	0.5	<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)				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	CPCB method	1	

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

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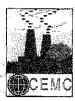
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Report no. - CEMC/TDPCL/020519/A3

Issued Date-02.05.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak				
Work Order No.	4800035134, dtd-30.07.2018				
Reference No.	CEMC-02052019A3				
Nature of Sampling	Ambient Air Sample				
Sampling Location	Near BMH				
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash				
Sampling Duration	01.04.2019 to 30.04.2019				

Date	PM ₁₀ (μg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NOx (µg/m³)	CO (mg/m³)	NH ₃ (µg/m ³)	Ο ₃ (μg/m ³)	Pb (μg/m³)	Ni (ng/m³)	As (ng/m³)	Benzene (µg/m³)	BaP (ng/m³)
01.04.2019	64.6	35.1	8.3	14,2	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
04.04.2019	62.9	34.0	8.1	14.0	0.5	<20	<10	< 0.06	< 0.6	< 0.44	<1	<1
08.04.2019	65.4	35.6	8.5	14.4	0.6	<20	<10	<0.06	<0.6	<0.44	<1	<1
11.04.2019	63,5	33.4	8.0	13.9	0.5	<20	<10	< 0.06	<0.6	<0.44	<1	<1
15.04.2019	64.7	35.3	8.4	14.3	0.6	<20	<10	< 0.06	<0.6	< 0.44	<1	<1
18.04.2019	61.9	33.1	8.3	14.1	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.04.2019	65.2	35,5	8.7	14.3	0.6	<20	<10	<0.06	<0.6	<0.44	<1	<1
25.04.2019	63.8	34.2	8.2	14.0	0.5	<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)	SE MAY	IS: 5182	IS: 5182 (Part-6)	IS: 5182	Method	IS: 5182	IS: 5182 (Part-22)		CPCB method	IS: 5182 (Part-11)	IS: 5182 (Part- 12)

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

Ms. M. Rout, Msc. Env. Sc IGAZETTE NO 120 00 2016 2016

Notes:

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Report no. - CEMC/TOPCL/020519/A4

Issued Date-02.05.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-02052019A4
Nature of Sampling	Ambient Air Sample
Sampling Location	Near Jetty
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.04.2019 to 30.04.2019

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m³)	NOx (µg/m³)	CO (mg/m³)	NH ₃ (µg/m ³)	O ₃ (μg/m ³)	Pb (μg/m³)	Ni (ng/m³)	As (ng/m³	Benzene (µg/m³)	BaP (ng/m³)
01.04.2019	71.8	37.6	8.9	14.5	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
04.04.2019	73.5	37.8	9.1	14.9	0,6	<20	<10	<0.06	<0.6	<0.44	<1	<i< td=""></i<>
08.04.2019	72.3	37.2	8.7	14.6	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
11,04,2019	69.7	35.8	8.4	13.7	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
15.04.2019	72.6	37.3	9.0	14.8	0.6	<20	<10	<0.06	<0.6	<0.44	<1	<1
18.04.2019	70,9	37.4	8.6	14.2	0.5	<20	<10	< 0.06	<0.6	<0,44	<1	<1
22.04.2019	74.2	38.1	9.2	15.0	0.6	<20	<10	< 0.06	<0.6	<0.44	<1	<1
25.04.2019	72.6	37.5	8.9	14.5	0.5	<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)	460 17 634	IS: 5182	IS: 5182 (Part-6)			IS: 5182	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB metho d followe d by AAS	IS: 5182 (Part-	IS: 5182 (Part- 12)

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

Ms. M. Rout, Msc. Env. Sc.
GRAVE Description
(GAZET Netherized Signatory
Notes:

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Report no. - CEMC/TDPCL/020519/A5

Issued Date-02.05,2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-02052019A5
Nature of Sampling	Ambient Air Sample
Sampling Location	Dosinga Village
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.04.2019 to 30.04.2019

Date	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (µg/m ³)	NOx (μg/m³)	CO (mg/m³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (μg/m³)	Ni (ng/m³)	As (ng/m ³)	Benzene (µg/m³)	
01.04.2019	60.4	33.2	7.6	13.7	0.5	<20	<10	<0.06	<0.6	20.44	22	
04.04.2019	58.2	31.7	7.3	13.2	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.04.2019	59.5	32.4	7.7	13.5	0.5	<20	<10	<0.06	<0.6	<0.44	<1 <1	<1
11.04.2019	61.3	33.6	8.2	14.0	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1 <1
15.04.2019	59,6	32.8	7.9	13.7	0.4	<20	<10	<0.06	<0.6	< 0.44	<1	<1
18.04,2019	61.5	33.5	8.1	13,8	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.04.2019	60.8	33.7	7.8	13.6	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<u><1</u>
25.04,2019	62.1	33.9	8.2	13.9	0.5	<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	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nois Blue Method followed by CPCB	IS: 5182	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.

Ms. M. Rout, Msc. Env. Sc CAND ANALYST (GAZE ATTINOZPISTISPA 103 VO 6-2016 Notes:

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Report no. - CEMC/TDPCL/020519/A6

Issued Date-02.05.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak 4800035134, dtd-30,07,2018					
Work Order No.						
Reference No.	CEMC-02052019A6					
Nature of Sampling	Ambient Air Sample					
Sampling Location	Bhitarkanika (Eco Sensitive)					
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash					
Sampling Duration	01.04,2019 to 30.04,2019					

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NOx (µg/m³)	CO (mg/m³)	NH ₃ (µg/m ³)	O ₃ (µg/m³)	Pb (µg/m³)	Ni (ng/m³)	As (ng/m³)	Benzene (µg/m³)	BaP (ng/m
01.04.2019	50.4	27.8	6.3	10.5	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
04.04,2019	51.2	27.9	6.6	10.7	0.3	<20	<10	< 0.06	<0.6	<0.44	<1	<1
08.04.2019	49.8	26.9	6.2	10.1	0.3	<20	<10	<0.06	<0.6	< 0.44	<1	<1
11.04.2019	52.3	28.1	6.8	10.9	0.4	<20	<10	< 0.06	<0.6	<0.44	<1	<1
15.04.2019	50,5	27.8	6.5	10.7	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
18.04.2019	49.7	27.0	6.4	10.6	0.4	<20	<10	<0.06	<0.6	< 0.44	<1	<1
22.04.2019	51.6	27.9	6.6	10.8	0.3	<20	<10	<0.06	<0.6	< 0.44	<1	<1
25.04.2019	50.1	27.6	6.5	10.4	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				Indophe nol Blue Method followed by CPCB	IS: 5182			CPCB method	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

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

Ms. M. Rout, Msc. Env. Sc. GAZET ARTHORIZED STRATON Notes: 1357. DI-03-06-2016

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Report no. - CEMC/TDPCL/020519/N

Issued Date-02.05,2019

NOISE LEVEL MONITORING REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30,07,2018
Analysis No.	CEMC/TDPCL-D00N1
Nature of Sampling	Noise Sample
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Date	01.04.2019 to 30.04.2019

Date	Location	NLI	NL Night Time dB (A)				
	xacation .	Max	Min.	Avg.	Max.	Min.	Avg.
02.04.2019	Near Jetty (I)	73.1	64.3	68.7	68.4	61.2	64.8
05.04.2019	Near BMH-1	71.2	64.6	67.9	67.1	60.7	63.9
09.04.2019	Colony Area (R)	54.1	51.9	53.0	44.2	39.6	41.9
12.04.2019	Kanakaprasad Village (R)	54.6	51.8	53.2	43.4	40.8	42.1
16.04.2019	Dosinga village (R)	54,3	52.1	53.2	44.5	40.7	42.6
19.04.2019	Ecosensitive Zone	52.3	49.7	51.0	41.7	38.9	40.3

^{*}NL- Noise Level, I- Industrial, R- Residential

National Standard of Noise Level

	Area Code	Category of Area/Zone	Perpossible L Day Time	enit in dE (A) Night Time
L	Α	Industrial Area	75	70
. [В	Commercial Area	65	55
	С	Residential Area	55	45
	D	Silence Zone	50	40

Ms. M. Rout, Msc. Env. Sc CONCANALYST (GAZETA 6 Nor 1268 Signa 00-26-2016

Notes:

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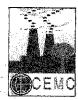
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Report no. - CEMC/TDPCL/020519/W1

Issued Date-02.05.2019

STP TEST REPORT

Name & Address of the Customer

Work order No.
Sampling by
Date of Sampling
Date of Receiving
Sampling & Testing Procedure
Sample Description
Sample Quantity
Sample Location with Job Code
Reference Number

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

Bhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 06.04.2019 & 23.04.2019 : 07.04.2019 & 24.04.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

Management

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: STP - 15 KLD (Inlet)

: CEMC-02052019W1

STP INLET ANALYSIS RESULT

SIL		Unit of	Re	sult	Sec. 19.
No.	Parameter	Measurement	1 st Fortnight	2 nd Fortnight	Design parameter for Raw Sewage
1	Appearance		Turbid	Turbid	
2	Colour		Blackish	Blackish	-
3	Odour		Foul	Foul	·····································
4	pH Value @ 25°C	—	6.87	6.98	6.0-8.5
5	Total Suspended Solids	mg/l	131.2	119.4	1000
6	B.O.D for 3 days @ 27°C	mg/l	190	180	300-350
7	Oil & Grease	mg/l	7.9	7.7	100
8	COD	mg/l	540	510	·
9	Ammonical Nitrogen	mg/l	8.1	7.9	
10	Total Nitrogen	mg/l	39.3	36.8	——————————————————————————————————————
11	Faecal Coliform	MPN/100ml	>1600	>1600	

Ms. M. Rout, Msc. Env. Sc. Gayrdanacy 97 (GAZEWEINOZASSIGNAGO) 06-2016

Notes:

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Report no. - CEMC/TDPCL/020519/W2

Issued Date-02.05.2019

STP TEST REPORT

Name & Address of the Customer

Work order No.
Sampling by
Date of Sampling
Date of Receiving
Sampling & Testing Procedure
Sample Description
Sample Quantity

Sample Location with Job Code

Reference Number

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

Bhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 06.04.2019 & 23.04.2019

: 07.04.2019 & 24.04.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 15 KLD (Outlet)

: CEMC-02052019W2

STP OUTLET ANALYSIS RESULT

SI.		Unit of	Res	ult	Standards for New STPs Design after notification 2015		
No.	Parameter	Measurement	1 st Fortnight	2 nd Fortnight			
1.	Appearance		Clear	Clear	<u>-</u>		
2	Colour		Colorless	Colorless	-		
3	Odour		Odourless	Odourless			
4	pH Value @ 25°C		7.27	7.31	6.5-9.0		
5	Total Suspended Solids	mg/l	16.7	15.3	<20		
6	B.O.D for 3 days @ 27°C	mg/l	9.6	9,4	<10		
7	Oil & Grease	mg/l	<5	<5			
8	COD	mg/l	30	28	<50		
9	Ammonical Nitrogen	mg/l	1.5	1.2	<u> </u>		
10	Total Nitrogen	mg/l	5.7	6.5	<10		
11	Faecal Coliform	MPN/100ml	21	22	<100		

Ms. M. Rout, Msc. Env. Sc.
Gayt Manager 19
GAZET A Ethorized Programme 19
Notes:

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Report no. - CEMC/TDPCL/020519/W3

Issued Date-02.05.2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by Date of Sampling Date of Receiving Sampling & Testing Procedure Sample Description Sample Quantity

Sample Location with Job Code

Reference Number

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

Bhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 06.04.2019 & 23.04,2019

: 07.04.2019 & 24.04.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 140 KLD (Inlet)

: CEMC-02052019W3

STP INLET ANALYSIS RESULT

SL		Unit of	Re	sult	D		
No.	Parameter	Measurement	1st Fortnight	2nd Fortnight	Design parameter for Ra Sewage		
1	Appearance		Turbid	Turbid	-		
2	Colour	-	Blackish	Blackish	-		
3	Odour		Foul	Foul			
4	pH Value @ 25°C	-	6.69	6.87	6.0-8.5		
5	Total Suspended Solids	mg/l	137.6	141.8	1000		
6	B.O.D for 3 days @ 27°C	mg/l	220	210	300-350		
7	Oil & Grease	mg/l	6.9	7.4	100		
8	COD	mg/l	610	620			
9	Ammonical Nitrogen	mg/l	4.3	4.7			
10	Total Nitrogen	mg/l	38.6	35.3			
11	Faecal Coliform	MPN/100ml	>1600	>1600			

Ms. M. Rout, Ms Env. Sc Gold Market ST GAZET NEWS 1357 BI-03-06-2016

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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/020519/W4

Issued Date-02.05,2019

STP TEST REPORT

Name & Address of the Customer

Work order No.
Sampling by
Date of Sampling
Date of Receiving
Sampling & Testing Procedure
Sample Description
Sample Quantity
Sample Location with Job Code
Reference Number

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

Bhadrak

: 4800035134, dtd-30.07.2018 : Mr. Bhaktahari Dash : 06.04,2019 & 23.04,2019

: 07.04.2019 & 24.04.2019 : APHA 23rd Edition

: Waste Water : 1.0 Ltr each

: STP - 140 KLD (Outlet)

: CEMC-02052019W4

STP OUTLET ANALYSIS RESULT

SI.		Unit of	Res	sult	Clarity and the second		
No.	Parameter	Measurement	I st Fortnight	2 nd Fortnight	Standards for New STPs Design after notification 2015		
1	Appearance	_	Clear	Clear			
2	Colour	Mee	Colorless	Colorless	_		
3	Odour	****	Odourless	Odourless	-		
4	pH Value @ 25°C	metion	7.28	7.37	6.5-9.0		
5	Total Suspended Solids	mg/l	16.9	17.3	<20		
6	B.O.D for 3 days @ 27°C	mg/l	9.8	9.6	<10		
7	Oil & Grease	mg/l	<5	<5	4.		
8	COD	mg/l	36	40	<50		
9	Ammonical Nitrogen	mg/l	1.9	1.9	₹5		
10	Total Nitrogen	mg/l	5,8	6.1	<10		
11	Faecal Coliform	MPN/100ml	26	22	<100		

Notes:

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Report no. - CEMC/TDPCL/030619/A1

Issued Date-03.06,2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30,07,2018
Reference No.	CEMC-03062019A1
Nature of Sampling	Ambient Air Sample
Sampling Location	Colony Area
Sampling By	Mr.Chandan Kumar & Mr. Bhaktabari Dash
Sampling Duration	01.05.2019 to 31.05.2019

ANALYSIS RESILT

ANALYSIS RESULT												
PM ₁₀	PM _{2.5}	SO ₂	NOx	CO	NH ₃	O ₃	Pb	Ni	As	Benzene		
					(ha/m_)	(mg/m)	(µg/m)	(ng/m ²)	(ng/m ²)	(ug/m')	(ng/m^3)	
65.8	35.1	8,8	14.3	0.5	<20	<10	< 0.06	< 0.6	< 0.44	<1	<1	
42.3	24.2	8.0	12.5	0.3	<20	<10	< 0.06	<0.6	<0.44	<1	<1	
51.5	31.7	8.2	13.3	0.4	<20	<10	< 0.06	<0.6	<0.44	<1	<1	
58.4	32.3	8.6	13.7	0.4	<20	<10	< 0.06	<0.6	<0.44	<1	<1.	
61.2	34.4	8.9	14.0	0.5	<20	<10	< 0.06	<0.6	<0.44	<1	<1	
64.7	34,8	9.0	14.2	0.5	<20	<10	< 0.06	<0.6	<0.44	<1	<1	
65.6	35.2	9.1	14.4	0.5	<20	<10	< 0.06	<0.6	<0.44	<1	<1	
63.1	34.9	8.7	13.8	0.4	<20	<10	< 0.06	<0.6	<0.44	<1	<1	
100	60	80	80	4	400	100	1.0	20	6	5	1	
IS: 5182 (Part- 23)	Method as		13: 3162	(Dame	Blue Method followed by	IS: 5182	K	followed	method followed	(Part- 11)	IS: 5182 (Part- 12)	
	(µg/m³) 65,8 42,3 51,5 58,4 61,2 64,7 65,6 63,1 100 IS: 5182 (Part-	(µg/m³) (µg/m³) 65.8 35.1 42.3 24.2 51.5 31.7 58.4 32.3 61.2 34.4 64.7 34.8 65.6 35.2 63.1 34.9 100 60 IS: 5182 (Part-23) Gravimetric Method as per CPCB	(µg/m³) (µg/m³) (µg/m³) 65.8 35.1 8.8 42.3 24.2 8.0 51.5 31.7 8.2 58.4 32.3 8.6 61.2 34.4 8.9 64.7 34.8 9.0 65.6 35.2 9.1 63.1 34.9 8.7 100 60 80 IS: 5182 (Part-23) Per CPCB (Part-2)	(μg/m³) <	PM ₁₀ (μg/m³) PM ₂₅ (μg/m³) SO ₂ (μg/m³) NOx (μg/m³) (μg/m³) CO (μg/m³) (μg/m³) 65.8 35.1 8.8 14.3 0.5 42.3 24.2 8.0 12.5 0.3 51.5 31.7 8.2 13.3 0.4 58.4 32.3 8.6 13.7 0.4 61.2 34.4 8.9 14.0 0.5 64.7 34.8 9.0 14.2 0.5 65.6 35.2 9.1 14.4 0.5 63.1 34.9 8.7 13.8 0.4 100 60 80 80 4 Gravimetric Method as per CPCB (Part-2) (Part-6) (Part-2) (Part-10) (Part-10)	PM ₁₀	PM ₁₀	PM ₁₀	PM ₁₀	PM ₁₀	PM ₁₀ PM ₂₅ (μg/m³) (μg/m	

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

Ms. M. Rout, Msc. Env. Sc. GAZEATTE OF SENATORY

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Report no. - CEMC/TDPCL/030619/A2

Issued Date-03.06.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-03062019A2
Nature of Sampling	Ambient Air Sample
Sampling Location	Kanakaprasad Village
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.05.2019 to 31.05.2019

Date	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO2 (µg/m3)	NOx (ug/m3)	CO (mg/m3)	NH3 (µg/m3)	03	Рb (µg/m3)	Ni (ng/m²)	As (ng/m²)	Веплепе	
02,05.2019	61.5	32.2	7.9	12.7	0.5	<20	<10	<0.06	(ng/m3) <0.6	(ug/m3) <0.44		
06.05.2019	36.2	22.4	7.1	11.2	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
09.05.2019	41.4	23.3	7.3	11.8	0.3	<20	<10	<0.06	<0.6	<0.44	<1 <1	<1
13.05.2019	58.1	31.6	8.2	12.1	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
16.05,2019	61.7	33.5	8.7	12.6	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
20.05.2019	63.3	34.1	8.8	12.9	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<u><1</u>
23.05.2019	62.8	33.9	8.5	12.4	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
27.05.2019	63.2	34.3	8.9	12.8	0.5	<20	<10	< 0.06	<0.6	<0.44		<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)		IS: 5182		IS: 5182 (Part-10)			1 1 1 2 2 2 1	method		IS: 5182 (Part-11)	

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

Ms. M. Rout, Msc. Env. Sc.
Gazette de la Significa de 2016
Notes:

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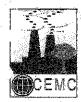
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Report no. - CEMC/TDPCL/030619/A3

Issued Date-03.06.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak							
Work Order No.	4800035134, dtd-30.07.2018							
Reference No.	CEMC-03062019A3							
Nature of Sampling	Ambient Air Sample							
Sampling Location	Near BMH							
Sampling By	Mr. Chandan Kumar & Mr. Bhaktahari Dash							
Sampling Duration	01.05.2019 to 31.05.2019							

Date	PM _{1θ} (μg/m ³)	PM _{2.5} (μg/m³)	SO ₂ (µg/m ³)	NOx (μg/m³)	CO (mg/m³)	NH ₃ (μg/m ³)	O ₃ (µg/m ³)	Pb (μg/m³)	Ni (ng/m³)	As (ng/m³)	Benzene (µg/m³)	BaP (ng/m³)
02.05.2019	65.3	35.7	8.6	14.4	0.6	<20	<10	< 0.06	<0.6	< 0.44	<1	<1
06.05.2019	41.2	24.5	8.0	12.3	0.4	<20	<10	<0.06	<0.6	< 0.44	<1	<i< td=""></i<>
09.05.2019	52.7	30.8	8.1	13.2	0.4	<20	<10	<0.06	<0.6	< 0.44	<1	<1
13.05.2019	61.5	33.1	8,2	13.4	0.5	<20	<10	< 0.06	<0.6	< 0.44	<1	<1
16.05.2019	63.8	33.9	8.4	14.1	0.6	<20	<10	<0.06	<0.6	< 0.44	<1	<1
20.05,2019	61.9	33.1	8,3	13.8	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
23.05.2019	64.6	35.3	8.8	14.1	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
27.05.2019	63.4	34.5	8.7	13.9	0.5	<20	<10	<0,06	<0.6	< 0.44	<1	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	ī
Methods of Analysis	IS: 5182 (Part-23)	e nor	IS: 5182	IS: 5182 (Part-6)	(Part-	Method	IS: 5182	IS: 5182 (Part-22)			IS: 5182 (Part-11)	IS: 5182 (Part- 12)

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

Ms. M. Rout Msc Env. Sc Mort And WST Notes 1031357. Dt-03-06-2016

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Report no. - CEMC/TDPCL/030619/A4

Issued Date-03.06.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-03062019A4
Nature of Sampling	Ambient Air Sample
Sampling Location	Near Jetty
Sampling By	Mr. Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.05.2019 to 31.05.2019

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (μg/m³)	SO ₂ (µg/m³)	NOx (µg/m³)	CO (mg/m³)	NH ₃ (μg/m ³)	Ο ₃	Pb (µg/m³)	Ni (ng/m³)	As (ng/m³	Benzene (µg/m³)	BaP (ng/m³)
02.05.2019	73.2	37.4	9.2	14.7	0,6	<20	<10	<0.06	<0.6	<0.44	<1	-7
06.05.2019	43.4	24.5	8.1	13.2	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1 <1
09.05.2019	49.3	27.2	8.3	13.4	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
13.05.2019	58.6	32.3	8.4	13.6	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
16.05.2019	64.8	34.6	8.7	14.1	0.6	<20	<10	<0.06	<0.6	<0.44	<1	<1
20.05.2019	69.1	36.1	8.8	14.2	0.6	<20	<10	<0.06	<0.6	<0.44	<1	
23.05.2019	72.5	36.9	9.0	14.4	0.6	<20	<10	<0.06	<0.6	<0.44	<1	<u> </u>
27.05.2019	70.7	35.7	8.7	14.0	0.5	<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	IS: 5182 (Part-6)	Marie 10		IS: 5182	IS: 5182 (Part-22)	C. 11	اید	13: 5182 (Part-	IS: 5182 (Part- 12)

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

Ms. M. Rout, Msc. Env. Sc. AN COMPATIONS (GAZEAT) 103-06-2016 s: 01-03-06-2016 Notes:

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Report no. - CEMC/TDPCL/030619/A5

Issued Date-03.06.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07,2018
Reference No.	CEMC-03062019A5
Nature of Sampling	Ambient Air Sample
Sampling Location	Dosinga Village
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.05.2019 to 31.05.2019

Date	РМ ₁₀ (µg/m³)	PM _{2.5} (μg/m ³)	SO ₂ (µg/m³)	NOx (µg/m³)	CO (mg/m³)	NH ₃ (μg/m ³)	О ₃ (µg/m³)	Pb (µg/m³)	Ni (ng/m³)	As (ng/m³)	Benzene (µg/m³)	BaP (ng/m³
02.05.2019	59.6	32.8	7.5	13.4	0.4	<20	<10	<0.06	<0.6	<0.44	<1)
06.05.2019	38.4	20.3	6.8	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<u> </u>
09.05.2019	43.2	26.6	7.0	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
13.05.2019	50.5	29.4	7.8	13.2	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
16.05.2019	60.8	32.9	7.9	13.5	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
20.05.2019	62.7	33.2	8.3	13.7	0.5	<20	<10	< 0.06	<0.6	<0.44	<1	<1
23.05.2019	61.2	33.1	7.7	13.6	0.4	<20	<10	< 0.06	<0.6	<0.44	<1	<1
27.05.2019	60.9	32.7	8.1	13.3	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	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nois Blue Method followed by CPCB	IS: 5182	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.

Ms. M. Rout Msc Env. Sc GRECONARYST GAZETTENIZASSE DI-03-06-2016 Notes:

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Report no. - CEMC/TDPCL/030619/A6

Issued Date-03.06,2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-03062019A6
Nature of Sampling	Ambient Air Sample
Sampling Location	Bhitarkanika (Eco Sensitive)
Sampling By	Mr. Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.05.2019 to 31.05.2019

Date	РМ ₁₀ (µg/m ³)	PM _{2.5} (μg/m³)	SO ₂ (µg/m ³)	NOx (µg/m³)	CO (mg/m³)	NH ₃ (μg/m³)	O ₃ (µg/m³)	Pb (μg/m³)	Ni (ng/m³)	As (ng/m³)	Benzene (µg/m³)	BaP (ng/m³
02.05.2019	51.8	28.1	7.1	10.8	0.4	<20	<10	<0.06	-0.6	-0.44		
06.05.2019	31.1	17.3	6.2	9.2	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
09.05.2019	40.9	20.7	6.2	9.1	0.3	<20	<10	<0.06	<0.6 <0.6	<0.44	<1	<1
13.05.2019	49.5	27.2	6.5	9.7	0.4	<20	<10	<0.06	<0.6	<0.44	<1.	<1
16.05.2019	48.7	27.0	6.3	10.0	0.4	<20	<10	<0.06	<0.6	<0.44 <0.44	<1	<1
20.05.2019	50.2	27.5	6.6	10.1	0.4	<20	<10	<0.06	<0.6		<1	<1
23.05.2019	52.3	28.4	6.8	10.4	0.4	<20	<10	<0.06		<0.44	<1	<1
27.05.2019	51.6	27.9	6.4	10.2	0.3	<20	<10	<0.06	<0.6	<0.44	<u><1</u>	<1
NAAQ Standard	100	60	80	80	4	400	100	1.0	20	<0.44 6	<u><1</u> 5	< <u>1</u>
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetri c Method as per CPCB method	IS: 5182	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nol Blue Method followed by CPCB	IS: 5182	IS: 5182 (Part-22)	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.

Ms. M. Reut, Msc. Env. Sc GRAL ANALAST Notes: Notes: 03-06-2016

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Report no. - CEMC/TDPCL/030619/N

Issued Date-03.06,2019

NOISE LEVEL MONITORING REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Analysis No.	CEMC/TDPCL-D00N1
Nature of Sampling	Noise Sample
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Date	01.05.2019 to 31.05.2019

Date	Location	NL I	ay Time dl	NL Night Time dB (A)			
		Max	Min.	Avg.	Max.	Min.	Avg.
07.05.2019	Near Jetty (I)	72.8	64.4	68.6	67.9	62.1	65.0
10.05,2019	Near BMH-1	72.9	65.3	69.1	68.4	61.8	65.1
14.05,2019	Colony Area (R)	53.5	51.7	52.6	43.4	39.8	41.6
17.05.2019	Kanakaprasad Village (R)	53.2	50.6	51,9	43.7	40.3	42.0
21.05.2019	Dosinga village (R)	54.6	51.8	53.2	43.1	40.5	41.8
28.05.2019	Ecosensitive Zone	51.4	48.2	49.8	41.6	39.2	40.4

^{*}NL-Noise Level, I-Industrial, R-Residential

National Standard of Noise Level

Area	Category of Area/Zone	* Permissible Limit in dB (A)				
Code	Category of Artea/2000e	Day Time	Night Time			
A	Industrial Area	75	70			
В	Commercial Area	65	55			
C.	Residential Area	55	45			
D	Silence Zone	50	40			

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Environmental

Ms. M. Rout, Msc. Env. Sc.

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Notes:

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Report no. - CEMC/TDPCL/030619/W1

Issued Date-03.06.2019

STP TEST REPORT

Name & Address of the Customer

Work order No.
Sampling by
Date of Sampling
Date of Receiving
Sampling & Testing Procedure
Sample Description
Sample Quantity

Sample Location with Job Code Reference Number : M/s. The Dhamra Port Company Ltd., Dosinga,

Bhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 04.05.2019 & 24.05.2019

: 06.05.2019 & 25.05.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 15 KLD (Inlet)

: CEMC-03062019W1

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STP INLET ANALYSIS RESULT

SI.		Unit of	Re	sult	70.
No.	Parameter	Measurement	1 st Fortnight	2 nd Fortnight	Design parameter for Raw Sewage
1.	Appearance		Turbid	Turbid	-
2	Colour		Blackish	Blackish	
3	Odour		Foul	Foul	**
4	pH Value @ 25°C		6.51	6.84	6.0-8.5
5	Total Suspended Solids	mg/l	112.5	124.7	1000
6	B.O.D for 3 days @ 27°C	mg/l	160	188	300-350
7	Oîl & Grease	mg/l	6.8	7.9	100
8	COD	mg/l	510	550	-
9	Ammonical Nitrogen	mg/l	7.7	8,3	
10	Total Nitrogen	mg/l	34,1	38.6	-
11	Faecal Coliform	MPN/100ml	>1600	>1600	

Ms. M. Rout Msc. Env. Sc.

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Report no. - CEMC/TDPCL/030619/W2

Issued Date-03.06.2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by Date of Sampling Date of Receiving Sampling & Testing Procedure Sample Description Sample Quantity Sample Location with Job Code

Reference Number

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

: 4800035134, dtd-30.07.2018 : Mr. Bhaktahari Dash

:04.05.2019 & 24.05.2019

: 06.05.2019 & 25.05.2019 : APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 15 KLD (Outlet)

: CEMC-03062019W2

STP OUTLET ANALYSIS RESULT

SI.		Unit of	Res	sult	54 1 1 1 1
No.	Parameter	Measurement	1 st Fortnight	2 nd Fortnight	Standards for New STPs Design after notification 2015
1	Appearance	, ini	Clear	Clear	-
2	Colour		Colorless	Colorless	_
3	Odour		Odourless	Odourless	-
4	pH Value @ 25°C	<u></u> .	7.08	7.16	6.5-9.0
5	Total Suspended Solids	mg/l	13.9	16.4	<20
6	B.O.D for 3 days @ 27°C	mg/l	9.2	9.6	<10
7	Oil & Grease	mg/l	<5	<5	
8	COD	mg/l	28	32	<50
9	Ammonical Nitrogen	mg/l	1,3	1.4	<5
10	Total Nitrogen	mg/l	5.4	6.8	<10
11	Faecal Coliform	MPN/100ml	17	22	<100

Ms. M. Rout, Msc. Env. Sc GON WOUNDERST

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Report no. - CEMC/TDPCL/030619/W3

Issued Date-03.06.2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by Date of Sampling Date of Receiving Sampling & Testing Procedure Sample Description Sample Quantity Sample Location with Job Code Reference Number

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

Bhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 04.05.2019 & 24.05.2019

: 06.05.2019 & 25.05.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 140 KLD (Inlet)

: CEMC-03062019W3

STP INLET ANALYSIS RESULT

Sl.		Unit of	Re	sult	70
No.	Parameter	Measurement	1st Fortnight	2nd Fortnight	Design parameter for Raw Sewage
1	Appearance		Turbid	Turbid	. =
2	Colour		Blackish	Blackish	=
3	Odour		Foul	Foul	_
4	pH Value @ 25°C		6.02	6.34	6.0-8.5
5	Total Suspended Solids	mg/l	131.4	147.2	1000
6	B.O.D for 3 days @ 27°C	mg/l	200	230	300-350
7	Oil & Grease	mg/l	6.3	7.8	100
8	COD	mg/l	560	640	
9	Ammonical Nitrogen	mg/l	4.1	4.9	
10	Total Nitrogen	mg/l	32.1	36.7	
11	Faecal Coliform	MPN/100ml	>1600	>1600	-

Ms. M. Rout, Msc. Env. Sc GNIDAKAISEST TENESSSEDIOS.06-2016

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Report no. - CEMC/TDPCL/030619/W4

Issued Date-03.06,2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by Date of Sampling Date of Receiving Sampling & Testing Procedure Sample Description Sample Quantity

Sample Location with Job Code Reference Number

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

Bhadrak : 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 04.05.2019 & 24.05.2019

: 06.05.2019 & 25.05.2019 : APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 140 KLD (Outlet)

: CEMC-03062019W4

STP OUTLET ANALYSIS RESULT

SI.		Unit of	Res	sult	
No.	Parameter	Measurement	1 st Fortnight	2 nd Fortnight	Standards for New STPs Design after notification 2015
1	Appearance		Clear	Clear	-
2	Colour	_	Colorless	Colorless	-
3	Odour	<u>-</u> -	Odourless	Odourless	
4	pH Value @ 25°C		7,13	7.28	6.5-9.0
5	Total Suspended Solids	mg/l	14.2	16.9	<20
6	B.O.D for 3 days @ 27°C	mg/l	9.2	9.8	<10
7	Oil & Grease	mg/l	<5	<5	
8	COD	mg/l	32	45	<50
9	Ammonical Nitrogen	mg/I	1.2	1.8	<5
10	Total Nitrogen	mg/l	5.4	6.5	<10
11	Faecal Coliform	MPN/100ml	17	22	<100

Ms. M. Rout, Msc. Env. Sc. IGAZETTE Noz +55 18 19 93 06-2016 Notes:

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Report no. - CEMC/TDPCL/010719/A1

Issued Date-01.07.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

	
Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07,2018
Reference No.	CEMC-01072019A1
Nature of Sampling	Ambient Air Sample
Sampling Location	Colony Area
Sampling By	Mr.Chaudan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.06.2019 to 30.06.2019

ANALYSIS RESULT PM25 SO₂ NH₃ PM₁₀ NOx CO 0, Pb Benzene Ni As RaP Date (µg/m³ (ng/m³) ug/m³ (µg/m³) (µg/m³) (ug/m³) (μg/m³) (mg/m^3) (µg/m³ (ng/m^3) (μg/m³) (ng/m^3) 03.06.2019 63.4 34.7 8.0 13.1 0.5 <20 <10 < 0.06 < 0.6 < 0.44<1 06.06.2019 <0.6 61.8 33,2 7.8 12.8 <20 <10 < 0.06 < 0.44 <1 0.4 10.06,2019 34.8 63.6 8.1 13.2 0.5 <20 <10 < 0.06 < 0.6 < 0.44 <1 <1 13.06.2019 7.7 60.9 32.6 13.0 0.4 <20 <10 < 0.06 <0.6 < 0.44 <1 <1 17.06.2019 33.4 7.9 < 0.44 61.3 <20 <10 < <1 13.1 0.4 < 0.06 <0.6 20.06.2019 62.7 34.0 < 0.44 <1 8.0 13.3 0.5 <20 <10 < 0.06 < 0.6 <] 56.5 24,06,2019 30.5 7.9 <10 < 0.44 <1 12.9 0.4 <20 <0.06 < 0.6 <1 < 0.44 27.06.2019 51.5 29.7 0.4 <1 8.1 12.1 <20 <10 < 0.06 < 0.6 <1 NAAO* 60 80 400 7 20 4 100 Ĭ 1.0 20 Standard Indophenol As per As per IS: 5182 IS: 5182 Gravimetric IS: 5182 **CPCB** IS: 5182 **CPCB** IS: 5182 IS: 5182 Blue Methods of Method as IS: 5182 IS: 5182 (Part-(Part-(Part-(Part-Method method method (Partper CPCB Analysis (Part-2) (Part-6) (Part-9) 12) 23) 10) followed by 22) followed followed 11) method **CPCB** by AAS by AAS

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

Dr.T. S. D. JOHO, Env. Sc

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Report no. - CEMC/TDPCL/010719/A2

Issued Date-01.07.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

4	Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
	Work Order No.	4800035134, dtd-30.07.2018
•	Reference No.	CEMC-01072019A2
_	Nature of Sampling	Ambient Air Sample
€	Sampling Location	Kanakaprasad Village
	Sampling By	Mr.Chandan Kumar & Mr. Bhaktabari Dash
4	Sampling Duration	01.06,2019 to 30.06,2019

Date	PM ₁₀ (μg/m³)	РМ _{2.5} (µg/m³)	SO2 (µg/m3)	NOx (µg/m3)	CO (mg/m3)	NH3 (μg/m3)	О3 (µg/m3)	Pb (µg/m3)	Ni (ng/m3)		Benzene (µg/m3)	BaP (ng/m3)
03.06.2019	59.6	34.3	7.8	12.9	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
06.06.2019	57.8	33.5	7.6	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
10.06.2019	58.1	33.9	7.9	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
13.06.2019	55.9	32.8	7.8	12.2	0.4	<20	<10	<0.06	<0.6	< 0.44	<1	<1
17.06.2019	59.4	34.6	7.4	12.8	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
20.06.2019	53.7	30.2	7.3	12.3	0.2	<20	<10	<0.06	<0.6	<0.44	<1	<1
24.06.2019	51.5	29.7	7.8	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
27,06,2019	53.5	31.4	7.7	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)		IS: 5182		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	į.	IS: 5182 (Part-11)	1 *

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

Or.T. Sabill Mr.D. Env. Sc Antibered Signing ST IGAZ Potest 100 V 37 DV-03-06-20161

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Report no. - CEMC/TDPCL/010719/A3

Issued Date-01.07.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30,07,2018
Reference No.	CEMC-01072019A3
Nature of Sampling	Ambient Air Sample
Sampling Location	Near BMH
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.06.2019 to 30.06.2019

Date	PM ₁₀ (µg/m³)	PM _{2.5} (μg/m³)	SO ₂ (µg/m ³)	NOx (µg/m³)	CO (mg/m³)	NH ₃ (μg/m ³)	Ο ₃ (μg/m³)	Pb (μg/m³)	Ni (ng/m³)	As (ng/m³)	Benzene (µg/m³)	BaP (ng/m³)
03.06.2019	68.5	36.7	8.5	14.6	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
06,06.2019	69.2	36.9	8.8	14.9	0,6	<20	<10	<0.06	<0.6	<0.44	<1	<1
10.06.2019	64.1	34.5	8.5	14.1	0.5	<20	<10	< 0.06	<0.6	<0.44	<1	<1
13.06.2019	60.8	32.4	8.1	13.8	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
17.06.2019	65.4	34.6	8.6	14.3	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
20.06.2019	63.8	32.8	8.7	14.0	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
24.06.2019	65.2	34.1	8.8	14.5	0.6	<20	<10	<0.06	<0.6	<0.44	<1	<1
27.06.2019	64.6	33.2	8.5	14.2	0.5	<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)	00 000	IS: 5182	IS: 5182 (Part-6)	IS: 5182	Method	IS: 5182	IS: 5182 (Part-22)			IS: 5182 (Part-11)	IS: 5182 (Part- 12)

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

JETY. SC

IGAZEMEE NO-1357, Dt-03 06-2016

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Report no. - CEMC/TDPCL/010719/A4

Issued Date-01.07.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01072019A4
Nature of Sampling	Ambient Air Sample
Sampling Location	Near Jetty
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.06.2019 to 30.06.2019

Date	PM ₁₀ (μg/m³)	PM _{2.5} (μg/m ³)	SO ₂ (µg/m³)	NOx (μg/m³)	CO (mg/m³)	NH ₃ (μg/m³)	Ο ₃ (μg/m ³)	Pb (μg/m³)	Ni (ng/m³)	As (ng/m³	Benzene (µg/m³)	
03.06,2019	75.1	40.3	8.8	14.8	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
06.06.2019	72.4	37.7	9,1	15.4	0.6	<20	<10	< 0.06	<0.6	<0.44	<1	<1
10.06.2019	70.5	36.8	8.7	14.6	0.5	<20	<10	<0,06	<0.6	< 0.44	<1	<1
13.06.2019	67.2	35.2	8.5	14.2	0,5	<20	<10	<0.06	<0.6	<0.44	<1	<1
17.06.2019	69.4	36.4	8.8	14.8	0.5	<20	<10	<0.06	<0.6	< 0.44	<1	<1
20.06.2019	73.4	38.1	9.2	15.4	0.6	<20	<10	<0.06	<0.6	< 0.44	<1	<1
24.06.2019	67.2	36.1	8.9	15.2	0.6	<20	<10	<0.06	<0.6	<0.44	<1	<1
27.06,2019	69.8	37.2	8.7	14.6	0.5	<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	IS: 5182 (Part-6)			IS: 5182	IS: 5182 (Part-22)		As per CPCB metho d followe d by AAS	IS: 5182	IS: 5182 (Part- 12)

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

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Report no. - CEMC/TDPCL/010719/A5

Issued Date-01.07.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01072019A5
Nature of Sampling	Ambient Air Sample
Sampling Location	Dosinga Village
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.06.2019 to 30.06.2019

	PM ₁₀	PM _{2.5}	SO ₂	NOx	CO	NH ₃	03	Pb	Ni	As	Benzene	
Date	(ng/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(mg/m³)	(µg/m³)	(hg/m³)	(µg/m³)	(ng/m³)	(ng/m³)	(µg/m³)	(ng/m³
03.06.2019	61.4	34.1	8.3	13.5	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<u> </u>
06.06,2019	59.2	32.5	8.0	13.2	0.4	<20	<10	<0.06	<0.6	<0.44		<1
10.06.2019	58.8	31.9	7.9	13.4	0.3	<20	<10	<0.06	<0.6	< 0.44	<1	<1
13.06.2019	60.6	33.6	8.2	13,3	0,5	<20	<10	<0.06	<0.6	<0.44	<1	<1
17.06.2019	57.3	31.3	8.3	13,5	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
20.06,2019	59.7	32.8	8,1	13.1	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
24,06.2019	60.9	33.7	8.2	13.3	0.5	<20	<10	<0.06	<0.6	< 0.44	<1	<1
27.06.2019	59.5	32.9	8.1	13.4	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)	Gravimetri c Method as per CPCB method				Indophe nois Blue Method followed by CPCB	IS: 5182	IS: 5182 (Part-22)			IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

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

Env. Sc OrTer Authoriza

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

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Report no. - CEMC/TDPCL/010719/A6

Issued Date-01.07.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01072019A6
Nature of Sampling	Ambient Air Sample
Sampling Location	Bhitarkanika (Eco Sensitive)
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.06.2019 to 30.06.2019

	PM ₁₀	PM _{2,5}	SO ₂	NOx	CO	NH ₃	O ₃	Pb	Ni	As	Benzene	BaP
Date	(µg/m³)	(µg/m³)	(μg/m³)	(hg/m³)	(mg/m³)	(µg/m³)	(µg/m³)	(hg/m³)	(ng/m³)	(ng/m³)	(μg/m³)	(us/m3
03.06.2019	47.9	23.9	6.9	11.1	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
06.06.2019	48.1	24.0	6.8	10.9	0.2	<20	<10	< 0.06	<0.6	<0.44	<1	<1
10.06.2019	49.0	24.7	6.5	11.2	0.3	<20	<10	<0.06	<0.6	< 0.44	<1	<1
13.06.2019	48.5	24.1	7.3	11.4	0.4	<20	<10	<0.06	<0.6	< 0.44	<1	<1
17,06.2019	46.8	23.2	7,4	11.2	0.3	<20	<10	<0.06	<0.6	<0.44	<[<1
20.06.2019	47.3	23.8	7.5	11.3	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
24.06.2019	48.7	24.4	6.7	10.8	0.3	<20	<10	<0.06	<0.6	< 0.44	<1	<1
27.06.2019	48.6	24.3	6.9	10.6	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	i
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetri c Method as per CPCB method	IS: 5182		IS: 5182 (Part-10)	Indophe nol Blue Method followed by CPCB	IS: 5182	IS: 5182 (Part-22)			\$ 1 SO 1 T	IS: 5182 (Part- 12)

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

Or.T. SPAL POD. Env. Sc Notes: 130 142.06-2016

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Report no. - CEMC/TDPCL/010719/N

Issued Date-01.07.2019

NOISE LEVEL MONITORING REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07,2018
Analysis No.	CEMC/TDPCL-D00N1
Nature of Sampling	Noise Sample
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Date	01,06,2019 to 30.06,2019

Date	Location	NL Day Time dB (A)			NL Night Time dB (A)		dB (A)
APACE	LOCATION	Max	Min.	Avg.	Max.	Min.	Avg.
04.06,2019	Near Jetty (I)	72.7	66.5	69.6	66.4	62.8	64.6
07.06.2019	Near BMH-1	71.5	65.1	68.3	65.3	61.5	63.4
11.06,2019	Colony Area (R)	54.8	52.4	53.6	44.5	40.1	42.3
14.06.2019	Kanakaprasad Village (R)	53.9	51,3	52.6	43.6	39.2	41.4
18.06.2019	Dosinga village (R)	54.7	52.1	53.4	44.2	39.4	41.8
21.06.2019	Ecosensitive Zone	50.8	45.4	48.1	40.1	37.3	38.7

^{*}NL- Noise Level, I- Industrial, R- Residential

National Standard of Noise Level

Area Code	Category of Area/Zone	Pacaletta I Day Time	Joseph in (III (A) Night Time
A	Industrial Area	75	70
В	Commercial Area	65	55
С	Residential Area	55	45
Ø	Silence Zone	50	40

Or.T. Salar, MAD. Env. Sc

(GAZETE No-1357, DI-03-06-2016)

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Report no. - CEMC/TDPCL/010719/W1

Issued Date-01.07.2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by Date of Sampling Date of Receiving

Sampling & Testing Procedure

Sample Description
Sample Quantity

Sample Location with Job Code

Reference Number

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

Bhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 05.06.2019 & 19.06.2019

: 06.06.2019 & 20.06.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 15 KLD (Inlet)

: CEMC-01072019W1

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STP INLET ANALYSIS RESULT

<u></u>		¥7.14.4	Res	gult	Davier news metar for Warn	
Sl. No.	Parameter	Unit of Measurement	1* Fortnight	2 nd Fortnight	Design parameter for Raw Sewage	
1	Appearance		Turbid	Turbid	-	
2	Colour	***	Blackish	Blackish		
3	Odour		Foul	Foul	-	
4	pH Value @ 25°C	***	6.67	6.72	6.0-8.5	
5	Total Suspended Solids	mg/l	143	134	1000	
6	B.O.D for 3 days @ 27°C	mg/l	180	190	300-350	
7	Oil & Grease	mg/l	7.5	7.8	100	
8	COD	mg/l	600	630	24-20	
9	Ammonical Nitrogen	mg/l	7.4	7,9	Water Control of the	
10	Total Nitrogen	mg/l	35.9	39.2	***	
11	Faecal Coliform	MPN/100ml	>1600	>1600		

Or.T. Sc. (100) Env. Sc. Anthonized Appropriate No. 1337 (0):08-06-2016

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Report no. - CEMC/TDPCL/010719/W2

Issued Date-01.07.2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by Date of Sampling Date of Receiving Sampling & Testing Procedure

Sample Description Sample Quantity

Sample Location with Job Code Reference Number

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

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 05.06.2019 & 19.06.2019

: 06.06.2019 & 20.06.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 15 KLD (Outlet)

: CEMC-01072019W2

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STP OUTLET ANALYSIS RESULT

SI.		NT .*4 - 4	Res	ult	ETA Y Y A TAY - COMPA
No.	Parameter	Unit of Measurement	1 st Fortnight	2 nd Fortnight	Standards for New STPs Design after notification 2015
1	Appearance	.=-	Clear	Clear	-
2	Colour	-	Colorless	Colorless	-
3	Odour		Odourless	Odourless	
4	pH Value @ 25°C		7.42	7.59	6.5-9.0
5	Total Suspended Solids	mg/l	14.8	16.3	<20
6	B.O.D for 3 days @ 27°C	mg/l	9.4	9.6	<10
7	Oil & Grease	mg/l	<5	<5	
8	COD	mg/l	28	32	<50
9	Ammonical Nitrogen	mg/l	1.1	1.3	<5
10	Total Nitrogen	mg/l	5.7	6.2	<10
11	Faecal Coliform	MPN/100ml	17	22	<100

(R&D. Env. Sc

ical of Laboratory GAZENTE No. 1357. Dr. 08-06-2016

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Report no. - CEMC/TDPCL/010719/W3

Issued Date-01.07.2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by **Date of Sampling** Date of Receiving

Sampling & Testing Procedure

Sample Description Sample Quantity

Sample Location with Job Code

Reference Number

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

Bhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 05.06,2019 & 19.06,2019

: 06.06.2019 & 20.06.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 140 KLD (Inlet)

: CEMC-01072019W3

STP INLET ANALYSIS RESULT

EIN		¥T -*4 -Æ	Re	swit	Danian management for Plans
SI. No.	Parameter	Unit of Measurement	1st Fortnight	2nd Fortnight	Design parameter for Raw Sewage
I	Appearance		Turbid	Turbid	
2	Colour		Blackish	Blackish	*
3	Odour		Foul	Foul	-
4	pH Value @ 25°C		6.69	6.78	6.0-8.5
5	Total Suspended Solids	mg/l	161.4	148.5	1000
6	B.O.D for 3 days @ 27°C	mg/l	220	200	300-350
7	Oil & Grease	mg/l	7.4	6.9	100
8	COD	mg/l	650	610	
9	Ammonical Nitrogen	mg/l	8.2	6.7	***
10	Total Nitrogen	mg/l	41.6	35.9	
11	Faecal Coliform	MPN/100ml	>1600	>1600	

Dr.T. Sebre Php. Env. Sc Authorized (GAMESTE NO-1117) 1/01-06-2016

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Report no. - CEMC/TDPCL/010719/W4

Issued Date-01.07.2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by Date of Sampling Date of Receiving Sampling & Testing Procedure Sample Description Sample Quantity Sample Location with Job Code Reference Number

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

Rhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 05.06.2019 & 19.06.2019

: 06.06.2019 & 20.06.2019

: APHA 23rd Edition : Waste Water

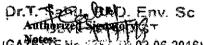
: 1.0 Ltr each

: STP - 140 KLD (Outlet)

: CEMC-01072019W4

STP OUTLET ANALYSIS RESULT

SI.		Unit of	Res	sult	Crack A Comp
No.	Parameter	Measurement	1 st Fortnight	2 nd Fortnight	Standards for New STPs Design after notification 2015
1	Appearance	<u> </u>	Clear	Clear	_
2	Colour		Colorless	Colorless	•
3	Odour		Odourless	Odourless	
4	pH Value @ 25°C	••	7.52	7.61	6.5-9.0
5	Total Suspended Solids	mg/l	16.2	15.7	<20
6	B.O.D for 3 days @ 27°C	mg/l	9.8	9.6	<10
7	Oil & Grease	mg/l	<5	<5	-
8	COD	mg/l	42	40	<50
9	Ammonical Nitrogen	mg/l	1.6	1.3	<5
10	Total Nitrogen	mg/l	6.7	6.1	<10
11	Faecal Coliform	MPN/100ml	34	22	<100



IGAZETE NO. 33-06-2016\
The result given above related to the tested sample, a reserved. The outsteam asked for the above test only.

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Report no. - CEMC/TDPCL/010719/St1

Issued Date-01.07.2019

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01072019St1
Nature of Sampling	DG Stack Monitoring
Sampling Location	GSS DG Set (200KVA) 160KW-hr
Sampling By	Mr. B.K.Samantray
Sampling Date	13.06.2019

ANALYSIS RESULT

SI. No.	Parameters	Result	Standard as per MoEF & CC in g/kW-hr (2014)	Method of Testing
1.	Flue Gas Temp.(K)	405	-	IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	8.9		IS:11255 (Part-3
3.	PM (g/kwh)	0.12	0.2	IS:11255 (Part-1)
4.	SO ₂ (g/kwh)	0		IS:11255 (Part-2)
5.	NO _x +HC (g/kwh)	2.5	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. Sakudos Env. Sc.

+GAZNOGE No-1357 Dt-03-06-20161

The results relate only to the sample tested

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Report no. - CEMC/TDPCL/010719/St2

Issued Date-01.07.2019

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01072019St2
Nature of Sampling	DG Stack Monitoring
Sampling Location	Kalibhanja Guest House DG Set (63KVA) 50KW-hr
Sampling By	Mr. B.K.Samantray
Sampling Date	13.06.2019

ANALYSIS RESULT

SI. No.	Parameters	Result	Standard as per MoEF & CC in g/kW-hr (2014)	Method of Testing
1.	Flue Gas Temp.(K)	398		IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	7.8		IS:11255 (Part-3
3.	PM (g/kwh)	0.14	0.3	IS:11255 (Part-1)
4.	SO ₂ (g/kwb)	0		IS:11255 (Part-2)
5.	NO _x +HC (g/kwh)	2.7	4.7	IS:11255 (Part-7)
6.	CO (g/kwh)	1.3	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)

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Report no. - CEMC/TDPCL/010719/St3

Issued Date-01.07.2019

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01072019St3
Nature of Sampling	DG Stack Monitoring
Sampling Location	Township DG Set (180KVA) 144KW-hr
Sampling By	Mr. B.K.Samantray
Sampling Date	13.06,2019

ANALYSIS RESULT

SI. No.	Parameters	Result	Standard as per MoEF & CC (2014)	Method of Testing
1.	Flue Gas Temp.(K)	403	***	IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	7.7		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)	2.1	4.0	IS:11255 (Part-7)
6.	CO (g/kwh)	1.4	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)

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Report no. - CEMC/TDPCL/010719/St4

Issued Date-01.07.2019

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01072019St4
Nature of Sampling	DG Stack Monitoring
Sampling Location	MCC-1 (160KVA) 128 KW-hr
Sampling By	Mr. B.K.Samantray
Sampling Date	13.06.2019

ANALYSIS RESULT

SI. No.	Parameters	Result	Standard as per MoEF & CC (2014)	Method of Testing
1.	Flue Gas Temp.(K)	409		IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	8.3	***	IS:11255 (Part-3
3.	PM (g/kwb)	0.13	0.2	IS:11255 (Part-1)
4.	SO ₂ (g/kwh)	0		IS:11255 (Part-2)
5.	NO _x +HC (g/kwh)	2.4	4.0	IS:11255 (Part-7)
6.	CO (g/kwh)	1,5	3.5	IS: 13270

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

installed, KVA = Total generator capacity of the SM IN FA

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Report no. - CEMC/TDPCL/010719/St5

Issued Date-01.07.2019

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01072019St5
Nature of Sampling	DG Stack Monitoring
Sampling Location	PSS DG Set (160KVA) 128 KW-hr
Sampling By	Mr. B.K.Samantray
Sampling Date	13.06.2019

ANALYSIS RESULT

SL No.	Parameters	Result	Standard as per MoEF & CC (2014)	Method of Testing
1.	Flue Gas Temp.(K)	405		IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	8.1	_	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 +EIC (g/kwh)	2,3	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)

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Report no. - CEMC/TDPCL/010719/St6

Issued Date-01.07.2019

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01072019St6
Nature of Sampling	DG Stack Monitoring
Sampling Location	MCC-4 (160KVA) 128 KW-hr
Sampling By	Mr. B.K.Samantray
Sampling Date	13.06,2019

ANALYSIS RESULT

St. No.	Parameters	Result	Standard as per MoEF& CC (2014)	Method of Testing
1.	Flue Gas Temp.(K)	411	_	IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	7.8	-	IS:11255 (Part-3
3.	PM (g/kwh)	0.12	0.2	IS:11255 (Part-1)
4.	SO ₂ (g/kwh)	0		IS:11255 (Part-2)
5.	NO _x +HC (g/kwh)	2.4	4.0	IS:11255 (Part-7)
6.	CO (g/kwh)	1.3	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)

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Report no. - CEMC/TDPCL/010719/St7

Issued Date-01.07.2019

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01072019St7
Nature of Sampling	DG Stack Monitoring
Sampling Location	DAV School ,Kuamara (100KVA) 80KW-hr
Sampling By	Mr. B.K.Samantray
Sampling Date	13.06,2019

ANALYSIS RESULT

SI. No.	Parameters	Result	Standard as per MoEF& CC (2014)	Method of Testing
Į.	Flue Gas Temp.(K)	394		IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	7.5		IS:11255 (Part-3
3.	PM (g/kwb)	0.11	0.2	IS:11255 (Part-1)
4.	SO ₂ (g/kwh)	0	_	IS:11255 (Part-2)
5.	NO _z +HC (g/kwb)	2.6	4.0	IS:11255 (Part-7)
6.	CO (g/kwh)	1.5	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)

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Report no. - CEMC/TDPCL/010719/N

Issued Date-01.07.2019

DG NOISE LEVEL MONITORING REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Analysis No.	CEMC/TDPCL-D00N
Nature of Sampling	Noise Sample
Sampling By	Mr. B.K.Samantray
Monitoring Date	13.06.2019

77 . 4		NL Day Time dB (A)			NL Night Time dB (A)		
Date	Location	Max	Min.	Avg.	Max.	Min.	Avg.
13.06,2019	GSS DG Set (200KVA)	74,9	71.5	73.2	69.8	67.4	68.6
13.06.2019	Kalibhanja Guest House DG Set (63KVA)	75.1	70.3	72.7	68.7	66.9	67.8
13.06.2019	Township DG Set (180KVA)	74.7	71.1	72.9	69.5	67.3	68.4
13.06.2019	MCC-1 (160KVA)	74.8	71.4	73.1	69.8	66.4	68.1
13.06.2019	PSS DG Set (160KVA)	74.7	71.5	73.1	69.1	66.3	67.7
13.06.2019	MCC-4 DG Set (160KVA)	74.4	70.8	72.6	69.3	66.7	68.0

^{*}NL- Noise Level, I- Industrial, R- Residential

National Standard of Noise Level

Area Code	Category of Area/Zone	November 13 Day Time	Night Time
A	Industrial Area	75	70
В	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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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/020719/W

Issued Date-02.07.2019

SEA WATER ANALYSIS REPORT

Name & Address of the Customer

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

Bhadrak : 4800035134, dtd-30.07.2018

: 14.06.2019

: Bikash Samantaray & Santosh Mohanty

: Sea Water

Sampling by Sample Description

Work order No. Date of Sampling

STATION DESCRIPTION

SL. NO.	STATION	Sample Location	GPS COORDINATES
01	STATION-I	Dhamra river mouth	20°47'05.62" N
O II	31411011-1	EJIRITA HVEI MOULI	86°57'45.11" E
02	STATION-2	Dry bulk cargo birth face	20°49'01.63" N
02	51/1110142	Day out cargo of the tace	86°58'12.82" E
03	STATION-3	Liquid/Gas cargo birth face	20°50'36.46" N
V-	DIRECTOR-3	Lajara Cas Casgo on in face	86°58'22.81" E
04	STATION-4	Along channel at 4 km	20°50'23.43" N
	JANA KOLIVIT	AROUG QUALITY AND	86°59'23.26" E
05	STATION-5	Along channel at 8 km	20°52'41.52" N
	032333011-3	Thong ondinos at o kin	87°01'12.76" E
06	STATION-6	Along channel at 12 km	20°55'23.39 N
-	542141011-0	7310 the continue of 12 km	87°02'23.01" E
07	STATION-7	Dragging dumping site inside sea	20°50'23.12" N
· · ·	GIZZZZOI	Dragging dumping and maide sea	86°58'03.52" E
08	STATION-8	Near Kanika Island	20°49'08.62" N
	J11111011-0	Bildica Delinera and a	86°59°23.03" 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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Report no. - CEMC/TDPCL/020719/W

Issued Date-02.07.2019

SEA WATER ANALYSIS REPORT

			W	ATER ANALYSIS	DATA				
Locatio	n s	Temp. (°C)	Turbidity (NTU)	Conductivity (µS/cm)	ρН	Salinity . (ppt)	DO (mg/l)	BOD (mg/l)	COD (mg/l)
Station-I	SW	26	60	10478.6	7.8	26.62	7.1	4.2	36
Station-1	BW	22	30	10896.6	7.3	28,34	6.8	3.4	28
Station-2	SW	27	48	15744.2	8.1	2868	7.1	4.6	50
Station-2	BW	23	56	16178.6	7.5	2956	6.5	4.3	36
Station-3	SW	26	54	/ 16054.5	8.2	2642	6.9	4.2	48
Station-3	BW	23	60	16383.0	7.6	28/48	6.3	3.6	32
Station-4	SW	27	20	14561.2	7.7	26.84	7.5	4.2	44
Station-+	BW	23	34	15083.8	7.4	28,42	6.5	3.8	42
Station-5	SW	27	38	15489.7	7.7	27.64	7.3	3.8	44
Station-3	BW	23	52	15511.0	7.5	29.56	6.5	3.2	36
Station-6	SW	26	8	10302.8	7.9	27.28	7.3	3,6	28
Station-0	BW	22	20	10585,2	7.7	29,48	6.6	3.1	20
Station-7	SW	27	40	12521.0	8.1	27,84	6.9	4.1	42
Station-/	BW	23	80	13742.5	7.5	29.7	6.5	4.6	24
Station-8	SW	27	60	15595,1	8.2	2748	6.7	4.6	50
SIBUUT-0	BW	23	70	15916.6	7.5	2906	6.2	4.2	34

^{*}SW= Surface Water, BW= Bottom Water

			1	WATER ANA	LYSIS DATA				
Locatio	ns	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	1420	0.24	7.2	246
Death-1	BW	< 0.03	< 0.01	< 0.001	< 0.05	1680	0.3	12,7	460
Station-2	SW	< 0.03	< 0.01	< 0.001	< 0.05	1710	0.24	7.2	380
	BW	< 0.03	< 0.01	< 0.001	< 0.05	1824	0.3	14.6	464
Station-3	SW	< 0.03	< 0.01	< 0.001	< 0.05	1698	0.28	8.6	320
Station-3	BW	< 0.03	< 0.01	< 0.001	< 0.05	1788	0.31	13.9	398
Station-4	SW	< 0.03	< 0.01	< 0.001	< 0.05	1728	0.26	9.8	124
Station-4	BW	< 0.03	< 0.01	< 0.001	< 0.05	1854	0.33	138	498
Station-5	SW	< 0.03	< 0.01	< 0.001	< 0.05	1844	0.28	9.2	260
SKAUOU-S	BW	< 0.03	< 0.01	< 0.001	< 0.05	1872	0.31	13.8	610
Station-6	SW	< 0.03	< 0.01	< 0.001	< 0.05	1884	0.28	8.6	256
Stanon-o	BW	< 0.03	< 0.01	< 0.001	< 0.05	1972	0.36	14.2	486
Station-7	SW	< 0.03	< 0.01	< 0.001	< 0.05	1798	0.32	9.2	164
DeathOll-1	BW	< 0.03	< 0.01	< 0.001	< 0.05	1884	0.38	15.2	424
Station-8	SW	< 0.03	< 0.01	< 0.001	< 0.05	1692	0.26	9,4	286
OFBRUOE-0	BW	< 0.03	< 0.01	< 0.001	< 0.05	1810	0.34	14.4	420

^{*}SW= Surface Water, BW= Bottom Water

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			W.	ATER ANALY:	SIS DATA		
Locatio	ns	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)
G1-2:1	SW	1782.0	989,0	2771.0	6098.0	ND	11.8
Station-1	BW	1856.0	1042.0	2898.0	6312.0	ND	14.6
See 2	SW	3842.0	1820.0	5662.0	9142.0	ND	13.6
Station-2	BW	4060.0	1890.0	5950.0	9348.0	ND	15.8
5. 4. 5	SW	4092.0	1784.0	5876.0	9334.0	ND	13.2
Station-3	BW	4460.0	1886.0	6346.0	9525.0	ND	14.8
G	SW	3640.0	1564.0	5204.0	\$46 0.0	ND ·	12.9
Station-4	BW	3890.0	1648.0	5538.0	8758.0	ND	14.6
0-4	SW	3998.0	1824.0	5822.0	8994.0	ND	13.8
Station-5	BW	3968.0	1784.0	5752.0	9018.0	ND	15.9
Grant - C	SW	1740.0	968.0	2708.0	5990.0	ND	10.6
Station-6	BW	1790.0	1078.0	2868.0	6160.0	ND	12.8
0	SW	2660.0	1160.0	3820.0	7268.0	ND	12.2
Station-7	BW	2780.0	1280.0	4060.0	7984.0	ND	15.6
0	SW	3780.0	1460.0	5240.0	9064.0	ND	13.4
Station-8	BW	3984.0	1510.0	5494.0	9248.0	ND	15.2

^{*}SW= Surface Water, BW= Bottom Water

<i>7</i> 1-	· ··· 1 ····		WATER	RANALYSIS DAT	Î A		
Locatio	ms	Total Chromium (mg/j)	Phenolic Compounds (mg/l)	Hexavalent Chromium (mg/l)	Petroleum Hydrocarbon (mg/l)	Chlorinity (%)	Oil and Grease (mg/l)
Service 1	SW	< 0.05	< 0.001	< 0.05	0.3	12.42	4.2
Station-1	BW	< 0.05	< 0.001	< 0.05	ND	13.78	ND
G	SW	< 0.05	< 0.001	< 0.05	0.6	12.28	6.6
Station-2	BW	< 0.05	< 0.001	< 0.05	ND	14.58	ND
A	SW	< 0.05	< 0.001	< 0.05	0.6	12.92	5.6
Station-3	BW	< 0.05	< 0.001	< 0.05	ND	14.64	ND
6 0	SW	< 0.05	< 0.001	< 0.05	0.7	13.88	5.9
Station-4	BW	< 0.05	< 0.001	< 0.05	ND	15.64	ND
27	SW	< 0.05	< 0.001	< 0.05	0.7	13.24	5.4
Station-5	BW	< 0.05	< 0.001	< 0.05	ND	14.78	ND
~ · · ·	SW	< 0.05	< 0.001	< 0.05	0.6	12.94	3.5
Station-6	BW	< 0.05	< 0.001	< 0.05	ND	14.42	ND
~ .	SW	< 0.05	< 0.001	< 0.05	0,2	13.56	6.9
Station-7	BW	< 0.05	< 0.001	< 0.05	ND	14.12	ND
A A	SW	< 0.05	< 0.001	< 0.05	0.8	13.98	7.1
Station-8	BW	< 0.05	< 0.001	< 0.05	ND	15.14	ND

^{*}SW= Surface Water, BW= Bottom Water

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SEA WATER ANALYSIS REPORT

			PHY'	TOPLANKTON	MONITORING DATA
Locatio)ns	Total Count/L	No. of Species	Chiorophyll- a (µg/L)	Major Species
Station-1	SW	1771	16	1.7091	Pleurosigma, C.pentagomum, , Bacillaria,Skeletonema costatum N.longisigma
	BW	1325	9	1.5642	Podosira ,C.pentagonum,N.striata, Pleurosigma Bacillaria
	sw	4632	17	1.8276	C.pentagonum, Skeletonema, N.longisigma, Pleurosigma, Chaetoceros
Station-2	вw	4824	9	1,5531	Podosira ,C.pentagonum, Pleurosigma C.pentagonum, Pleurosigma, N.longisigma, Bacillaria, Chaetocerous ,C.furca
Station-3	SW	5138	22	2.5464	C.pentagonum, N.striata, N.striata,N.longisigma,Chaetoceros
	BW	6725	11	1.9860	C.pentagonum, Chaetocerous, Bacillaria, N.striata
,	SW	2865	[4	1.8452	Podosira ,, Bacillaria, Pleurosigma
Station-4	BW	2679	12	1.6489	C.furca ,Pleurosigma ,C.pentagonu, Coscinodiscus sp.Bacillaria, Podosira Biddulphia
Station-5	SW	1324	15	0.8824	Bacillaria,Chaetocerous, Podosira, C.furca
Station-3	BW	1217	7	0.6827	N.longisigma, Podosira, Ceratium, C.furca, C.pentagonum,
Station-6	SW	1588	15	1.4456	Bacillaria, Chaetocerous, Podosira, C.furca
Station-0	BW	1312	8	1.1870	C.pentagonum, Pleurosigma, N.longisigma, Bacillaria
Station-7	sw	1866	27	1.4966	C.pentagomm, N.striata, C.furca, N.striata,N.longisigma,Chaetoceros Bacillaria, Chaetocerous, Ceratium, N.striata
	BW	1724	13	1,1456	C.pentagonum, Bacillaria, Podosira, Skeletonema,
	SW	1456	17	0.7842	Bacillaria, Chaetocerous, Ceratium, N.striata
Station-8	BW	801	5	0.5316	C.pentagonum, Chaetocerous, Bacillaria, N.striata, Ceratium fusus

^{*}SW= Surface Water, BW= Bottom Water.

			ZOOPLANKTO	N MONITORING DATA
Locatio	189	Total Count/L	No. of Species	Major Species
Station-1	SW	1666	21	Ctenophora, Protozoa, Copepod, Rotifera, Nematoda
StateOx1-x	BW	1462	9	Protozoa ,Rotifera, Copepod, Ostracoda
Station-2	SW	1570	18	Cladocera , Anostraca, Nematoda, Rotifers
Station-2	BW	1091	9	Rotifera, Nematoda, Cladocera, Ostracoda
Station-3	SW	2874	25	Crustacean Larvae, Protozoa, Ostracoda
Station-3	BW	2465	16	Protoza Rotifera,Anostraca, ,Nematoda,Larvae
Station-4	SW	2090	20	Larvae Cladocera , Cladocera, Rotifera, Ctenophora
Station-4	BW	1971	16	Ostracoda Protozoa, Copepod, Rotifera,Larvae
	SW	1762	19	Protozoa, Nematoda, Cladocera ,Copepod
Station-5	BW	1335	12	Copepod, Rotifera, Ostracoda, Protozoa Ostracoda Protozoa, Copepod, Rotifera, Larvae
Station-6	SW	1357	17	Cladocera, Nematoda, Cladocera
Station-0	BW	1196	9	Protoza Rotifera, Anostraca, , Nematoda, Larvae
Station-7	SW	1250	15	Cladocera ,Copepod, Rotifera, Nematoda

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	BW	1244	8	Rotifera,Anostraca, Cladocera,Nematoda,Larvae
Station-8	SW	1150	17	Ostracoda ,Rotifera, Protoza, Nematoda,Larvae
Orarkon-o	BW	1085	10	Cladocera, Nematoda, Rotifera, Ctenophora

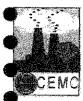
*SW= Surface Water, BW= Bottom Water

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Location	ons	Total Bacterial Count (CFU/ml)	Total Coliform (CFU/ml)	Faecal Coliform (CFU/ml)	E.coli (CFU/ml)
Station-	SW	450	60	7	ND
i	BW	540	48	6	ND
Station-	SW	410	36	5	ND
2	BW	450	30	<1.8	ND
Station-	SW	470	56	8	ND
3	BW	350	48	6	ND
Station-	SW	310	24	10	ND
4	BW	220	16	<1.8	ND
Station-	SW	370	16	7	ND
5	BW	420	22	<1.8	ND
Station-	SW	540	80	9	ND
- 6	BW	450 .	24	<1.8	ND
Station-	SW	310	42	6	ND
7	BW	350	56	8	ND
Station-	SW	450	40	7	ND
8	BW	410	30	4	ND

^{*}SW= Surface Water, BW= Bottom Water

		MICROBIOLOGICA	L MONITORING DA	TA	
Location	as	Enterococcus (CFU/ml)	Salmonella (CFU/ml)	Shigella (CFU/ml)	Vibrio (CFU/ml)
Station-1	SW	ND	ND	ND	ND
Stanou-1	BW	ND	ND	NID	ND
Station-2	SW	ND	ND	ND	ND
Station-2	BW	ND	ND	ND	ND
Station-3	SW	ND	ND	ND	ND
Station-3	BW	ND	ND	ND	ND
Station-4	SW	ND	ND	ND	ND
Station-4	BW	ND ·	ND	ND	ND
Station-5	SW	ND	ND	ND	ND
Station-3	BW	ND	, ND	ND	ND
Station-6	SW	ND	ND	ND	NO
JEEUOH-O	BW	ND	ND	ND	ND
Station-7	SW	ND	ND	ND	ND
Seation-/	BW	ND	ND	ND	ND
Station-8	SW	ND	ND	ND	ND
SIBLIUII*O	BW	ND	ND	ND	ND

^{*}SW= Surface Water, BW= Bottom Water

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SEA WATER ANALYSIS REPORT

Locatio	oas	Gross Primary Productivity (mgC/ L/ day)	Net Primary Productivity (mgC/ LJ day)
Station-1	SW	2.6	1.5
Station-1	BW	2.3	1.7
Station-2	SW	2.4	1.5
Station-2	BW	2.0	1.3
Cardina 2	SW	2.8	2.5
Station-3	BW	1.2	1.3
Carlos A	SW	2.7	2.1
Station-4	BW	2.3	1.4
Station-5	SW	2.1	1.9
21SHOH-2	BW	2.2	1.7
Station-6	SW	2.8	1.5
Station-0	BW	1.7	1.6
Cantina 7	SW	2.2	1.9
Station-7	BW	1.6	1.5
Caraina C	SW	2.9	1.8
Station-8	BW	1.4	1.5

*SW= Surface Water, BW= Bottom Water

		PHY	TOBENTHOS MON	ITORING	DATA			
Locations		Fungus (CFU/1ml dry wt.)	Total Count/ 50g wet sediment	No. of Species	Diversity Index	Major Species		
Station-1	SW	2689	280	15	0.8745	N. longsigma		
Station-1	BW	2542	310	16	0.7801	Ditylum.Rotifers		
Station-2	sw	3854	320	17	0.6521	Podosira, N. longsigma,Eshinodermate		
	BW	3666	257	10	0.5650	Podosira		
_	sw	2988	284	18	0.6564	Podosira, N. longsigma,Eshinoderma		
Station-3	BW	1857	229	9	0.5431	Podosira, N. longsigma, Ditylum		
	SW	3459	272	11	0.551	Ditylum, Copedos, C.Furc		
Station-4	BW	4474	251	9	0.5561	Ditylum		
o	SW	2256	290	14	0.8681	N.longsigma, Ctenophor		
Station-5	BW	1236	401	9	0.8900	Podosira, N. longsigmo		
1,	SW	1922	475	7	0.9571	N. longsigma, Ctenophor		
Station-6	вw	1795	300	10	0.9250	Podosira, N. longsigma Ditylum		
Station-7	SW	2550	332	8	0.5651	Ditylum		
	BW	2469	271	7	0.7050	Podosira, N. longsigma		
O4-4: O	SW	2855	201	20	0.7053	N.longsigma, podosira		
Station-8	BW	2057	568	16	0,6460	Podosira., Navicula		

*SW= Surface Water, BW= Bottom Water

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SEA WATER ANALYSIS REPORT

Locations		Name of Phylum, Class and Number of individuals encountered	Total number of species Encountered	Total Fauns per m ²	
Station-1	sw	Phylum- Annelida Class- Polychaeta-40 2 Phylum- Mollusca Class-Bivalvia-28	53	139	
218000-1	ВW	Phylum- Annelida Class- Polychaeta-28 2.Phylum- Mollusca Class-Gastropoda-14 Class- Pelecypoda-7	32	204	
Station-2	sw	Phylum-Annelida Class-Polychaeta-19 2.Phylum- Mollusca Class- Gastropoda-10 Class-Bivalvia-16 Class- Scaphopoda-3	15	123	
Station-2	BW	Phylum-Annelida Class- Polychaeta-31 2.Phylum- Mollusca Class- Gastropoda-26 Class-Bivalvia-30 Class- Scaphopeda- 29	31	174	
Station-3	SW	N 1. Phylum- Annelida Class- Polychaeta-56 2. Phylum- Mollusca Class- Bivalvia-28		963	
Otation-5	BW 1.Phylum- Annelida Class- Polychaeta-20 2.Phylum- Mollusca Class- Bivalvia-17		92	951	
Station-4	SW	I Phylum- Anthropoda Class- Amphipoda-44 2 Phylum- Annelida Class- Polychaeta- 34 3 Phylum- Mollusca Class- Pelecypoda-25 Class- Bivalvia-11 Class- Gastropoda-9	75	501	
	ВW	Phylum- Anthropoda Class- Amphipoda-30 2.Phylum- Annelida Class- Polychaeta- 14 3.Phylum- Mollusca Class- Pelecypoda-7 Class- Bivalvia-20 Class- Gastropoda-12	82	770	
Station-5	sw	N 1.Phylum- Annelida Class-Polychaeta-24 2.Phylum-Mollusca Class-Gastropoda-14 Class-Pelecypoda-14 Class-Bivalvia-04		806	
Station-3	BW	1. Phylum- Annelida Class-Polychaeta-32 2. Phylum-Mollusca Class-Gastropoda-26 Class-Pelecypoda-30 Class-Bivalvia-22	99	997	
Station-6	SW	Phylum- Arthropoda Class- Malagostraca-11 2. Phylum- Annelida Class-Polychaeta-20 3. Phylum- Mollusca Class- Gastropoda-16 Class- Pelecypoda-9	78	694	
Omnor-0	BW	1.Phylum- Arthropoda Class- Malagostraca-19 2.Phylum- Annelida Class-Polychaeta-10 3.Phylum- Mollusca Class- Gastropoda-20 Class- Pelecypoda-02	47	566	
Station-7	sw	1.Phylum-Annelida, Class-Polchaeta-12, 2.Phylum-Arthropda Class- Copepoda-18	65	490	
outou-/	BW	Phylum-Annelida Class-Polchaeta-21 2.Phylum-Arthropda Class-Copepoda-26	47	605	
Station-8	sw	Phylum- Arthropoda, Class- Malagostraca-18 2.Phylum- Annelida. Class-Polychaeta-10	36	585	
	BW	Phylum- Arthropoda Class- Malagostraca-09 2.Phylum- Annelida Class-Polychaeta-34	41	548	

*SW= Surface Water, BW= Bottom Water

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Report no. - CEMC/TDPCL/020719/Sed

Issued Date-02.07.2019

SEDIMENT ANALYSIS REPORT

Name & Address of the Customer

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

Bhadrak

: 4800035134, dtd-30.07.2018

: 14.06.2019

: Bikash Samantaray & Santosh Mohanty

: Sediment

Work order No. Date of Sampling

Sampling by

Sample Description

SEA SEDIMENT ANALYSIS REPORT

SEDIMENT ANALYSIS DATA												
Locations	PHQ	Organic Matter	Moisture Content (%)	Conductivity (mS/cm)	Iron (%)	Sodium (%)	Copper (mg/kg)	Nickel (mg/Kg)	Zinc (mg/kg)			
Station-1	6.5	4.3	8.2	5.14	3.2	23.18	< 5	< 1	< 3			
Station-2	6.8	4.6	8.2	5.06	3.2	22.4	< 5	< 1	< 3			
Station-3	6.5	4.7	8.1	5.12	3.6	21.65	< 5	<1	< 3			
Station-4	6.8	6.2	8.8	5.09	3.6	20.68	< 5	< 1	< 3			
Station-5	6.7	5.5	8.5	532	3.4	19.45	< 5	<1 .	< 3			
Station-6	6.8	6.6	7.8	5.06	3.7	16.8	< 5	<1	< 3			
Station-7	7.0	5.4	8.9	5.02	3.4	18.84	< 5	< 1	< 3			
Station-8	7.1	4.9	8.5	4.98	3.8	17.48	< 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 (xig/kg)	Potassium (mg/kg)		
Station-1	<1	< 5	< 0.5	< 0.5	835.6	1948.6	ND	ND).4		
Station-2	< 1	< 5	< 0.5	< 0.5	804.2	1742.6	ND	ND	1.22		
Station-3	<1	< 5	< 0.5	< 0.5	868.6	1724.2	ND	ND	0.82		
Station-4	<1	< 5	< 0.5	< 0.5	922.4	1864.2	ND	ND	0.88		
Station-5	<1	< 5	< 0.5	< 0.5	889.5	1824.6	ND	ND	0.96		
Station-6	<1	< 5	< 0.5	< 0.5	8.26.4	1654.2	ND	ND	0.78		
Station-7	< 1	< 5	< 0.5	< 0.5	924.6	1887.2	ND	ND	1.02		
Station-8	<1	< 5	< 0.5	< 0.5	848.2	1864.6	ND	ND	0.88		

			SEDIMI	ENT ANAL	YSIS DATA				
Locations	Total Chromiu m (mg/kg)	Petroleum Hydrocarb on (mg/kg)	Aluminiu m (mg/kg)	Total Nitroge n (mg/kg)	Organic Nitrogen (mg/kg)	Phosphoro us (mg/kg)	Texture (%)		
							Sand	Silt	Clay
Station-1	< 1	0.27	< 0.1	4.4	1.5	5.2	0.06	19.2	80.74
Station-2	< 1	0.19	< 0.1	4.4	1.7	4.6	0.4	28.2	71.4
Station-3	< 1	0.2	< 0.1	4.5	1.9	4.5	0.54	42.5	56.96
Station-4	< 1	0.08	< 0.1	3.8	1.3	4.1	0.18	20.2	79.62
Station-5	< 1	ND	< 0.1	4.1	1.5	3.8	0.8	29.2	70.00
Station-6	< 1	ND	< 0.1	3.8	1.4	3.9	1.56	34.8	63.64
Station-7	< 1	ND	< 0.1	4.6	2.2	4.6	0.64	19.85	79.51
Station-8	< 1	ND	< 0.1	4.3	2.5	4.6	2.08	25.64	72.28

Or.T. Sehu, PhD. Env. Sc

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Report no. - CEMC/TDPCL/020719/Sed

Issued Date-02.07.2019

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	2220	169	12	1.0818	N. longsigma, Amphora							
Station-2	1034	116	14	0.3281	Podosira, N.longsigma, Ditylum							
Station-3	6240	409	20	0.8566	Podosira, N. longsigma,							
Station-4	3222	371	. 8	0.5010	Podosira, N. longsigma,Euglena							
Station-5	1530	123	18	0.7851	Podosira, Ditylum							
Station-6	2680	195	6	0.8845	Podosira, Ditylum, Euglena							
Station-7	3929	517	12	0.5855	Podosira, N. longsigma							
Station-8	1359	408	8	0.7570	Podosira, Ditylum Podosira							

	TOTAL FAUNA MONITORING DATA		
Locations	Name of Phylum, Class and Number of individuals encountered	Total number of species Encountered	Total Fauna per m³
Station-1	Phylum- Arthropoda Class- Malagostraca-20 2 Phylum- Annelida Class-Polychaeta-54	106	876
Station-2	1.Phylum-Annelida Class-Polchaeta-12 2.Phylum-Arthropda Class- Copepoda-5 3. Phylum-Cnidaria Class-Anthozoa 3	71	994
Station-3	Phylum- Arthropoda Class- Malagostraca-11 2.Phylum- Annelida Class-Polychaeta-10 3.Phylum- Mollusca Class-Gastropoda-6 Class-Pelecypoda-38	91	1035
Station-4	Phylum- Annelida Class-Polychaeta-15 2.Phylum-Mollusca Class- Gastropoda-3 Class-Bivalvia-9 Class-Pelecypoda-3	58	480
Station-5	1.Phylum- Anthropoda Class- Amphipoda-20 2.Phylum- Annelida Class- Polychaeta- 10 1.Phylum- Mollusca Class- Pelecypoda-14 Class- Bivalvia-9 Class- Gastropoda-18	37	416
Station-6	Phylum- Annelida Class- Polychaeta-11 2.Phylum- Mollusca Class- Bivalvia-7 3.Phylum-Cnidaria Class-Hydrozoa-5	72	801
Station-7	 Phylum-Annelida Class-Polychaeta-13 2. Phylum- Mollusca Class- Gastropoda-22 Class-Bivalvia-8 Class- Scaphopoda-33 	. 55	416
Station-8	Phylum- Annelida Class- Polychaeta-372.Phylum- Mollusca Class- Gastropoda-12 Class-Bivalvia-6 Class-Pelecypoda-4	45	318

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Report no. - CEMC/TDPCL/010819/A1

Issued Date-01.08,2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01082019A1
Nature of Sampling	Ambient Air Sample
Sampling Location	Colony Area
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.07.2019 to 31.07,2019

ANALYSIS RESULT

					TALLA		/ A. J. A.					
Date	PM ₁₀ (µg/m³)	PM _{2.5} (μg/m³)	SO ₂ (µg/m³)	NOx (µg/m³)	CO (mg/m³)	NH ₃ (μg/m³)	O ₃ (µg/m³)	Pb (µg/m³)	Ni (ng/m³)		Benzene (µg/m³)	
01.07.2019	57.8	32.3	7.9	13.1	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
04.07.2019	59.5	33.6	8.0	13.3	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.07.2019	62.1	34.9	8.2	13.4	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
11.07.2019	61.3	34.5	8.1	13.0	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
15.07.2019	51.9	30.9	7.8	12.6	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
18.07.2019	52.4	31.7	7.6	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.07.2019	62.2	34.4	7.9	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
25.07.2019	63.7	35.2	8.3	13.4	0.5	<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)		IS: 5182 (Part-2)			Mathed	IS: 5182 (Part-9)		method followed	As per CPCB method followed by AAS	(Part- 11)	IS: 5182 (Part- 12)

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

The result given above related to the tested sample, as in the distormer asked for the above test only. This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.

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Report no. - CEMC/TDPCL/010819/A2

Issued Date-01.08.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

all a	Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
	Work Order No.	4800035134, dtd-30.07.2018
	Reference No.	CEMC-01082019A2
	Nature of Sampling	Ambient Air Sample
	Sampling Location	Kanakaprasad Village
Ó	Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
_	Sampling Duration	01.07.2019 to 31.07.2019

Date	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO2 (ug/m3)	NOx (µg/m3):	CO (mg/m3)	NH3 (μg/m3)	O3 (μg/m3)	Рb (µg/m3)	Ni (ng/m3)		Benzene (µg/m3)	
01.07.2019	56.9	33.1	7.8	12.9	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
04.07.2019	57.6	33.2	7.6	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.07.2019	58.2	33,9	7.9	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
11.07.2019	54.5	32.4	7.8	12.2	0.4	<20	<10	<0.06	<0,6	<0.44	<1	<1
15.07.2019	57.4	33.6	7.4	12.8	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
18.07.2019	53.7	31.2	7.3	12.3	0.2	<20	<10	<0.06	<0.6	< 0.44	<1	<1
22.07.2019	52.3	30.9	7.8	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
25.07.2019	54.5	31.3	7.7	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	11
Methods of Analysis	IS: 5182 (Part-23)		IS: 5182	1 .	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		IS: 5182 (Part-11)	

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

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Report no. - CEMC/TDPCL/010819/A3

Issued Date-01.08.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

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÷	Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
	Work Order No.	4800035134, dtd-30.07.2018
•	Reference No.	CEMC-01082019A3
	Nature of Sampling	Ambient Air Sample
•	Sampling Location	Near BMH
	Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
	Sampling Duration	01.07.2019 to 31.07.2019

Date	РМ ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	SO ₂ (μg/m³)	NOx (µg/m³)	CO (mg/m³)	NH ₃ (μg/m ³)	Ο ₃ (μg/m ³)	Pb (μg/m³)	Ni (ng/m³)	As (ng/m³)	Benzene (µg/m³)	BaP (ng/m³)
01.07.2019	62.3	34.6	8.5	14.6	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
04.07.2019	63.8	35.2	8,8	14.9	0.6	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.07.2019	61.9	33.5	8.5	14.1	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
11.07.2019	60.6	32.3	8.1	13.8	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
15.07.2019	62.7	34.8	8.6	14.3	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
18.07.2019	64.3	35.9	8.7	14.0	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.07.2019	63.1	34.4	8.8	14.5	0.6	<20	<10	<0.06	<0.6	<0.44	<)	<1
25.07.2019	61.5	33.2	8.5	14.2	0.5	<20	<10	<0.06	<0.6	<0,44	<]	<]
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	l ac ner	IS: 5182	IS: 5182 (Part-6)	IS: 5182	3"	IS: 5182	IS: 5182 (Part-22)	ł .	1 v 1	IS: 5182 (Part-11)	IS: 5182 (Part- 12)

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

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oction The The result given above related to the tested sample, as A ustomer asked for the above test only.

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Report no. - CEMC/TDPCL/010819/A4

Issued Date-01.08.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01082019A4
Nature of Sampling	Ambient Air Sample
Sampling Location	Near Jetty
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.07.2019 to 31.07.2019

Date	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m³)	SO ₂ (µg/m ³)	NOx (μg/m³)	CO (mg/m³)	NH ₃ (µg/m ³)	O ₃ (µg/m³)	Pb (μg/m³)	Ni (ng/m³)	As (ng/m³	Benzene (μg/m³)	BaP (ng/m³)
01.07.2019	68.3	36.2	8.8	14.8	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
04.07.2019	70.4	37.5	9.1	15.4	0.6	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.07.2019	67.9	36.4	8.7	14.6	0.5	<20	<10	<0.06	<0.6	<0.44	< <u>I</u>	<1
11.07.2019	65.2	34.2	8.5	14.2	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
15.07.2019	69.5	36.1	8.8	14.8	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
18.07.2019	67.4	35.9	9.2	15.4	0.6	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.07.2019	65.7	34.3	8.9	15.2	0.6	<20	<10	<0.06	<0.6	<0.44	<1	<1
25.07.2019	66.8	35.2	8.7	14.6	0.5	<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)	1 SC DAY	IS: 5182	IS: 5182 (Part-6)			IS: 5182	IS: 5182 (Part-22)			IS: 5182	IS: 5182 (Part- 12)

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

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Report no. - CEMC/TDPCL/010819/A5

Issued Date-01.08.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01082019A5
Nature of Sampling	Ambient Air Sample
Sampling Location	Dosinga Village
Sampling By	Mr. Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.07.2019 to 31.07.2019

Date	PM ₁₀ (μg/m ³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m³)	NOx (µg/m³)	CO (mg/m³)	NH ₃ (µg/m³)	O ₃ (μg/m ³).	Pb (μg/m³)	Ni (ng/m³)	As (ng/m³)	Benzene (µg/m³)	BaP (ng/m³
01.07.2019	60.3	33.1	8.3	13.5	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<u> </u>
04.07.2019	59.6	32.4	8.0	13.2	0.4	<20	<10	<0.06	<0.6	<0.44	<ï	<1
08.07.2019	58.4	31.9	7,9	13.4	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
11.07.2019	61.6	33.7	8.2	13.3	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
15.07.2019	58.7	32.3	8.3	13.5	0,4	<20	<10	<0.06	<0.6	<0.44	<1	
18.07.2019	59.2	32.8	8.1	13.1	0,4	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.07.2019	60.5	33.2	8.2	13.3	0.5	<20	<10	<0.06	<0.6	<0.44	<1	<1
25.07.2019	57.8	31.9	8.1	13.4	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)	Gravimetri c Method as per CPCB method	IS: 5182	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nots Blue Method followed by CPCB	IS: 5182	IS: 5182 (Part-22)	As per CPCB method followe d by	CPCB method	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

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

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

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Report no. - CEMC/TDPCL/010819/A6

Issued Date-01.08.2019

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07.2018
Reference No.	CEMC-01082019A6
Nature of Sampling	Ambient Air Sample
Sampling Location	Bhitarkanika (Eco Sensitive)
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Duration	01.07.2019 to 31.07.2019

Date	PM ₁₀ (μg/m ³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m ³)	NOx (µg/m³)	CO (mg/m³)	NH ₃ (µg/m ³)	O ₃ (μg/m³)	Pb (µg/m³)	Ni (ng/m³)	As (ng/m³)	Benzene (µg/m³)	BaP (ng/m³
01.07.2019	50.9	28.3	6.9	11.0	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<u> </u>
04.07.2019	48.1	26.8	6.8	10.6	0.2	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.07.2019	49.4	27.1	6.5	10.9	0,3	<20	<10	<0.06	<0.6	<0.44	<1	<1
11.07.2019	51.5	28.6	7.3	11.2	0.4	<20	<10	<0,06	<0,6	< 0.44	<1	<1
15.07.2019	49.8	27.2	7.4	10.7	0.3	<20	<10	<0.06	<0.6	< 0.44	<1	<1
18.07.2019	50.3	28.1	7.5	11.1	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.07.2019	48.6	26.4	6.7	10.8	0.3	<20	<10	<0.06	<0.6	< 0.44	<u><1</u>	<1
25.07.2019	48.1	25.5	6.9	10.4	0.3	<20	<10	< 0.06	<0.6	< 0.44	<1	<1
NAAQ Standard	100	60	80	80	4	400	100	1.0	20	б	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetri c Method as per CPCB method	IS: 5182		IS: 5182 (Part-10)		IS: 5182				IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

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

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Notes:

The result given above related to the tested sample, as reached, and astomer asked for the above test only.

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Report no. - CEMC/TDPCL/010819/N

Issued Date-01.08.2019

NOISE LEVEL MONITORING REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800035134, dtd-30.07,2018
Analysis No.	CEMC/TDPCL-D00N1
Nature of Sampling	Noise Sample
Sampling By	Mr.Chandan Kumar & Mr. Bhaktahari Dash
Sampling Date	01.07.2019 to 31.07.2019

Date	Location	NLI	ay Time dl	NL Night Time dB (A)			
DALE	Lacation	Max	Min.	Avg.	Max.	Min.	Avg.
19.07.2019	Near Jetty (I)	73.1	65.7	69.4	67.2	61.6	64.4
05.07.2019	Near BMH-1	71.9	66.1	69.0	66.5	61.3	63.9
02.07.2019	Colony Area (R)	54.5	51.9	53.2	44.1	39.7	41.9
16.07.2019	Kanakaprasad Village (R)	53.6	50.8	52,2	43.7	38.9	41.3
12.07.2019	Dosinga village (R)	54.2	51.6	52.9	44.0	39.8	41.9
09.07.2019	Ecosensitive Zone	51.1	46.3	48.7	40.3	37.1	38.7

^{*}NL- Noise Level, I- Industrial, R- Residential

National Standard of Noise Level

Area	Catagory of Association		
Code	Category of Area/Zone	Day Time	Night Time
A	Industrial Area	75	70
В	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Notes:

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Report no. - CEMC/TDPCL/010819/W1

Issued Date-01.08.2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by Date of Sampling Date of Receiving

Sampling & Testing Procedure

Sample Description Sample Quantity

Sample Location with Job Code

Reference Number

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

Bhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktabari Dash

: 10.07.2019 & 23.07.2019

: 11.07.07.2019 & 24.07.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 15 KLD (Inlet)

: CEMC-01082019W1

STP INLET ANALYSIS RESULT

SI.		Winds of	Re	sult	
No.	Parameter	Unit of Measurement	1** Fortnight	2 nd Fortnight	Design parameter for Raw Sewage
l	Appearance		Turbid	Turbid	
2	Colour	****	Blackish	Blackish	
3	Odour		Foul	Foul	-
4	pH Value @ 25°C		6.83	6.91	6.0-8.5
5	Total Suspended Solids	mg/l	139	128	1000
б	B.O.D for 3 days @ 27°C	mg/i	200	180	300-350
7	Oil & Grease	mg/l	7.9	7.6	100
8	COD	mg/l	640	610	
9	Ammonical Nitrogen	mg/l	7.8	7.5	
10	Total Nitrogen	mg/l	37.1	36,3	
11	Faecal Coliform	MPN/100ml	>1600	>1600	****

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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/010819/W2

Issued Date-01.08.2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by Date of Sampling Date of Receiving

Sampling & Testing Procedure

Sample Description Sample Quantity

Sample Location with Job Code

Reference Number

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

Bhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 10.07.2019 & 23.07.2019

: 11.07.2019 & 24.07.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 15 KLD (Outlet)

: CEMC-01082019W2

STP OUTLET ANALYSIS RESULT

SI.		¥17	Res	ult	CA H. A. C. M. CUTTON
No.	Parameter	Unit of Measurement	1 st Fortnight	2 nd Fortnight	Standards for New STPs Design after notification 2015
I	Appearance		Clear	Clear	-
2	Colour	•••	Colorless	Colorless	•
3	Odour		Odourless	Odourless	
4	pH Value @ 25°C		7.38	7.44	6.5-9.0
5	Total Suspended Solids	mg/l	16.2	15.1	<20
6	B.O.D for 3 days @ 27°C	mg/l	9.8	9.5	<10
7	Oil & Grease	mg/l	<5	<5	-
8	COD	mg/l	34	30	<50
9	Ammonical Nitrogen	mg/l	1.2	1.2	<5
10	Total Nitrogen	mg/l	6.1	5.8	<10
11	Faecal Coliform	MPN/100ml	22	22	<100

Ms. M. Rout Mac Env Sig Govt. ANALYSTIC GAZETTE NO. 1357, DC03-06-2016

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Report no. - CEMC/TDPCL/010819/W3

Issued Date-01.08,2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by Date of Sampling Date of Receiving

Sampling & Testing Procedure

Sample Description Sample Quantity

Sample Location with Job Code

Reference Number

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

Bhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash : 10.07.2019 & 23.07.2019

: 11.07.2019 & 24.07.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 140 KLD (Inlet)

: CEMC-01082019W3

STP INLET ANALYSIS RESULT

SI.		Unit of	Re:	sult	
No.	Parameter	Measurement	Ist Fortnight	2nd Fortnight	Design parameter for Raw Sewage
1	Appearance	+-	Turbid	Turbid	•
2	Colour		Blackish	Blackish	-
3	Odour	-	Foul	Foul	***
4	pH Value @ 25°C		6.81	6.92	6.0-8.5
5	Total Suspended Solids	mg/l	152.6	139.4	1000
6	B.O.D for 3 days @ 27°C	mg/l	210	230	300-350
7	Oil & Grease	mg/l	6.5	6.7	100
8	COD	mg/l	630 ·	660	Windows Control of the Control of th
9	Ammonical Nitrogen	mg/l	7.4	7.8	-
10	Total Nitrogen	mg/l	39.5	41.2	
11	Faecal Coliform	MPN/100ml	>1600	>1600	



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

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Report no. - CEMC/TDPCL/010819/W4

Issued Date-01.08,2019

STP TEST REPORT

Name & Address of the Customer

Work order No. Sampling by Date of Sampling Date of Receiving

Sampling & Testing Procedure

Sample Description
Sample Quantity

Sample Location with Job Code

Reference Number

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

Bhadrak

: 4800035134, dtd-30.07.2018

: Mr. Bhaktahari Dash

: 10.07.2019 & 23.07.2019

: 11.07.2019 & 24.07.2019

: APHA 23rd Edition

: Waste Water

: 1.0 Ltr each

: STP - 140 KLD (Outlet)

: CEMC-01082019W4

STP OUTLET ANALYSIS RESULT

SI.		WT	Res	ult	ATT E TOTAL
No.	Parameter	Unit of Measurement	1 st Fortnight	2 nd Fortnight	Standards for New STPs Design after notification 2015
1	Appearance	 .	Clear	Clear	-
2	Colour		Coloriess	Colorless	_
3	Odour	-	Odourless	Odourless	_
4	pH Value @ 25°C	****	7.64	7.75	6.5-9.0
5	Total Suspended Solids	mg/l	15.6	16.9	<20
6	B.O.D for 3 days @ 27°C	mg/l	9.4	9.8	<10
7	Oil & Grease	mg/l	<5	<5	
8	COD	mg/l	38	44	<50
9	Ammonical Nitrogen	mg/l	1.4	1.8	<5
10	Total Nitrogen	mg/l	5.9	6.8	<10
11	Faecal Coliform	MPN/100ml	17	22	<100

Ms. M. ROUNDMS ETV. SC GRYLING SIENATORS 16 (GAZET NEW) -135 SIENATORS 6-2015

The result given above related to the tested sample, as it was a like ustomer asked for the above test only.

> This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.

> The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.

Environmenta

> This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the 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.

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

THE CONTRACT HE PARTY OF THE PA

Dur 08/04/2019

Name of Industry

: M/s The Dhanara Port Company Limited, Dosinga, Bhadrak, Odisha

Monitoring Instruments

: RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Analyzer, VOC Sampler

3, 4. Sampling Location : AAQMS-5: Eco Sensitive zone (Near Bhitarkanika)

Sample collected by

: VCSPL representative in presence of DPCL representative

	PARAMETERS												
Date	PM ₁₀ (pg/m²)	(1251 _{2.5}	SO: (ugun')	NOx (ag/m³)	CO (mg/ar ³)	Os (ng/m²)	NIL (pg/m²)	Ph (ng/m²)	As (ng/m²)	Ni (ng/m²)	C.11.	Bid? (ng/or)	
22.08.2019	38.0	20.0	5,3	10.7		BDL.	BDL.	BDL	BDL	BDL	BDL	BDL	
23.08.2019	32.0	17.0	5.6	10.4	÷-	BDL	BDL	BDL	BDL	BDL	BOL	BDL	
27.08.2019	35.0	19:0	4.9	10.2	pi.	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
30.08.2019	30.0	17.0	4.4	9.6		BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Monthly Average	33,8	18.3	5.1	10.2	bites	BDL	BDL	BDL.	BDL	BDL.	BDL	BDL	
NAAQ Standard	100	60	80	80	đ	100	400	1	6	20	5	1	
TEST METHOD	Gravinaetric 18 51622 Pairt 23	Gravámetrác EPA 1998	improved Vest & Geale Melhad (3.5182 (Part-2) RA2017	Modifical Jacobi & Hachbeire i Method (S \$182 (Parto) RA2017	Nun Disperato infrarcal Method 18 5192 (Part- 10 11990	Chemical Method Alt: Sampling, 3rd Edu, By James P, Ludge (Method-	indo Phonal Bine Method Air Sampling Jes Edo, By James P. Ledge (Method	AAS Method IS 5182(Pair 322),7004			Class Chinisto graphy 15 5152 (Puri- 11):2006	Solvent Extraction 1 15 5182 (Part- 12):2004	

| Pair 23 | EPA 1998 | IS 5182 | IS





CHARLES THE STORES

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(Air Ensiro Engineering Consulting Call)

Due 63/09/2019

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Visiontek Consultancy Services Pvt. Ltd

AND HOMETONSHO

AMBIENT AIR QUALITY MONITORING REPORT FOR AUGUST -2019

Name of Industry

: M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha : RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Analyzer, VOC Sampler

Ž. Monitoring Instruments

Sampling Location

: AAQMS-5: Kanak Prasad Village

Sample collected by

: VCSPI, representative in presence of DPCL representative

						PARAMET	TERS	- Liver Management				
Date	PM _# (µg/n ²)	PM _{2,8} (µg/m 1	(1/8/ei_) 20,1	NOx (ng/m²)	CO (mg/m/)	(98)m²)	NH, (m/m²)	РЬ (на ја)	As (ngm²)	(/a/gu)	(625 m.)	Bal ^r (ng/m³)
02.08.2019	55.0	29:0	6.9	12.6		BDL	BDŁ	BDL	BDL	BDL.	BDL	BDL
08:08:2019	49.0	24.0	6.3	11.9	+H	BDL.	BDL	BDL	BDL	BDL	BDL	BDI.
14.08.2019	51.0	26.0	5,9	10,7		BDL	BDL	BDL	BDL	BDL.	BOL	BDL.
20.08.2019	58.0	30.0	7.1	13.2	**	BDI.	BDL	BDL	BDL	BDL	BOL	BDL
23.08.2019	50.0	26.0	6.5	12.4		BD1.	BDL	BDL	BDL	BDL	BDL	BDL
27.08.2019	54.0	28.0	6,2	11.7	•*	BDL	BDL	BDL	BDL	BDL	BDL	BDL
0.08.2019	46.0	24.0	5.7	10.9	419	BD1.	BDL	BDL.	BDL	BDL	BDL	BDL
Monthly Average	51.9	26.7	6.4	11.9	**	BDL	BDL	BÐL	BDL	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	4	100	400	1	6	20	5	ı
PEST METHOD	Ciravimetrie 18 S1822 Part 23	Gravimente EPA 1998	Improved West & Grafts Minimal IS \$182 (Part-2) RAZO17	Modified Jacob & Rochlodes 7 Method 85 5182 (Part-5) RA2017	Non Dispersive infrared Method IS 5152 (Part- 10) 1593	Chemical Melloid Afr Sumpling, Jed Edm By James P. Lodge (Method-	Indio Phenol Blue Method Air Sausiling , 3rd Edia By James P, Ludge (Method- dor)	AAS Muliod IS stricture 22);2004		Gas Clarimuto graphy IS 5182 (Pare- 119:1006	Solvent Extraction 18 5182 (Pare 12):1004	

#DL Values: SO₂< 4 μg/m², NO₂: 9 μg/m², Oj<4 μg/m², NH₂<20 μg/m², Ni<0.01 ng/m², As < 0.001 ng/m², C₂H₆<0.001 μg/m², Bab<0.002 ng/m², Ph<0.001 μg/m², CO><0.1 ng/m²





Br/00/129/19-4140

Visiontek Consultancy Services Pvt. 1 On Emiro Engineering Consulting Coll)

THE THEFT TWO

Name of Industry

Monitoring Instruments

: M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha : RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Analyzer, VOC Sampler | AAQMS-4: Dosinga Village

Sampling Location

4. Sample collected by

: VCSPL representative in presence of DPCL representative

						PARAME	TERS	active description of the state	*		an erre værelingsge i transge a særen, en	- I - Miletonia de la decidio de 10 con
Date	(119 m²)	P.M.s (ug/m²)	SO: (#g/m²)	NOx (ng/in³)	CO (mg/m³)	Q _i (gg/m³)	N(I) ₃ (pg/m²)	የኪ (µg/m²)	AS (mg/m²)	Ni (ng/m²)	C _t H _b (pg/m²)	642 (02/61)
01.08.2019	63.2	33.2	9.8	12.5	THE STREET	6.1	23.6	0.010	BDI.	BDL	BDL	BDL
09.08.2019	61.5	31.5	10.2	13.1	***	5.6	22.8	0.007	BOL	BDL	BDL	BDL
13.08.2019	60:0	31.0	9.5	13.6	**	5,9	23.1	0.008	BDL	BDL	BDL	BDL
20.08.2019	62.6	33.0	9.3	12.8		6.2	21.9	BDL	BDL	BDI.	BDL	BDL
23.08.2019	63.1	34.0	9.0	13.0		5.4	22.5	0,008	BDL	BDL	BDL	BDL
27.08.2019	59.8	31.0	10,5	[4,]	4-	6,5	22.7	BDL	BDL	BDL	BDL	BDL
30.08.2019	60.0	32.0	10.2	13.7		5.3	22.4	BDL	BDL	BDL	BDL	BDI.
Monthly Average	61.5	32.2	9.8	13.3	a a	5.9	22.7	0.008	BDL	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	4	100	400	1	6	20	5	Į
PEST METHOD	Gravingsrik 16 8182: Part 23	Graylmatric EPA 1998	lapproved West & Geske Method IS 5182 (Bart-2) RA2017	Modified Jacob & Floribleise / Method IS 5182 (Part-6) RA2017	Non Dispersive Infrared Stethod 18:5182 (Pare- 10)11999	Chemical Michigal Air Sampling Jed Edu By James P. Lodge (Mothad-	indo Prened Blue Method Air Sampling, 3rd Edn.Ry Annes F. Lodge (Michad.	AAS Nichod IS 5182(Pavi -22)(2004			Gas Chromano graphy IS 5482 (Parte 11):2006	Solvent Extractly 18 5182 (Part) 12) 2004





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Isinter Consultancy Services Pvt. Ltd.

(An Enviro-Engineering Consulting Cell)

Date 08/09/2019 LOW COME SYSTEM (A)

AMBIENT AIR QUALITY MONITORING REPORT FOR AUGUST -2019

: M/s The Phamra Port Company Limited, Dosinga, Bhadrak, Odisha

Name of Industry Monitoring Instruments

: RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Analyzer, VOC Sampler

Sampling Location

: AAQMS-3: Near Jetty

4. Sample collected by

(VCSPL representative in presence of DPCL representative

	depth 1999 and callings, are conti	regioner i mini ana pepakaran sabija ba				PARAMET	FERS					
Date	PM (ag/m²)	PMs.s (pg/at/)	((((g/m²)	NOx (ma/m²)	CO (mg/m²)	O ₁ (yg/m²)	NH ₁ (µg/m²)	Pb (แฮ/m²)	As (ng/m²)	Ni (ng/m²)	(hs/m²) C ^e ff	(ng/m²)
02.08.2019	71.2	38:1	12.3	19.2	-37	12.6	31.5	0.011	BDL	BDI.	BDL	BDL
09.08.2019	68.9	36.0	13.7	18.6	**	14.3	34.2	0.009	BDL	BDL	BDL	BDL
14.08.2019	70.0	37.0	12.0	17.6	5*	13:1	32.7	0.012	BDL	BDL	BDL	BIJL
20.08.2019	73.5	40.0	11,6	19.2		13.7	33.1	0.008	BDL	BDL	BDL	BDL
23.08.2019	69.4	37.3	13.7	19.9	-	12.8	31,5	0.013	BDL	BDL	BDL	BDL
27.08.2019	67,6	35.0	12.4	17.2		14.6	34.8	0.016	BDL	BDL	BDL	BDL
30.08.2019	73.0	39.1	14.2	18.1		13.8	32.7	0.009	BDL:	BDL	BDL	BDL
Monthly Average	90.5	37.5	12.8	18.5		13,6	32.9	0.011	BDL	BOL	8DL	BDL
NAAQ Standard	100	60	80	80	4	100	400	1	6	20	Š	ı
TEST MÉTHÓD	Grayimetrie IS 51821 Pairi 23	Gravlingthic RPA 1998	Improved West & Geake Method IS 2182 (Farts) RA2017	Modified Jacob & Hackhelster Distribud (\$ 5182 (Part-6) RA1817	Non Dispersive Intraced Method 15 5141 (Fact- 10):1799	Chemical Mediod Air Sampling, Jed Educhy James P. Lodge (Mediod	indo Phonod Rius Method Air Sampling Aid Eriaciby James P. Lodge (Method	ts	AAS (Methos SISI(Peri -22)		Ges Chromato graphy IS 5182 (Part- 11):2996	Solvent Extracts 0 ES 4182 (Part- 12):2004

BDL Values SO₂<4 μg/m², NO₃<9 μg/m², O₃<4 μg/m², NH₃<20 μg/m², Ni<0.01 αg/m³, As < 0.001 αg/m², C₆H₆<0.001 μg/m², Ball<0.002 αg/m², Pb<0.001 μg/m², CO<0.1 αg/m², CO<0.1 αg/m²





Duic 08/000/2019

AMBIENT AIR QUALITY MONITORING REPORT FOR AUGUST -2019 : M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha

1. Name of Industry

Monitoring Instruments

: RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Analyzer, VOC Sampler

3. Sampling Location : AAQMS-2: Near BMH I

4. Sample collected by

: VCSPL representative in presence of DPCL representative

				, , , , , , , , , , , , , , , , , , ,		PARAMET	rers		**************************************	- U.V Harderton V	and a History of the world	
Date	PM ₁₀ (ng/nk)	PM _{2.5} (ag/iu ³)	SO ₂ (pg/nr ²)	NOx (µg/m²)	ÇO (mg/m³)	O ₃ (ug/m³)	NH ₃	P 6 (μg/m²)	As (ug/m²)	Ni (mg/m²)	C,H,	Ba(P (mp/m²)
04.08.2019	63.0	32,0	8.5	15,3	**	8.2	26.7	BDL	BDL	BDL	BDL	BDL
08:08,2019	58.0	30.0	8.9	14.7		7.7	27.1	BDL	BDI.	BDL	BDL	BDL
20.08.2019	65.0	33,0	8.1	14.2	p-4	7.1	26.8	BDL	BDL	BDL	BDL	BDL
23.08.2019	61.0	29.0	9.0	15.0		5.9	25Å	BDL	BOL	BDL	BDL	BDL
27.08.2019	64.3	32:6	8.3	15.3	••	8.1	27.6	BDL	BDI.	BDL	BDL	BDL
30.08,2019	64.0	31.0	8.7	14.8	~ #	7.3	25,7	BDL	BDI.	BDL	BDL	BDL
Monthly Average	62.6	31.3	8.6	14.9	**	7.6	26.6	BDL	BDL	BDL,	BDL	BDL
NAAQ Standard	109	60 .	80	80	4	100	409	1	6	20	s	1
TEST	Gravimotešę 15 5 182; Part 13	Gravimetrie EPA 1998	Improved West & Gashe Method IS \$183 (Fart-72) RA2017	Modified Jacob & Hochheise r Method IS 5132 (Partos) ik/2017	Non Dispersive Infrared Method IS 5181 (Part- ID):1999	Chemical Method Afr Sampling a 3rd Eda By Junes P. Lodge (Method- 471)	hido Phenol Blue Method Air Sampling , 3rd Lifn By James P. Lodge (Method Air)	15	AAS (Methor \$182(Pari -22)	i 2004	Gas Chromato graphy IS 3182 (Part- 11):2006	Solvent Extracted 0 18,5182 (Part- 12):2004

BDL Values: SO;< 4 μg/m², NOχ< 9 μg/m², O;<4 μg/m², NH;<20 μg/m², Ni<0.01 ng/m², As < 0.001 ng/m², C₂H₆<0.001 μg/m², BaP<0.002 ng/m², P6<0.001 μg/m², CO<0.1 mg/m², CO<0.1 mg/m², CO<0.001 μg/m², CO<0.00





Plet No. M. 238.23. Character and sample Febrary Business war 1910-26. Des. Klaude, O.E. des. 101, 277, 91700; Sanodi i vissanda oʻstoplayo, vasionidansiyyandi döna vasionidansa jahad döna. Visa ne at wasa sesplayo Unsandad For Televisionasyon

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isionick Consultancy Services Pvt. (An Eaviro Engineering Consulting Cell)

THE STREET ACTION

AMBIENT AIR QUALITY MONITORING REPORT FOR AUGUST -2019

1. Name of Industry

: M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha

Monitoring Instruments

: RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Analyzer, VOC Sampler : AAQMS-1: Colony Area

Sampling Location

Sample collected by

: VCSPL representative in presence of DPCL representative

	The second second		12 Januari Anthrone Section 1 April 1			PARAMET	ers		anni lake e daharah ancer ker	man / v C department alors - Chillia		
Date	PVI _{Id} (ug/m³)	PM2. (µg/m²)	\$0 ₂ (pg/m³)	NOx Gig/m"	CO (mg/m²)	O) (pre/m²)	NH, (pg/m²)	Pb (µg/in¹)	As (ng/m²)	(ng/m²)	CaH, (pg/m²)	BnP (ng/m³)
01:08:2019	46:0	24.0	10.1	14.5	***	5.4	22.5	BDL.	BDL.	BDL	BDL	BDL
0.08.2019	52.0	27:0	10.8	16.7	**	5.6	21.8	BDL	BDL	BDL	BDL	BDL
20.08,2019	48.0	23.0	8.2	[4,]		4.9	22.2	BDL	BDL	BDL	BDL	BDL
3.08.2019	42.0	21.0	9.5	13.8		5,5	22.7	BDL	BDL	13D1.	BDL	BDL
27.08.2019	51.0	26.0	11.4	15,2		5.2	22.5	BDL.	BDL	BDL	BDL	BDL
30.08.2019	44.0	23,0	9.7	14.3	4.	4.8	21,4	BDL	BDL	BDL	BDL	BDL
Mostlily Average	47.2	24.8	10.0	14.8		5.2	22.2	BD1.	BDĹ	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	4	100	400	. 1	6	20	5	1
TEST METHOD	Gravinsetrie ISS 1821 Fact 23	Gravishetria EPA 1949	Juproved West & Geske Method 15 5182 (Part-2) RAZ017	Modifical Jacob & Historialse r Michael IS 2182 (Part-6) RA2017	Non Dispersive Infrared Method IS 5183 (Part- Hig 1999	Chronical Method Air Sampling, 3rd Ldm. By James, P. Lodge (Method- 441)	lads Phenol Blue Method Sir Socipling , 3rd Chinley Jones P Lodge (Method	ıs	AAS Metha 5182(Part -22)		Gas Chromato Colphr 18 5182 (Part- (1):2006	Salvent Extraction 18 18 5 182 (Part- 12):2004

BBL Falues: SO₂<4 μg/m², NO₂<9 μg/m², O₃<4 μg/m², NH₃<20 μg/m², Ni<0.01 ng/m², As < 0.001 ng/m², C₂H₈<0.001 μg/m², BaP<0.002 ng/m², Pb<0.001 μg/m², CO<0.1 mg/m²





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ISO 14001 : 2004 OHSAS 18001 : 2007

Ref.: Envlab/19/R-4120

Date: 03.09.19

NOISE QUALITY ANALYSIS REPORT FOR AUGUST-2019

Name of Industry

: M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha

SI.	Date of	Location	Standard	Noise	Level in dB	A) leq
No.	Monitoring	Location	Day	MIN	MAX	AVG.
1	26.08.2019	Near Colony	55	50.4	53.6	52.0
2	26.08.2019	Near BMH		65.3	72.5	68.9
3	26.08.2019	Near Jetty	75	65.7	74.1	69.9
4	27.08.2019	Dosinga Village		50.8	53.7	52.3
5	27.08.2019	Kanak Prasad Village	55	50.5	53.0	51.8
6	27.08.2019	Eco Sensitive Zone (Near Bhitarkanika)	50	47.0	50.3	48.6

SI.	Date of	Location	Standard	Noise Level in dB(A) leq					
No.	Monitoring	Location	Night	MIN	MAX	AVG.			
1	26.08.2019	Near Colony	45	40.4	46.2	43.3			
2	26.08.2019	Near BMH		58.3	68.2	63.2			
3	26.08.2019	Near Jetty	70	60.2	68.9	64.5			
4	27.08.2019	Dosinga Village	The state of the s	38.7	45.6	42.1			
Š	27.08.2019	Kanak Prasad Village	45	38.9	45.8	42.3			
6	27.08.2019	Eco Sensitive Zone (Near Bhitarkanika)	40	35.8	39.8	37,8			







(An Enviro Engineering Consulting Cell)



BSCS FACEN 20004 10805AS 180011 2007

Ref.: enwfab/19/R-4113

Dute 08/04/2019

WATER QUALITY REPORT AUGUST-2019

I. Name of the Industry

: M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha

2. Name of the Location

: WW-1: 140 KLD STP Inlet

THE STATE OF THE S

: WW-2: 140 KLD STP Outlet

3. Date of Sampling

: 22.08.2019

4. Date of Analysis

: 23.03.2019 to 28.08.2019

5. Sample Collected By

: VCSPL Representative in presence of DPCL representative

SL.	Name of the	M. F.		Standard as per Schedule-VI of EP	Analysis	Result	
No.	Parameters	Unit Testing Method		Rules, 1986 Annad. 2015 (Discharge to Inland Surface Water)	WW-1	WW-2	
Ī	nil	404	APHA 4500H'B	6.0 - 9.0	6.73	7.69	
2	Color	Hazen	APIJA 2120 B.C		Blackish	ČĻ	
3	Odour	week a second of the second of	APRIA 215013		Pungent Smell	U/O	
4	Appearance	Seal Seal	APHA 2110	Annual Control of Cont	Turbid	Clear	
5	Total Suspended Solids	THEO!	APELÁ 2540 D	100	92	10	
<u> </u>	Biochemical Oxygen Deptand as BOD (3 days at 27°C)	THE	APHA SEIDB	30	namanana kananini kalendari di sepirangan pagangan ana kananini kananini kananini kananini kananini kananini k	6.7	
7	Chemical Oxygen Demand (COD)	mg/l	APHA 5220 C	250	232	28	
8	Oil & Grease	mg/l	APLIA 5520 B	10	18.0	2.0	
Ģ	Amnionical Nitrogen as NH ₃ -N	mg/l	APHA 4500 NII _s F	50	17.5	10.7	
10	Total Nitrogen	รทั ญ /ไ	Calculation		20.32	13.04	
Į Į	Feacal Coliform	MPN/100ml	APHA 9221 F	Mark AP	240	39	







An Enviro Engineering Consulting Cells



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1 mile: 03/09/2019

WATER QUALITY REPORT AUGUST-2019

1. Name of the industry

: M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha

2. Name of the Location

: WW-1: 140 KLD STP Inlet

2. Partic of the cocation

: WW-2: 140 KLD STP Outlet

3. Date of Sampling

: 27.08.2019

4. Date of Analysis

: 28.08.2019 to 02.09.2019

5. Sample Collected By

; VCSPL Representative in presence of DPCL representative

St.	Name of the			Standard as per Schedule-VI of EP Rules, 1986 Amnd.	Analysis	: Result
St No.	Parameters		Testing Method	2015 (Discharge to Inland Surface Water)	WW-1	WW-2
l	pH		APHA 45001TB	6.0 - 9.0	7.18	7,54
2	Color	Huzen	APHA 2120 B.C	harting the second seco	Blackish	Cl.
и, Э	Ódour	and the state of t	APIIA 2150 B	And the control of th	Pungent Smelt	U/O
4.	Appearance	<u> </u>	APIIA 2110	***	Torbid	Clear
5	Total Suspended Solids	mg/l	API IA 2540 D	100	78	8
6	Biochemical Oxygen Demand as BOD (3 days at 27°C)	mg/l	APITA 5210 B	30	74	6.3
7	Chemical Oxygen Demand (COD)	ngi	ÁPITA 5220 C	250	220	24
8	Oil & Grease	mg/l	APIIA 5520 B	ĺÔ	16.8	2.2
9	Ammonical Nitrogen as NH ₃ -N	ing/l	APLIA 4500 NILE	50	14.3	6.4
10	Total Nitrogen .	മ്പ	Calculation	ether .	18.55	9.56
11	Feacal Coliforn	MPN/100ml	APIJA 9221 F		280	47







(An Enviro Engineering Consulting Cell)



PSE LEGIT 2014 DHSES 1800 1 200"

Date: 08/09/2019

Rep. Contab/19/R-4115

WATER QUALITY REPORT AUGUST-2019

1. Name of the Industry

: M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha

2. Name of the Location

: WW-I: 15 KLD STP Inlet

1. (24.0.2. 20.4. 20.1. 20.2. 20.4.

: WW-2: 15 KLD STP Outlet

3. Date of Sampling

: 23.08.2019

4. Date of Analysis

: 24.08.2019 to 29.08.2019

5. Sample Collected By

: VCSPL Representative in presence of DPCL representative

				Standard as per Schedulc-VI of EP	Analysii	Result
SL. NG.	Name of the Parameters	Unit	Testing Method	Rules, 1986 Amnd. 2015 (Discharge to Inland Surface Water)	WW-I	WW-2
1	pli	-	APHA 450011'B	6.0 - 9.0	7.16	7.4
in	Color	Hazen	AP11A 2120 B.C	en grannen mandet van en	Blackish	ÇL
3	Oquir		APIÍA 2150 B		Pungent Smell	IJ/Ō
4	Appearance		APIIA 21 0		Tutbid	Clear
5	Total Suspended Solids	mg/l	APHA 2540 D	100	53	7
6	Biochemical Oxygen Demand as BÖD (3 days at 27°C)	unfAj)	APHA 5210 B	30	37	
7	Chemical Oxygen Demand (COD)	mg/l	APITA 5220 C	250	156	20
S	Oil & Grease	anity.	API IA 5520 B	10	7.0	ND
ÿ	Ammonical Nitrogen as NH,-N	mg/l	APHA 4500 NH ₃ F	50	17.2	3.4
10	Total Nirrogen	n-g/l	Calculation	7.0 M-	19.64	4.82
¥ 1	Feacal Coliform	MPN/100ml	АРНА 9221 F	·····································	220	40







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WATER QUALITY REPORT AUGUST-2019

12me: 03 09 2019

I. Name of the industry

: M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha

2. Name of the Location

: WW-1: 15 KLD STP Inlet : WW-2: 15 KLD STP Outlet

3. Date of Sampling

: 27.08.2019

4. Date of Analysis

: 28.08.2019 to 02.09.2019

5. Sample Collected By

: VCSPL Representative in presence of DPCL representative

SL.	Name of the		THE COLUMN TWO IS NOT THE OWNER.	Standard as per Schedule-VI of EP	Analysis Result		
No.	Parameters	Unit	Testing Method	Rules, 1986 Amnd. 2015 (Discharge to Inland Surface Water)	WW-I	WW-2	
1	při - APHA 4500ŘÍB 6.8 -		6.0 - 9.0	7.11	7.51		
7	Color	I layed	APHA 2120 B,C	un renerga a electrica e e maganisma que prop a a qui electrada del Virgo del qual que que filo de 2,4 e de 2 que f Millore	Blackish	ĊĻ	
T .	Oderit.	and a definitely and a state of the state of	APHA 2150 B		Pungent Smell	U/O	
4	Appearance	· igrad	APHA 2110	že.	'Turbid	Clear	
F	Total Suspended Solids	med	APHA 2540 D	100	49	6	
6	Biochemical Oxygen Demand as BOD (3 days at 27°C)	mévi	APHA 5210 B	30	34	in and the second s	
7	Chemical Oxygen Demand (COD)	uéĄ	MPHA 5220 C	250	145	16	
8	Oil & Grease	nęA	APHA 5520 B	10	. 7.6	ND	
ų.	Ammonical Nitrogen as NH ₂ -N	neg/i	APHA 4500 NH _I F	56	16.4	2.8	
ŧQ.	Total Nitrogen	mg/l	Calculation	- The state of the	18.16	3.91	
§]	Feacal Coliform	MPN/100mi	APHA 9221 IF		210	53	





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AMBIENT AIR QUALITY MONITORING REPORT FOR SEPTEMBER -2019

AMRIENT	AIR QUALITY MONITORING REPORT FOR SEPTEMBER -2019 .
	M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha
Client Name & Address Work Order No.	4800044480, Date 18.07.2019
Reference No.	Envlab/19/R-4805
Type of Sample	Ambient Air Sample
Sampling Location	AAOMS-1; Colony Area
Sampling Done by	Mr. Manoj Patra
Sampling Duration	24brs
Monitoring Instrument	RDS (APM 460), FPS (APM 550) Envirotech, CO Analyzor, VOC Sampler
	PARAMETERS

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Date	PAI _N (pg/ni ³)	PM _{2.5} (pg/m ²)	SO ₂ (jug/m²)	NOx (pq:/m²)	(mg/m²)	ŃП, (на/m³)	Oş (អន្តរំបា ^{រី})	Pb (ng/m²)	Ni (ng/m²)	As (ng/m²)	Reuzene (µg/m²)	BaP (ng/m²)
03.09.2019	51.0	26.0	8.4	13.7		21.3	4.8	BDL	BDL	BDL	BDL	BDL
06.09.2019	47.0	24.0	9.7	14.4	+-	21.7	5.1	BDL	BDL	BDL	BDL	BDL
10.09.2019	42.0	21.0	8.1	12,6		20.8	5.4	BDL	BDL	BDL	BDL	BDL
13.09.2019	50.0	26.0	10,3	15.1	**	22,4	4,9	BDL	BDL	BDL	BDL	BDI.
16.09.2019	55.0	28.0	11.5	14.8		21.6	5.5	BDL	BDL	BDL	BDL	BDL
20,09,2019	49.0	25.0	8.4	13.5		22.2	5.3.	BDL	BDL	BDL	BDL	BDL
24.09.2019	41.0	22.0	7.9	13.2	0.18	22.5	5.0	BDL	BDL	BDL	BDL	BDL
27:09.2019	45.0	23.0	7.6	12.4	0.20	21.6	4.6	BDL	BDL	BDL	BDL	BDL
Monthly Average	47.5	24.4	9.0	13.7	0.19	21.8	5.1	BDL.	BDL	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	4	400	100	1	20	6	5	1
METHOD TEST	Gravinustic ISS132: Fart 25	Gravimetric EPA 1998	Improved West & Ceake Stelled IS S182 (Part- 2) RA2017	Modified Jacob & Hockhelsor Method IS 5182 (Part-6) RA2017	Non Dispersive Infrared Method IS 5182 (Part-10):1999	Isdo Phenol Blue Method Air Sampling , 3rd Edn. By Japaes P. Lodige (Method-191)	Chemical Method Air Sampling. 3rd Edu.By James P. Lodge (Method-411)	15	AAS Maike Sidz(Pari -22);2004 4	Gus Chromadoge aphe IS 5182 (Part- 11):2004	Solvent Extraction 18 5182 (Part- 12):200:

Date they profesora

Client Name & Address	M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha
Work Order No.	4800044480, Date 18.07.2019
Reference No.	Envlab/19/R-4806
Type of Sample	Ambieut Air Sample
Sampling Location	AAQMS-2: Near BMH 1
Sampling Done by	Mr. Manoj Patra
Sampling Duration	24hrs
Monitoring Instrument	RDS (APM 460), FPS (APM 550) Envirotech, CO Analyzer, VOC Sampler

	PARAMETERS										and an internal second second second	
Date	PM _m (ug/m²)	PNI ₂₅ (µg/m²)	SO₂ (µg/m²)	NOx (µg/m²)	CO (mg/m²)	NHs (gg/m³)	(4.18/m²)	(hi8,tar _s) (5p	Ni (ng/m²)	As (ng/m²)	Beuzenc (µg/m²)	RaP (ng/m²)
03.09.2019	58.0	30.0	10.8	16,3		24.1	6.9	BDL	BDL	BDL	BDL	BDL
06.09.2019	52.0	26.0	11.2	15.7	###	25.2	7,2	BDL	BDL	BDL	BDL	BDL
0.09.2019	55.0	28.0	9.6	13.8		24.7	7,5	BDL	BDL	BDL	BDL	BDL
13.09.2019	66.0	34.0	11.7	16.4		22.6	8.2	BDL	BDL	BDL	BDL	BDL
16.09.2019	62.0	31.0	12,1	17.6		23.5	6.8	BDL	BDL	BDL	BDL	BDL
20,09,2019	56.0	29.0	11.5	15.9		22.8	7.2	BDL	BDL	BDL	BDL	BDL
24.09.2019	48.0	24.0	9.8	12.7	0.18	21.7	6.5	BDL	BDL	BDL	BDL	BDL
27.09,2019	50.0	26.0	10,4	14.1	0.21	22.3	6.2	BDL.	BDL	BDL	BDL	BDL
Monthly Ayerage	55.9	28.5	10.9	15.3	0.20	23.4	7.1	BDL	BDI.	BDL	BDL	BDL
NAAQ Standard	106	66	80	80	4	400	100	I	26	6	5]
TEST METHOO	Generalise IS 5882: Part 23	Gravimetric 1:PA 1998	Amproved West & Grake Method 18 5183 (Fact- 2) 12 & 2017	Modelled Jacob & Hechielser Method (S 5182 (Part-6) RA2017	Non Dispersive Infrared Method IS 3183 (Parti tipe 1999)	Indo Phenot Blue Method Air Sampling , Ird Relably Indies P. Leitge (Method-401)	Chemical Method Air Sampling . 3rd Edudy James P. Lodge (Method-411)	AAS Method 15 5182(1-44-22)22404 19/m ¹ , C ₆ H ₆ <0.001 (4)2/m ² , Hal ² <0.0			Cas Chromato graphy 15 5181 (Part- 11):2006	Selvent Extraction IS 5182 (Part) 12):2004



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AMBIENT AIR QUALITY MONITORING REPORT FOR SEPTEMBER -2019

Client Name & Address	M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha
Work Order No.	4800044480, Date 18.07.2019
Reference No.	Envlab/19/R-4807
Type of Sample	Ambient Air Sample
Sampling Location	AAQMS-3: Near Jetty
Sampling Done by	Mr. Mano Patra
Sampling Duration	24hrs
Monitoring Instrument	RDS (APM 460), FPS (APM 550) Envirotech, CO Analyzer, VOC Sampler

						PARAMET	FERS					
Date	PM _{in} (ug/m²)	· PM _{b4} (pg/m ¹)	SO ₂ (pug/gg*)	NOx (pg/m²)	(mg/m²)	(MM/m ₂) (MH ²	O, (m/m²)	Pb (Jug/m³)	Ni (0g/m ⁵)	As (ng/m²)	Benzene (ng/m²)	BaP (og/m³)
03.09.2019	73.0	40.2	27.6	36.5	** I M	30.5	11.3	0.010	BDL	BDL	BDL	BDL
06.09.2019	70.1	38.6	27.1	37.3		32.6	13.6	0.012	BDL	BDL	BDL	BDL
10.09.2019	72.4	39.0	26.5	35.4		31.3	12.5.	0.008	BDL	BDL	BDL	BDL
13.09.2019	69.6	37.2	28.3	38.5	we.	34.2	13.7	0.014	BDL	BDL	BDL	BDL
16.09.2019	74.1	41.3	29.2	37.7		32.7	14.1	0.016	BDL	BDL	BDL	BDL
20.09.2019	69.5	38.0	26.2	34.8	**	30.8	12.8	0.009	BDL	BDL	BDL	BDI.
24.09.2019	70.1	38.1	24.6	31.5	0.40	28.7	11.2	0.007	BDL	BDL	BDL	BDL
27.09.2019	66,7	36,5	25.1	32:2	0.32	29.4	11.7	0.010	BDL	BDL	BDL	BDL
Monthly Average	78.7	38.6	26.8	35,5	0.36	31.3	12,6	110.0	BDL	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	4	400	180	ı	20	6	5	***
TEST METHOD	Grivingeric IS 5182: Part 23	Gravknetric EPA 1996	Improved West & Geske Stethed IS \$182 (Pact- 2) RA2017	Modified Jacob & Electriciser Method IS 5182 (Part-6) RA2017	Nua Dispersive Infrared Method IS 5182 (Part-10):1999	indo Pisenoi Blase Method Alt Sappiding , Jed Edia By James P. Lodge (Method-401)	Chomical Stetled Air Sampling, 3rd Main, By James P, Lodge (Method-111)	IS 5182(Part -22):2004		Gas Chromatoge uplay 15 5182 (Parti 11):2006	Solvent Extraction IS 5182 (Part- 12):2804	

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

BDL Values: SO₂<4 μg/m³, NO₃<9 μg/m³, O₃<4 μg/m³, NH₃<20 μg/m³, NH<0.01 ng/m³, As < 0.001 ng/m², Co-U₃ (O₄<0.001 μg/m², BaP<0.002 ng/m³, Ph<0.001 μg/m², CO-<0.1 mg/m², CO-<0.1 mg/m², CO-<0.1 mg/m², CO-<0.001 μg/m², CO-<0.001 μg/m², CO-<0.001 μg/m², CO-U₃ (O₄<0.001 μg/m², CO-U₃ (O₄<0.



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isiontek Consultancy Services Pvt. Ltd. (An Enviro Engineering Consulting Cell)

ISQ 14001 : 2015 DISAS 18001 - 2007

Date: 04 / 10 3.04 4

AMBIENT	AIR QUALITY MOINTORING REPURT FOR SEPTEMBER -2012	4
Client Name & Address	M/s The Dhaura Port Company Limited, Dosinga, Bhadrak, Odisha	1 3
Work Order No.	4800044486, Date 18.07.2019	-
Reference No.	Envisber 9/R-4808	
Type of Sample	Ambient Air Sample	لي ا
Sampling Location	AAQMS-4: Dosinga Village	7
Sampling Done by	Mr. Manoj Patra	1
Sampling Duration	24 hrs	- 5
Monitoring Instrument	RDS (APM 460), FPS (APM 550) Envirotech, CO Analyzer, VOC Sampler	Ç

representation and exemples of the construction of the constructio	n de controlle e l'accipate de colonidate de controlle de la c	4				PARAMET	ERS			Maring Stranger of Stranger on the Company of the Stranger of	p	
Date	PM ₁₄ (µg/m ²)	PM ₁₃ (pg/m²)	ŠO; (ug/m³)	NOx (pg/m²)	CO (mg/m³)	NH, (pg/m²)	O; (µg/in ³)	Pb (pg/m²)	Ni (ng/m³)	As (ng/m²)	Benzene (ug/m²)	BaP (ng/m²)
03.09.2019	62.0	32.0	10.8	18.2		21.6	5.5	BDL	BDL	BDL	BDL	BDL
06.09.2019	68.0	35.0	11.3	1.7.5	فغو	21,2	5.1	0.009	BDL	BDL	BDL	BDL
10.09.2019	56.0	30.0	9.6	15.7	<u></u>	22,8	6,3	BDL	BDL	BDL	BDL	BDL
13.09.2019	69.0	34.0	11.4	19.3		21.9	5.8	0.006	BDL	BDL	BDL	BDL
16.09.2019	76.0	38.0	12.5	18.6	57	23.7	6,4	0.011	BDL	BDL	BDL	BDL
20.09.2019	60.0	31.0	10.2	[6.]	7.7	22.5	5,0	BDL	BDL	BDL	BDL	BDL
24.09.2019	54.0	27.0	9.8	14.6	0.21	21.8	5.8	BOL	BDL	BDL	EDL	BDL
27.09.2019	57.0	29.0	10.1	15.3	0.17	22.6	6.1	BDL	BDL.	BOL	BDL	BDL
Montaly Average	62.8	32.0	10.7	16.9	0.19	22.3	5.8	6.009	BDJ.	BDL	BDL.	BDL.
NAAQ Standard	100	60	80	80	4	400	100	1	20	6	5	processor pressor money
TEST METHOD	Gravimetrie IS \$1826 Paiel 23	Gravimetrie RPA 1998	improved West & Gessle Meibed IS 5182 (Part- 1) R3 2017	Modified Jacob & Hochheiser Method IS 5182 (Pari-6) RA2817	Non Dispersive Infraced Afathod IS 5182 (Pari-10):1999	Inda Phenol Bhie Method Air Shinpling 3rd Pan By James P: Lodge (Nethod-101)	Chemical Asidhod Air Sampling , 3rd Edully James P. Lodge (Method 411)	AAS Niethod 18 5(82(Pari 22);2004		Gas Curamatagr aphy IS SIR2 (Part- 11):2006	Solvent Extraction IS 5182 (Part- [2) 2004	

N.B. "NAAQ- National Ambient Air Quality Standard as per 18¹⁹ Nov. 2009 Gatt, Notification

BDL Values: SO₂ = 4 μg/m², NO₂ < 9 μg/m², O₃ = 4 μg/m², NH₃ < 20 μg/m², Ni<0.01 ng/m², As < 0.001 ng/m², C₃H₅<0.001 μg/m², BaP<0.002 μg/m², BaP<0.002 μg/m², C₃H₅<0.001 μg/m².



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AMBIENT AIR QUALITY MONITORING REPORT FOR SEPTEMBER -2019

Client Name & Address	Mis The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha
Work Order No.	4800044488, Date 18.07.2019
Reference No.	Envlab/19/R-4809
Type of Sample	Ambient Air Sample
Sampling Location	AAQMS-5: Kanak Prasad Village
Sampling Done by	Mr. Manoj Patra
Sampling Duration	24hrs
Monitoring Instrument	RDS (APM 460), FPS (APM 550) Envirotech, CO Analyzer, VOC Sampler

	- Control Cont	Anna di Katana Anna di Anna di				PARAMET	CERS		ada a de monta de la monta de la constante de			
Date	PM _[0] (μg/m²)	'PM ₂₅ (pg/m')	SO ₂ (jug/m³)	(hfb/m ₂) NOx	(mg/m²)	N(l) (µg/m²)	O ₃ (eg/m²)	Ph (µg/m³)	Ni (ng/m³)	As (ng/m²)	Benzese (jug/m²)	Bul- (ng/m²)
03,09,2019	50.0	25.0	6,6	11.5		BDL	BDL	BDL	BDL	BDL.	BDL	BDL
06.09.2019	43,0	22.0	7.1.	10.6	***	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10.09.2019	47.0	24.0	5.8	10.9		BDL	BDL	BDL	BDL	BDL	BDL	BDL
13.09.2019	59.0	29.0	7.7	12.8		BDL	BDL	BDL	BDL	BDL	BDL	BDL
16.09.2019	52.0	26.2	6.2	10.0	**	BDL	BDL	BDL	BDL	BDL	BDL	BDL
20,09,2019	46.8	23.0.	6.5	10.8	**	BDI.	BDL	BDL	BDL	BDL	BDL	BDL
24.09.2019	44.0	22.0	6.2	10.8	0.15	BDL	BDL	BDL	EDL	BDL	BDL	BDL
27.09.2019	48,0	25.0	6.7	11:3	0.13	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Monthly Average	48.7	24.5	6.6	11,1	0.14	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	4	#6 0	100	l	20	6	.5	1
METHOD TEST	Gravinsetric IS \$1825 Part 23	Gravingetric EPA 1998	Improved West & Geske Method IS 5182 (Pact- 3) RA2017	Modified Inceb & Hickbelser Method 15 5182 (Part-6) RA2017	Non Dispessive Infrared Method 15 8182 (Part, 16):1999	Incid Phenoul Marc Method Air Sampling , Jell Ede.Ry Joines P. Lodge (Method-161)	Chemical Method Air Sainphing , Seil Eduilly Junes P. Ladge (Method-411)	S AAS Method 3 1S 5182[Part -22];2004 1S		Gas Chresastogr aphr is 5182 (Part- [1]:2006	Sulvent Extraction IS 5182 (Part- 12):2404	

N.B. "NAAQ- National Ambient Air Quality Standard as per 18th Nov. 2009 Gat. Notification

BDL Values. SO- 1 µg/m². NO. 9 µg/m². NI₁<20 µg/m². Ni<0.01 ng/m². Az < 0.001 ng/m². C.H.<0.001 µg/m². BaP<0.002 µg/m². Pe<0.001

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AMBIENT AIR QUALITY MONITORING REPORT FOR SEPTEMBER -2019

Client Name & Address	M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha
Work Order No.	4800044480, Date 18:07:2019
Reference No.	Envlab/19/R-4810
Type of Sample	Ambient Air Sample
Sampling Location	AAQMS-6: Eco Sensitive zone (Near Bhitarkanika)
Sampling Done by	Mr. Manoj Putra
Sampling Duration	24hrs
Monitoring Instrument	RDS (APM 460), PPS (APM 550) Envirotech, CO Attalyzer, VOC Sampler

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Date	PM _{to} (grg/m²)	PM ₂₅ (µg/m²)	\$Օչ (բայա ¹)	NOx (μβ/m²)	CO (mg/m³)	Ο ₃	NH., (##/m²)	Ph (rig/m²)	As (ug/m²)	Ni (ag/m³)	Benzene (µg/m²)	BaP (ng/m²)
03.09.2019	35.0	18.0	4.6	10.3		BDL	BDL	BDL.	BDL.	BDL	BDL	BDL
06.09.2019	38.0	20.0	BDL	9.6		BDL	BDL	BDL	BDL	BDL	BDL	BDL
10.09.2019	32.0	17.0	BDL	BDL		BDL	BDL	BDL	BUL	BDL.	BDL	BDL
13.09.2019	39.0	20.0	5.4	10.7		BDL	BDL	BDL	BDL	BDL	BDL	BDL
16.09.2019	36.0	19.0	BDL	9.8		BDL	BDL	BDL	BDL	BDL	BDL	BDL
20.09.2019	31.0	16.0	BDL	BDL		BDL	BDL	BDL.	BDL	BDL	BDL	BDL
24.09.2019	44.0	22.0	4.9	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
27.09.2019	39.0	19,0	4.3	BDL	BDL	BDL	BDL	BDL.	BDL	BDL.	BDL	BDL
Monthly Average	36.8	18.9	4.8	10.1	BDL	BDL	BDL	BDL.	BDL	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	4	160	400	1	6	20	5	ı
TEST METHOD	Grusimetric IS 8182: Part 23	Gravienstric EPA 1998	Improved Wed & Geaks Method IS 5182 (Part- 2) RA2017	Modified Jacob & Hochheiser Method IS 5:82 (Part-6) R-42617	Non Dispersive Infrared Method 48 5182 (Part-10):1599	Chemical Aleilod Air Sampling Fid Edn. By Juntes P. Lodge (Method-411)	Indo Phenol Blue Method Air Sampling Ard Life By Jomes P, Ludge (Mellsod-101)	AAS Mydiod IN SIR ((Paři -22); 2004		Gas Chronsatogr aphy IS 5182 (Part- 11):2006	Solvent Extractlo IS \$182 (Part: 12):2004	

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

BDL Values: SQ₃ = 4 µg/m², NO_X = 9 µg/m², O₁=4 µg/m², NI₄ < 20 µg/m², Ni<0.01 ag/m². As < 0.001 ng/m², C₆H₆<0.001 µg/m², BaP<0.002 ag/m², Pb<0.001 µg/m², C₆O-0.1 ng/m²



Pht No.-W-22W33. Chandaka Industrial Estate, Prate. Buthaneswar-751924. Dist-Kharda. Odkita tel.: 7759017905 B-mail : sistemasion explore, visionickiningapatteem, visionickiningatoos ee,in, Visitus at www.wegkorp Cammind Bares Foreignmens





(An Enviro Engineering Consulting Cell)



ISO 14001 : 2004 OHSAS 18001 : 2007

Ret. emplate 19/12- CHELL

Dute: 50/10/2019

NOISE QUALITY ANALYSIS REPORT FOR SEPTEMBER-2019

Client Name & Address	M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha
Work Order No.	4800044480, Date 18.07.2019
Analysis No.	Envlab/19/R-4811
Type of Sample	Noise Sample
Sampling Done by	Mr. Samyashree Nayak

SI.	Date of		NL D	ay Time	IB(A)	NL Night Time dB(A)			
No.	Monitoring	Location	MAX	MIN	AVG.	MAX	MIN	AVG.	
1	27.09.2019	Near Jetty (I)	73.6	66.4	70.0	69.0	61.6	65.3	
2	24.09.2019	Near BMH (I)	71.0	62.0	66.5	67.6	56.4	62.0	
3	25.09,2019	Near Colony (R)	52.6	49.1	50.9	45.3	41.0	43.2	
4	26.09.2019	Dosinga Village (R)	52.1	48.6	50.4	46.3	37.5	41.9	
Ś	28.09,2019	Kanak Prasad Village(R)	53.3	49.5	51.4	46.0	39.0	42.5	
ő	30.09.2019	Eco Sensitive Zone	50.6	43.5	47.1	41.3	30.7	36.0	

^{*}NL- Noise Level, I- Industrial, R-Residential

National Standard of Noise Level

	4,744,144	12,4,4,4,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	· ·			
Area Code	Category of Area/ Zone	Permissible Limit in dB(A)				
_	• •	Day Time	Night Time			
A	Industrial Area	75	70			
В	Commercial Area	65				
C	Residential Area	55	/15			
D	Silence Zone	50	40			







(An Enviro Engineering Consulting Cell)



ISO 14001 : 2004 OHSAS 18001 : 2007

Ref: Envlab/19/R-4812

Date: 04.10.2019

Client Name & Address	M/s The Dhamra Port Company Li	imited, Dosinga, Bhadrak, Odisha
Work Order No.	4800044480, Date 18.07.2019	
Reference No.	Envlab/19/R-4812	
Type of Sample	Waste Water Sample	
Sampling Location	WW-1: 140 KLD STP Inlet;	WW-2: 140 KLD STP Outlet
Date of Sampling	09.09.2019	
Date of Analysis	10.09,2019 to 14.09,2019	
Sampling Done by	Mr. Samyashree Nayak	The state of the s

	Name of the	77		Standard as per Schedule-VI of EP Rules, 1986 Amnd.	Analysis Result		
SL. No.	Parameters	Unit	Unit Testing Method Rule 2015 Inland		WW- 1	WW-2	
1	pH		APHA 4500H B	6.0 - 9.0	7,12	7,53	
2	Color	Hazen	APHA 2120 B.C	AT	Blackish	Ċī.	
3	Odour	<u> </u>	APHA 2150 B	Pungent Smell Turbid		U/O Cleur	
4	Арреаганое	77-	APHA 2110				
 5	Total Suspended Solids	mg/i	APHA 2540 D	100	81	9	
б	Biochemical Oxygen Demand as BOD (3 days at 27°C)	mg/l	APHA 5210 B	30	69	6.5	
7	Chemical Oxygen Demand (COD)	mg/l	арна 5220 C	250	216	24	
8	Oil & Grease	mg/l	APFIA 5520 B	10	17.2	2.4	
9	Ammonical Nitrogen as NH ₃ -N	mg/l	APHA 4500 NH ₃ F	50	15.6	8.4	
10	Total Nitrogen	mg/l	Calculation		18,48	10.37	
11	Feacal Coliform	MPN/(00ml	APHA 9221 E	ры п	220	-41	







(An Enviro Engineering Consulting Cell)



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Ref: Envlab/19/R-4813

Date: 04.10.2019

Client Name & Address	M/s The Dhamra Port Company L	imited, Dosinga, Bhadrak, Odisha
Work Order No.	4800044480, Date 18.07.2019	
Reference No.	Envlab/19/R-4813	
Type of Sample	Waste Water Sample	
Sampling Location	WW-1: 140 KLD STP Inlet;	WW-2: 140 KLD STP Outlet
Date of Sampling	26.09.2019	
Date of Analysis	27.09.2019 to 01.10.2019	
Sampling Done by	Mr. Samyashree Nayak	

SL. No.	Name of the Parameters	W 1 243		Standard as per Schedule-VI of EP Rules, 1986 Amod.	Analysis Result		
		Unit	Testing Method	2015 (Discharge to Inland Surface Water)	WW-1	WW-2	
Ĭ	pH	A STATE OF THE OWNER O	APHA 4500H B	6.0 - 9.0	7.05	7,39	
2	Color	Hazen	APHA 2120 B,C	RADINICALIA CANDINA MANAGAMA AND CANDINA C	Blackish	CI.	
3	Odour		APHA 2150 B		Püngem Smell	UΟ	
4	Appearance	-	APHA 2110	eres	Turbid	Clear	
<i>Š</i> .	Total Suspended Solids	DJ\$/I	APHA 2540 D	100	97	11	
ò	Biochemical Oxygen Demand as BOD (3 days at 27°C)	ing/l	APIKA 5210 B	30	75	7	
7	Chêmical Oxygen Demand (COD)	mg/l	APHA 5220 C	250	240	32	
8	Oil & Grease	mg/l	APHA 5520 B	10	18.4	2.6	
9	Ammonical Nitrogen as NH ₃ -N	mg/l	APHA 4500 NH ₃ F	50	16,8	9.6	
10	Total Nitrogen	mg/l	Calculation	****	19.76	12.14	
11	Feacal Coliform	MPN/100ml	APHA 9221 E	3-3	280	58	







(An Enviro Engineering Consulting Cell)



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Ref: Envlab/19/R-4814

Date: 04.10.2019

Client Name & Address	M/s The Dhamra Port Company I	Limited, Dosinga, Bhadrak, Odisha
Work Order No.	4800044480, Date 18.07.2019	
Reference No.	Envlab/19/R-4814	A PRINCIPLE OF THE PRIN
Type of Sample	Waste Water Sample	
Sampling Location	WW-1: 15 KLD STP Inlet;	WW-2: 15 KLD STP Outlet
Date of Sampling	09.09.2019	
Date of Analysis	10.09,2019 to 14.09,2019	
Sampling Done by	Mr. Samyashree Nayak	

	Name of the Parameters	100	Toppicolate and	Standard as per Schedule-VI of EP	Analysis Result		
SL. No.		Unit	Testing Method	Rules, 1986 Amnd. 2015 (Discharge to Inland Surface Water)	WW-1	WW-2	
İ	рH	***	APFLA 4500H B	6.0 - 9.0	7.13	7.51	
an D September	Color	Hazon	APHA 2120 B.C	eg eja	Blackish	ĆL.	
3	Odpur		APHA 2150 B	Funge Smel		uxò	
4	Appearance	**	APHA 2110	-	Turbid	Clear	
<u>.</u>	Total Suspended Solids	Ngm	APILA 2340 D	100	46	6.4	
6	Biochemical Oxygen Demand as BOD (3 days at 27°C)	ngl	APHA 5210 B	30	36	4 .[
7	Chemical Oxygen Demand (COD)	mg/l	APHA 5220 C	250	138	20	
8	Oil & Grease	mg/l	apha 5520 B	10	7.4	ДK	
9	Ammonical Nitrogen as NH ₂ -N	mg/l	APHA 4500 NH,F	50	13.4	2.42	
10	Total Nitrogen	ගනු'!	Calculation		16,32	3.86	
ij	Feacal Coliform	MPN/100ml	API1A 9221 E	₩-M	130	41	







(An Ensiro Engineering Consulting Cell)



1507 | 4001 : 2004 (475, vs. 1300) | 2007

Ref: Envlab/19/R-4815

Date: 04.10.2019

Client Name & Address	M/s The Dhamra Port Company	Limited, Dosinga, Bhadrak, Odisha
Work Order No.	4800044480, Date 18.07.2019	
Reference No.	Envlab/19/R-4815	
Type of Sample	Waste Water Sample	
Sampling Location	WW-1: 15 KLD STP Inlet;	WW-2: 15 KLD STP Outlet
Date of Sampling	26.09.2019	100 AVI
Date of Analysis	27.09.2019 to 01.10.2019	
Sampling Done by	Mr. Samyashree Nayak	

SL.	Name of the Parameters	1	del proposed environment de la constantia de la constantia del con	Standard as per Schedule-VI of EP	Analysis Result	
No.		Unit	Unit Testing Method Rules, 1986 Am 2015 (Discharg, Inland Surface W		WW-1	WW-2
1	pH	_	APINA 4500H*B	6.0 - 9.0	6.97	7,42
2	Color	Hazen	APHA 2120 B,C	Hartin	Płackish	ČL
3	Ödgur	- ight-positivities	APHA 2150 I3		Pungent Smell	UMO
4	Appearance	-	APHA 2110	177 ,	Turbid	Clear
5	Total Suspended Solids	mg/I	APHA 2540 ID	100	51	6.8
6	Biochemical Oxygen Demand as BOD (3 days at 27°C)	mg/l	APHA 5210 B	30	40	5.4
7	Chemical Oxygen Demand (COD)	mg/l	АРНА 5220 C	250	. 146	32
8	Oil & Grease	mg/i	APHA 5520 B	10	6.8	MD
ġ	Ammonical Nitrogen as NH ₃ -N	l\gm	APHA 4500 NH ₃ F	50	14,6	2.8
10	Total Nitrogen	mg/l	Calculation	TANKET.	18.75	5.22
11	Feacal Coliforn	MPN/100ml	APHA 9221 E		240	48







(An Enviro Engineering Consulting Cell)



284 V 1-40001 : 20004 CYLIS AN EXERCI : 2007

Ref: Envlab/19/R-4828

Date: 04.10.2019

MARINE SURFACE WATER QUALITY REPORT

Client Name & Address	M/s The Dhamra Port Company Limite	d, Dosinga, Bhadrak, Odisha
Work Order No.	4800044480, Date 18.07.2019	The state of the s
Reference No.	Envlab/19/R-4828	$\frac{1}{2} \left(\frac{1}{2} \left$
Type of Sample	Marine Sample	
Sampling Location	MSW-1: Dhamra river mouth; MSW-3: Liquid/gas cargo berth face;	MSW-2: Dry bulk cargo berth face MSW-4: Along channel at 4km
Date of Sampling	20.09.2019	And the state of t
Date of Analysis	21.09.2019 to 30.09.2019	
Sampling Done by	Mr. Samyashree Nayak	

M.,	14 day (6)	Unii E	Market and the second second	Analysis Result				
νo.	Name of the Parameters		Testing Method	MSW-I	MSW-2	MSW-3	MSW-4	
L	Celour	Hazen	APHA 2120 B	5	10	5	5	
2	Odoer		APHA 2150B	Agreeable	Agreeable	Agrecable	Agrecable	
a a	Tempéraluc		APHA 2550 B	26.6	27.0	25.6	24.3	
4	Turbidity		APILA 2130 B	11.2	37.8	16.4	17.0	
<u>†</u> 5	off	7 7 77 77	APHA 4500H B	8.3	8.07	7.89	8.18	
а б	Electrical Conductivity		APHA 2510 B	51300	41590	27225	¥685U	
P	Salinity		APHA 2520 B	33910	29113	19057	32795	
	Total Suspended Solids	A.F.	APHA 2540 D	46	49	55	32	
8 9	Total dissolved solids	SETHERT	APHA 2540 C	34884	28281	18513	31858	
	The state of the s	mg/	Al'HA 2340 C	697	2836	1860	3859	
10	Total Hardness	me/i	APIJA 3500 Ca B	139	139	930	837	
11	Calcium Hardness	mgr mgf	APHA 3500Mg B	555	2697	930	3022	
12	Magnesium Hardness	nogi nogi	APINA 3500Mg B	3318	11060	7410	12166	
13	Chloride (as Cl)		APRIA 4500 O'C	6.8	6.3	6.5	6.4	
14	Dissolved Oxygen	mg/l					41.8	
ĮŞ.	Biochemical Oxygen Demand (3 days at 27°C)	លស្កា	APHA 5210 B	<1.8	<1.8	<1.8		
16	Chemical Oxygen Demand (COD)	mg/l	APHA 5220 C	24	20	28	26	
17	Oil & Grease	mg/l	APHA 5520 B	2.4	3.2	4,4	ND	
18	Dissolved phosphates (as PO ₄)	mg/l	APHA 4500 P.D	BDL	BDL	BDL.	BDL	
19	Sulphate (as SO _a)	mg/l	APHA 4500 SO₄ E	223	258	223	171	
20	Narite (45 NO ₂)	mg/l	APHA 4500 NO ₂ B	BDL	BDL	BDL	BDL	
21	Nitrate (as NO ₃)	mg/l	APHA 4500 NO(E	3.1	2.6	2.3	2.1	
22	Ammonical Nitrogen (as NH ₂ -N)	mg/l	APHA 4500 NH ₃ F	1.0	IJ	1.0	1.6	
23	Total Nitrigen	nag/l	By Calculation	4.50	4.28	3.42	4.34	
24	Total Chromium	lgm	APHA 3111 B	BDL	BDI.	DOL.	BDL	
25	Phenolic Compounds (as	mg/l	API4A 5530 B.D	BDL	BDL	BDI,	BD).	
	C ₀ 11(OH) Hexavalent chromium (as Cr 15)	rêg/l	APHA 3500Cr B	BDL	BDL	BOL	HOL.	
20 27	Copper	mg/l	APHA 3111 B	BOL	BDL	BOL	BDI.	
28	Cadmium	mg/l	APHA 3111 B	BDL	BDL	BDL	13131.	
<u>29</u>	Mercury	ıng/i	APHA 3500 Hg	BDL.	BDL	BDL	BOL	
30	Floating material	mg/l	APHA 2530 B	1.6	2,2	2.0	ND	
<u>31</u> 31	Petroleum Hydrocarbon	mg/i	APHA 5520 F	ND	סא	D	ND	
32	Faecal coliform	MPNULOOM	APHA 9221 E	<1.8	<1.8	3.6	<1.8	

BDL (Below Departable Depts) Values: Ca 0.02 mg/l., Call5OH 0.05 mg/l.

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(An Enviro Engineering Consulting Cell)



ISO 14001 2004 OHSAS 18001 2007

Ref: Envlab/19/R-4829

Date: 04.10.2019

MARINE SURFACE WATER QUALITY REPORT

Client Name & Address	M/s The Dhamra Port Company Limited, D	osinga, Bhadrak, Odisha
Work Order No.	4800044480, Date 18.07.2019	and the second s
Reference No.	Enviab/19/R-4829	The state of the s
Type of Sample	Marine Sample	Control of the Contro
Sampling Location	MSW-5: Along channel at 8 km; MSW-7: Dredging dumping site inside sea:	MSW-6: Along channel at 12 km MSW-8: Near Kanika island
Date of Sampling	20.09.2019	Control of the Contro
Date of Analysis	21.09.2019 to 30.09.2019	and the state of t
Sampling Done by	Mr. Samyashrec Nayak	A STATE OF THE STA

SL.			Testing Method	Analysis Result				
vo.	Name of the Parameters	Unit '		MSW-5	MSW-6	MSW-7	MSW-8	
	Colour	Hazen	APIIA 2120 B	<5.0	<5.0	10	10	
-	Glost		APIIA 2150B	Agrecable	Agreeable	Agrecable	Agrecable	
-	The second secon		APITA 2550 B	24	24.5	25.8	23.7	
3	Temperature		APHA 2130 B	5.8	4.1	10.3	10,2	
4 5	Turbidity oH	and the state of t	APHA 4500H B	8.14	7.74	7.78	7,81	
	Electrical Conductivity		APHA 2510 B	43900	16700	25280	23400	
6		The state of the s	APHA 2520 B	30732	11690	17696	16385	
7	Salimity Total Suspended Solids		APHA 2540 D	33	27	68	48	
8	Total dissolved solids		APHA 2540 C	29852	11356	17190	15912	
	Total Hardness		APHA 2340 C	3720	3534	1627	1302	
10	The state of the s	mg/t	APITA 3500 C2 B	351	744	232	232	
11	Calcium Hardness Magnesium Hardness	mg/l	APHA 3500Mg B	3069	2325	1395	1069	
12	A CONTRACTOR OF THE PROPERTY O	រម្លេក	APHA 3500Mg B	12719	1327	5530	4977	
13	Chloride (as Cl)	mg!	APHA 4500 O'C	6.5	6.9	5.7	5.6	
14	Dissolved Oxygen Biochemical Oxygen Demand (3	mg/l	APHA 5210 B	<1.8	<1.8	₹1.8	≺1.8	
16	days at 27°C) Chemical Oxygen Demand	mig/l	APHA 5220 C	16	16	14	18	
	(COD)		APHA 5520 B	DO	DMD	4.8	ND	
17	Oil & Grease	mg/L	APHA 4500 P.D	BDL	BDL	BDL	BDI	
18	Dissolved phosphates (as PO ₄)	mg/l	APHA 4500 SO, ² E	285	234	271	201	
19	Suiphate (as SO ₂)	nig/l	APHA 4500 NO ₂ B	BDL	BDL	BDL	BDL	
20	Nitrite (as NO ₂)	rgi	APHA 4500 NO ₃ E	1.9	2.4	2.7	2.6	
21	Nitrate (as NO ₃)	mg/l	APHA 4500 NH ₃ F	1,16	0.96	1.12	1	
22	Ammonical Nitrogen (as NH ₃ -N)	mgs [†]	By Calculation	3.02	3.24	4.10	3.72	
23	Total Nitrogen	mg/l	APHA 3111 B	BOL	BOL	BDL	BDL.	
24	Total Chromium Phenolic Compounds (as	mg/l mg/l	APHA 5530 B.D	BDL	13171.	BOL	BDL	
25	C.H.OD	27/2	§	BOL	BDL	BDL	BDL	
26	Hexavalent chromium (as Cr + ')	mg/l	APHA 3500Cr B APHA 3111 B	BDL	BDL.	BDL	BDL	
27	Copper	mg/l	APHA 3111 B	BDL.	BDL	BDL	BDI.	
28	Cademum	ngd asi	APLIA 3500 Hg	BDL	BDI.	BOI.	1301.	
29	Mercury	mg/l	APHA 2330 B	ND	DN D	1.6	ND	
30	Floating material	mg/l		ND	ND	ND	NIX	
31	Petroleum Hydrocarbon	nag/l	APHA 5520 F				3.7	
32	Faccal coliform BDL (Below Describes Vines) Values:	MPN/100ml	APITA 9221 E	2.0	2.0	<1.8		

Plot No.-M-22 — Chapalika Industrial Estate, Paris, Trinbuneswar-751024, Dist-Khapala, Odisho Tel. : 775201 7065 LA E-mail: Vikipilekki Koplong, vrsionilekima grani pasit, visioniekima yahoo on in. Visit us at: www.yespi.org

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ISO 14001 : 2004 DHSAS 18001 : 2007

Kej: Luviab/19/R=4830

Date: 04.10.2019

MARINE BOTTOM WATER QUALITY REPORT

Client Name & Address	M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha				
Work Order No.	4800044480, Date 18,07,2019				
Reference No.	Envlab/19/R-4830				
Type of Sample	Marine Sample				
Sampling Location	MBW-1: Dhamra river mouth; MBW-3: Liquid/gas cargo berth face;	MBW-2: Dry bulk cargo berth face MBW-4: Along channel at 4km			
Date of Sampling	20.09.2019	THE RESIDENCE OF THE PROPERTY			
Date of Analysis	21.09.2019 to 30.09.2019				
Sampling Done by	Mr. Samyashree Nayak				

SI.	Name of the Parameters	Unit	Testing Method	Analysis Result			
				MBW-1	MBW-2	MBW-3	MBW-4
	Colour	Hazen	APHA 2120 B	50	50	50	13
2	Ódour		APHA 2150B	Agreeable	Agreeable	Agrecable	Agrecarlo
3	Тепретацие	ď	APHA 2550 B	27.5	26,9	27.1	26.6
4	Turbidity	ทาบ	APHA 2130 B	512	95.8	59.4	19.1
5	pH pH	-	APHA 4500H'B	8.09	8.1	8.09	8,16
Ğ	Electrical Conductivity	µs/em	APITA 2510 B	47780	50900	39000	5350ü
7	Šalinity	mg/l	APHA 2520 B	33446	35630	27305	37452
8	Total Suspended Solids	mg/l	APHA 2540 D	315	259	237	221
ij	Total dissolved solids	mg/l	APHA 2540 C	32490	34612	26520	\$6380
10	Total Hardness	mg/l	APHA 2340 €	3162	3394	2650	4185
11	Calcium Hardness	e vi	APHA 3500 Ca B	465	604	372	790
12	Magnesium Hardness	mg/l	APHA 3500Mg B	2697	2790	2278	3394
13	Chloride (as Cl)	Pant	APHA 3500Mg B	11945	11834	11281	13271
14	Dissolved Oxygen	mg/l	ÁPHA 4500 O'C	5.1	5.3	5.2	¥.1
15	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	APHA 5210 B	<1.8	<1.8	<18	<1.8
16	Chemical Oxygen Demand (COD)	mg/l	APHA 5220 C	12	l Ø	14	14
17	Oil & Crease	ញ ឱ ្យ	APHA 5520 B	ND	ND	ND	ND
18	Dissolved phosphates	mg/I	APHA 4500 P.D	0.12	0.15	0.11	0.14
19	Sulphate (as SO ₄)	mg/l	APHA 4500 SO. 2- É	273	285	168	Į 7Ú
20	Nitrite (as NO ₂)	mg/l	ÀPHA 4500 NO. B	BDI.	BDL	ICES	BDL
21	Nitrate (as NO ₃)	mg/l	APHA 4500 NO, E	BDI.	BDL	BDL	Išľaľ
22	Ammonical Nitrogen (as NH ₁ -N)	mg/l	APHA 4500 NHJF	1.16	1.0	1.12	0,56
23	Total Nitrogen	Dem.	By Calculation	1.3	1.28	1.44	1.00
24	Total Chromium	mg/l	APNA 3111 B	BDL.	BOL	BOI.	BIAL,
25	Plicoolic Compounds (as C ₄ F1,OH)	`mg/l	APHA 5530 B,D	8DL	BDL	BDL	BIN.
26	Hexavalent chromium (as Cr +6)	Rún	APHA 3500Cr B	BOL	BDL	BDL.	BDŁ
27	Copper	mg/l	APHA SIII B	BDL	BDL	BDL	BOL
28	Cadmium	mg/l	APHA 3111 B	BDI.	BDL	BDL	BDL
29	Mercury	me/I	APHA 3500 Hg	BDL	BDL	вій.	13101.
30	Floating material	mg/I	APHA 2530 B	ND	ΝØ	NĎ	MD
31	Petroleum Hydrocarbon	mg/i	APHA 5520 F	ND	ND	NIX	ND
32	Fascal coliform	MPN/100ml	APHA 9221 E	1500	1300	1100	1700

DL (Bulgot Osteologie Limits) Values: Cu<0.02 mg/L, CoH5OH=0.05 mg/L Hg<0.002 mg/L Cr< 0.05 mg/L, Cd=0.01 mg/L CoS 0.05 mg/L

Vertiled by

Plot No.-M-228.23; Chandaka Industrial Estate, Palia, Bhubaneswar-751024, Dist-Khurda, Odisha Tel.: 7520.206.
H-macl: visiontek divespling, visiontekin digmail.com, vision



(An Enviro Engineering Consulting Cell)



ISO 14001 : 2004 OHSAS 18007 : 2007

Ref: Envlab/19/R-4831

Date: 04.10,2019

MARINE BOTTOM WATER QUALITY REPORT

Client Name & Address	M/s The Dhamra Port Company Limited, D	osinga, Rhadrak, Odisha
Work Order No.	4800044480, Date 18.07,2019	
Reference No.	Envlab/19/R-4831	
Type of Sample	Marine Sample	alaninantara nyerrefiliki (19) fisik (isik kataura 1 aranandak mbaharinani 1990-sikish Mikelun tahun tahun tahun tahun kataun tahun maga 1995). 🖓
Sampling Location	MBW-5: Along channel at 8 km; MBW-7: Dredging dumping site inside sea;	MBW-6: Along chaunel at 12 km MBW-8: Near Kanika island
Date of Sampling	20.09.2019	A CAMP THE COME ASSESSMENT ASSESS
Date of Analysis	21.09.2019 to 30.09.2019	
Sampling Done by	Mr. Samyashree Nayak	A STATE OF THE STA

SL.	Name of the Parameters	Unit	Testing Method	Analysis Result			
No.			r corness tracestore	MBW-5	MBW-6	MBW-7	MBW-8
1	Colour	Hazen	AP) IA 2120 B	30	5	25	20
2	Ödöng	- .	APHA 2150B	Agreeable	Agrecable	Agrocable	Agrecable
3	Temperature	l c	APHA 2550 B	24.6	25:7	25.5	24.3
. 4	Turbidity	NTU	APHA 2130 B	35.2	3.4	23.5	212
5	Hq	and the second	APHA 4500H'B	8.19	8.33	7.8	7.89
б	Electrical Conductivity	µs/cm	APHA 2516 B	46000	56100	21275	23270
7	Salinity	mg/l	APITA 2520 B	32217	39270	14892	16289
8	Total Suspended Solids	எழ்]	APHA 2540 D	229	222	2)4	217
9	Total dissolved solids	mg/l	APHA 2540 C	31280	38148	14467	15824
10	Total Hardness	mg/l	APITA 2340 C	3162	3813	1209	1395
11	Calcium Hardness	mg/l	APITA 3500 Ca B	697	1488	279	232
12	Magnesium Hardness	ng/l	APITA 3500Mg B	2464	2325	930	1162
13	Chloride (as Cl)	mg/l	APHA 3500Mg B	13794	14378	5530	5862
[4	Disselved Oxygen	mg/l	APHA 4500 O'C	4.8	5.3	5.1	5.0
15	Biochemical Oxygen Demand (3 days at 27°C)	nug/l	APHA 5210 B	<1.8	<1.8	<1.8	<1.8
16	Chemical Oxygen Demand (COD)	mg/l	APHA 5220 C	14.	14	12	1.6
17	Oil & Grease	mg/l	APHA 5520 B	ND	NĐ	ND	ŃD
18	Dissolved phosphates	rng/l	APHA-4500 P.D	0.11	0.1	0.12	0.14
19	Sulphate (as SO ₄)	mg/l	APHA 4500 SO.2 E	273	233	265	231
20	Nitrite (as NO ₂)	mg/l	APHA 4500 NO ₂ B	BOL	BDL.	BOI.	BDL
21	Nitrate (as NO ₃)	mg/l	APHA 4500 NO. E	BDI.	BDL	BDI	BDL
22	Ammonical Nitrogen (as NH ₂ -N)	mg/l	APHA 4500 NH ₃ F	0.84	1.0	1.18	0.94
23	Total Nitrogen	mg/l	By Calculation	1.12	1.26	1.34	1.16
24	Total Chromium	, mg/l	APHA 3111 B	BDL	BDL	RDL	Biji.
25	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	APHA 5530 B.D	BDL	BOL	BIXL	BOL
26	Hexavalent chromium (as Cr +6)	ang/l	APHA 3500CrB	BDL	BDL.	BEAL	BDL
27	Соррсе	mg/l	APHA 3111 B	BOL	BDL	BDL	BIXL
28	Cadmium	mg/l	APHA 3111 B	BDL	BO.	BDL	BDL
29	Mercury	mg/l	APHA 3500 Hg	BDL	BOL	BDI.	BDL
30	Floating material	mg/l	APHA 2530 B	ND CIN	ND	CIN	ND
31	Petroleum Flydrocarbon	mg/l	APHA 5520 F	ND	ND	QN	SAL)
32	Faccal coliform DL (Relow Brown Reference) Volume (MPN/100ml	APHÀ 9221 E	2200	2100	1500	1700

BDL (Below Equipments) Values: Cu<0.02 mg/L, C6H5OH<0.05 mg/L Hg<0.002 mg/L Cr< 0.05mg/L, Cd<0.01 mg/L

Herified by

od No.-M-2262 i Chandaka Industriul Estate, Patia. Bhubeneswar-751024. Dist-Kharda, Odisha Tel. : V57M790 Qrupin i Vanjajek a vesjil org. visioatek in a ganail com, visioatek in a yahoo coʻin. Visit us at: www.reshi org.

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ISO 14001 : 2004 DHSA3 18001 : 2007

Ref: Envlab/19/R-4832

Date: 04.10.2019

SEA SEDIMENT ANALYSIS REPORT

Client Name & Address	M/s The Dhamra Port Company Lin	nited, Dosinga, Bhadrak, Odisha			
Work Order No.	4800044480, Date 18,07,2019				
Reference No.	Enviab/19/R-4832				
Type of Sample	Sea Sediment Sample				
Sampling Location	SS-1: Dhamra river mouth; SS-3: Liquid/gas cargo berth face;	SS-2: Dry bulk cargo berth face SS-4: Along channel at 4km			
Date of Sampling	20.09.2019	A STATE OF THE PARTY OF THE PAR			
Date of Analysis	21.09.2019 to 39.09.2019	All of the state o			
Sampling Done by	Mr. Samyashree Nayak	The state of the s			

140.	Name of the Farameters	Unit	Testing Method		Analysis Result			
	position of the partition of	CARRE	one testing laternon		SS-2	\$5-3	SS-4	
Ì	pH	<u></u>	IS:2720(P-26):1987	7.41	7.21	6.4	7.20	
2	Electrical Conductivity	µs√cm	IS:14767:2000	925	412	725	70.2	
3	Organic Matter	%	VCSPL/SOP/SOIL/05	3.37	ND	0.02	0.93	
4	Moisture Content	9%	IS 2720 (Part-2) 1973	6.64	0.22	0.42	0.32	
Ŝ	Chloride	mg/kg	USDA:1954-Reaffirmed 2010	955	80	. 840	28	
6	Sulphate	ms/kg		20.8	21.0	12.5	12.1	
7	Sulphide	mg/kg	Method of analysis of	BDL.	BDL	NO	ND	
8	Phosphate	mg/kg	Soil by HLS. Fandon	BDL	EOL	BDI.	BOL	
9	Phosphorous	mg/kg		BDL	BDL	BDI.	BDL.	
10	Iron	mg/kg	EPA 3050B, 7000B	33.9	BDL	BDL	ISIDIL	
11	Sodium	mg/kg	VCSPL/SOP/SOIL/14	151	152	148	125	
12	Potassium	mg/kg	VCSPL/SOP/SOIL/15	14.4	14.5	12.9	f0.8	
13	Copper -	mg/kg	EPA 3050B, 7000B	BDL	BDI.	-BOL	BDL	
14	Nickel	mgkg	EPA 3050B, 7000B	BDL.	BDL	BDL	13131.	
15	Zinc	mg/kg	EPA 3050B, 7000B	BDI.	BDL	BOL	tšiži.	
16	Manganese	mg/kg	EPA 3050B	BDL	BOL	13151.	BDL	
17	Lead	mu/kg	EPA 3050B	BDI,	BDL	BDL	BDI.	
18	Вогол	mg/kg	EPA 305013	4.1	BDL	BDL	BDI.	
19	Aluminion	my/kg	EPA 30500	BDL	BDL	BDL,	BDL	
20	Total Chromium	mg/kg	EPA 3050B	BDL	BDL	BDI.	BDL	
21	Total Nitrogen	mg/kg	Method of analysis of Soil by HLS. Tandon	56.2	11.2	5.6	11.3	
22	Örganic Nitrogen	mg/kg	Method of analysis of Soil by HLS.Tandon	26.4	5.2	2.1	5.6	
23	Petroleum Hydrocarbon) h6/81	ASTM D 3921	ND	ND	ND	ŃD	
24	Pesticide	गड/गा	APHA 6630	ND	ND	ND	מא	
	Saind		Method of Soil Analysis,	70.8	79,5	8U-12	82.22	
25	Texture Silt	%	Black 1965, American Society of Agronomy,	0.98	1.09	1.93	1.87	
	Clay		USA USA	28.1	18.93	15.95	14.91	







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190 14001 - 2004 OHSAS 18001 - 2007

Ref: Envlab/19/R-4833

Date: 04.10.2019

SEA SEDIMENT ANALYSIS REPORT

Client Name & Address	M/s The Dhamra Port Company Limited	, Dosinga, Bhadrák, Odisha			
Work Order No.	4800044480, Date 18.07.2019				
Reference No.	Envlab/19/R-4833				
Type of Sample	Sea Sediment Sample	The state of the s			
Sampling Location	SS-5: Along channel at 8 km; SS-7: Dredging dumping site inside sea;	SS-6: Along channel at 12 km SS-8: Near Kanika island			
Date of Sampling	20.09.2019	The state of the s			
Date of Analysis	21.09.2019 to 30.09.2019	м (с. 1 м.) на профинску (с. 1016 родо). Семена додо се постоја се по			
Sampling Done by	Mr. Samyashree Nayak	a tida ya shirinda da isala ka /b>			

SIL. No.	Name of	the Parameters	Unit	Unit Testing Method		Analysis Result			
				s sixing intening	SS-5	SS-6	SS-7	SS-8	
1	рH		-	IS:2720(P-26):1987	6.55	7,23	6.95	5.83	
2		Conductivity	µs/cm	IS:14767:2000	910	305	756	75	
3	Organic M	alter -	%	VCSPL/SOP/SOIL/05	0.18	3.65	0.97	1.06	
4	Moisture (Content	%	IS 2720 (Part-2) 1973	0.16	4.04	4.25	5.94	
Š	Chloride		mg/kg	USDA:1954-Reaffirmed 2010	84	750	. 910	739.5	
6	Sulphate		mg/kg		20.5	19.5	21,4	19.5	
7	Sulphide		mg/kg	Method of analysis of	BDL	Bi)I.	ND	N()	
8	Phosphate	TTT TO STATE OF THE STATE OF TH	mg/kg	Soil by HLS.Tandon	BDL	BDL	BDL	BI)I.	
9	Phosphoro	45	mg/kg		COL	BDL	BIM.	BD1.	
10	Iron		mg/kg	EPA 3050B, 7000B	BDL.	34.5	34.1	32,5	
11	Sodium		m <u>e/ks</u>	VCSPL/SOP/SOIL/14	162	149	154	132	
12	Potassium		mg/kg	VCSPL/SOP/SOIL/15	15.1	13.9	13.0	11.4	
13	Copper *		mg/kg	EPA 3050B, 7000B	BDL	BDL.	BDL	BIA.	
14	Nickel		mg/kg	EPA 3050B, 7000B	BDL	BDL.	BDI.	BDL.	
15	Zinc		mg/kg	EPA 3050B, 7000B	BDI,	BDL	EDI,	Bi∋L	
16	Manganesi	ž į	mg/kg	EPA 3050B	BIN.	BOL	BOL	BDL.	
17	Lead		mg/kg	EPA 3050B	BDI.	BDL	BDL	BDL	
18	Boron	Nije (Stability Production Company of the Company o	mg/kg	EPA 3050B	BDL	3.9	4.6	3.5	
19	Aluminiun	T	mg/kg	EPA 3050B	BDL	BDL	BDI.	BIN.	
20	Total Chro	mium	mg/kg	EPA 3050B	BDī.	BDL	1313(BDL	
21	Total Nitro	ogen	mg/kg	Method of analysis of Soil by HLS.Tanden	11.16	67.5	67.1	72,8	
22	Organic N		mg/kg	Method of unalysis of Soil by HLS. Tandon	4.9	32.3	32,5	34.5	
23		Hydrocarbon	ពិសាក	ASTM D 3921	ND	NĎ	NĎ	ИĎ	
24	Pesticide		ப் த ர்பி	APHA 6630	ND	ND	ND	NΩ	
		Sand		Method of Soil Analysis.	78.85	72.1	72,5	2 0.9	
25	Texture	Silt	%	Black 1965, American Society of Agronomy,	1.35	1.01	1.90	1,92	
		Clay		USA USA	18.70	26.40	25.4	25.2	







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Ref: Envlab/19/R-4834

Date: 04.10.2019

PHYTOPLANKTON (MARINE SURFACE WATER) MONITORING REPORT

Client Name & Address	M/s The Dhamra Port Company Limited	L Dosinga, Bhadrak, Odisha			
Work Order No.	4800044480, Date 18.07.2019				
Reference No.	Enviab/19/R-4834				
Type of Sample	Marine Sample (Phytoplankton)				
Sampling Location	S-1: Dhamra river mouth; S-3: Liquid/gas cargo berth face; S-5: Along channel at 8 km; S-7: Dredging dumping site inside sea;	S-2: Dry bulk cargo berth face S-4: Along channel at 4km S-6: Along channel at 12 km S-8: Near Kanika island			
Date of Sampling	20.09.2019	7/4-5-48 (ACC) (AC			
Date of Analysis	21.09.2019 to 30.09.2019				
Sampling Done by	Mr. Samyashree Nayak	The state of the s			

Name of the Parameters	Total count	No of species	Chlorophyll-a	Major Species		
Unit	CFU/100ml	Nos.	mg/l	10 as		
Testing Method	APHA 9215 B, C	APHA 10200 F	ÄPHA 10200 H	APHA 10200 F		
		***************************************	Analysis Result	and the second s		
S-I	530	18	1.24	C.furca, Coclotella Sp.N.striata, G.delicanda, O.heteroceros		
S-1	2746	ίΰ	1.14	N.longisigma, C.pentagonum, P.elongatam, Ceratium sp., Podosica, N.striata		
S-3	4586	19	2. JŽ	N.Culla, C.Capense, B.Variavus, Bacilluria Sp. Chaetocerous Sp.		
S-4	786	14	1.18	Pleurosigma, Podostra, N.longišigma, Skelotonema, C.eccentricus		
8-5	1126	15	1.48	Actinoptyclus Sp., Cyclotella Sp., R Setigera L'abbreviata, E Zoodincus, Podastra		
5-6	912	Ē Į	2.16	Chaetacerous, C.pentagonium Ditylum Sp., Fragillariopsis Sp., K.longo, C.Capense		
S-7	1178	16	1.22	Chaetocerous., Podosira, C.pemagonum. N.striata, Ĉeratium. Chaetocerous, Bacillariu, Skeletonema		
S-8	1568	24	1.38	B. Varians, Cyclotella Sp. N. striata, N. longistymu, Podostra, C. furca		





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Ref: Envlab/19/R-4835

Date: 04.10.2019

ZOOPLANKTON (MARINE SURFACE WATER) MONITORING REPORT

Client Name & Address	M/s The Dhamra Port Gorgonana Line Sea					
Work Order No.	M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha 4800044480, Date 18.07.2019					
Reference No.	Envlab/19/R-4835					
Type of Sample	Marine Sample (Zooplankton)					
Sampling Location	S-1: Dhamra river mouth; S-3: Liquid/gas cargo berth face; S-5: Along channel at 8 km; S-7: Dredging dumping site inside sea;	S-2: Dry bulk cargo berth face S-4: Along channel at 4km S-6: Along channel at 12 km				
Date of Sampling	20.09.2019	S-8: Near Kanika island				
Date of Analysis	21.09.2019 to 30.09.2019					
Sampling Done by	Mr. Samyashree Navak	$q_{1,2,3,3,3,4,4}$ and $q_{1,2,3,4}$ and $q_{1,2,3,4}$ and $q_{2,3,4}$ and $q_{3,4,4}$ and				

Name of the Parameters	Total count	No of species	Major Species
Unit	CFU/100m1	Nos.	
Testing Method	APHA 9215 B, C	APHA 10200 G	APHA 10200 F
	A STATE OF THE PROPERTY OF THE	An	alysis Result
S-1	1241	15	Nematoda, Rotifera, Cladosera, Protozoa
S-2	1449	Ĭ0	Insecta, Crustacean Larvae, Lucifera, Fish egg, Protocoa
S-3	1659	6	Copepad, Protozóa, Cládocera, Nematoda
S-4	1192	12	Crustacean Larvae, Lucifera, Bacteriological Larvae, Insecta
S-5 .	1716	16	Ostracoda, Anostrava, Rotifera, Chadocera
S-6	1187	T\$	Nematoda, Protózpa, Cladocera, Crustacean Larvae
S-7	1206	10	Lucifera, Fish Larvae, Insecta, Copepado
S-8	1230	9	Protozoa, Ostrocoda, Anostraca, Nematoda





Ref: Envlah/I-/R-4836

Visiontek Consultancy Services Pvt. Ltd. **22**

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MICROBIOLOGICAL (MARINE SURFACE WATER) MONITORING REPORT

Client Name & Address	M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha				
Work Order No.	4800044480; Date 18.07.2019				
Reference No.	Envlab/19/R-4836				
Type of Sample	Marine Sample				
Sampling Location	S-1: Dhamra river mouth; S-3: Liquid/gas cargo berth face; S-5: Atong channel at 8 km; S-7: Dredging dumping site inside sea;	S-2: Dry bulk cargo berth face S-4: Along channel at 4km S-6: Along channel at 12km S-8: Near Kanika island			
Date of Sampling	20.09,2019				
Date of Analysis	21.09.2019 to 30.09.2019				
Sampling Done by	Mr. Samyashree Nayak				

SL.	Name of the	Unit	Testing Analysis Result									
No.	o. Parameters Unit		Methed	S-1 S-2 S-3 S-4 S-5				8-6	S-7	S-8		
1	Total Bacteria	CFU/ml	АРНА 9215 В. С	110.0	220,0	4(0,0	120.0	140.0	210.0	80.0	160,0	
2	Total Coliform	MPN/100 mt	APHA 9221 B	33.0	58.0	84.0	23,0	17.0	79.0	11.0	14,0	
3	Faccal coliform	MPN/100 ml	APHA 9221 E	<1.8	<1.8	3.6	<1.8	. 2.0	2.0	<1.8	3.7	
4	E. coli	MPN/100 ml	ÀP#IA 9221 F	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	
5	Enteroeoccus	CFWml	APHA 9230 B	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	
6	Salmonella	CFU/ml	APHA 9260 B	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	
Ż	Shigella	CFU/ml	APHA 9280 E	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	
8	Vibrie CONS	CFU/ml	APHA 9260 H	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	

Date: 04.10.2019

019



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ISO 14001 : 2004 OHS/AS 18001 - 2007

Ref: Envlab/19/R-4837

Date: 04.10.2019

PRIMARY PRODUCTIVITY (MARINE SURFACE WATER) MONITORING REPORT

Client Name & Address	M/s The Dhamra Port Company Limited, Dosinga, Bhadrak, Odisha
Work Order No.	4800044480, Date 18.07.2019
Reference No.	Envlab/19/R-4837
Type of Sample	Marine Sample (Productivity)
Date of Sampling	20.09.2019
Date of Analysis	21,09,2019 to 30,09,2019
Sampling Done by	Mr. Samyashree Nayak

ŠI. No.	Monitoring Location	Gross Primary productivity(mgC/L/day)	Net Primary productivity(mgC/L/day)
ì	S-1: Dhanna river mouth	2.8	1.6
ž	S-2: Dry bulk cargo berth face	1.6	1.1
3	S-3: Liquid/gas cargo berth face	2.5	19
4	S-4: Along channel at 4km	2.1	1.2
5	S-5: Along channel at 8 km	1,9	1.0
<u> </u>	S-6: Along channel at 12 km	2.0	1.4
7	S-7: Dredging dumping site inside sea	2.4	1.6
8	S-8: Near Kanika Island	2.3	1.8





2017. | (8181-84/5/10) 1017. | (9181-94/5/10) 2004 : 1695 OSI

Client Name & Address	M/s The Dhamra Port Company Limite	The state of the s
Work Order No.	4800044480; Date 18.07,2019	o, Dosinga, Bliadrak, Odisha
Reference No.	Enviab/19/R-4838	
Type of Sample	Marine Sample	
Sampling Location	S-1: Dhamra river mouth; S-3: Liquid/gas cargo berth face; S-5: Along channel at 8 km; S-7: Dredging dumping site inside sea;	S-2: Dry bulk cargo berth face S-4: Along channel at 4km S-6: Along channel at 12 km
Date of Sampling	20.09.2019	S-8: Near Kanika island
Date of Analysis .	21:09:2019 to 30:09:2019	The company of the co
Sampling Done by	Mr. Samyashree Navak	

SL. No.	Name of the Parameters	Unit	Testing Method			The state of the s	Analysis	Resuit	A halo a figure for the second control of the figure and the second of t	and the second description of the second des	Action (Section 1997)
7	Fungus	CODING CO.	I	<u></u>	S-2	S-3	T S-4	S-5	5-6	1 ~-	-
and injure		CFU/g dry wt.	APHA 9610 B	3189.0	2248.0	3048.0	2212.0	2946.0	the state of the s	<u> 57</u>	5-8
2	Total Count	50 ing ivet sediment	APHA 9213 B, C	810,0	188.0	210.0	112.0	-	1849.0	1488,0	2612.0
3	No of species	Nos.	APHA 10500 B	12.0			1 1201	196.0	232.0	510.0	318.0
	Diversity		By Calculation	1.2.0	8.0	13.0	6.0	10.0	12,0	11.0	12.0
4	Index	4 v)	(Slamnon's Index)	0.54	0.42	0.52	0.56	0.48	0,78	0.37	0.51
5	Major species	EST Controller to the secretary of the second	APHA (0500 B	Chactocarius Sp. Digolam Sp. Podostra	Digition Sp. X langsigna	Podosini O heteročarus	Poctosina M.Tongstypisa	Duylam P. clonganan D. brighhodh	C) viatelia Sp. Fragiliariopsis Sp.	R. setigera Podosira Disdum	Dityluni Sj N. torigolyn





Client Name & Address	M/s The Dhamra Port Company Limited	The state of the s
Work Order No.	4800044480, Date 18.07.2019	I, Dosinga, Rhadrak, Odisha
Reference No.	Envlab/19/R-4839	prompt supplies on a planta and a third prompt supplies for the prompt supplie
Type of Sample	Mariae Sample	garden and the registry (Marcoland Antonion (Marcoland Antonion) and the state of
Sampling Location	S-1: Dhamra river mouth; S-3: Liquid/gas cargo borth face; S-5: Along channel at 8 km;	S-2: Dry bulk cargo berth face S-4: Along channel at 4km S-6: Along channel at 12 km
Date of Sampling	S-7: Dredging dumping site inside sex; 20.09/2019	S-8: Near Kanika island
Date of Analysis	21.09.2019 to 30.09.2019	
empling Done by	Mr. Samyashree Nayak	And the second of the second o

SL. No.	Name of the Parameters	Name of the Testing Analysis Result Analysis Result								
-	And the Control of th	**************************************	5-1	S-2	S-3	S-4	J S-5	S-6	T	T
ľ	Name of phylum		Annelida & Athropoda	Amerida	Athropoda & Mollusca	Annelida & Mollasca	Athropoda & Molhisca	Annelida &: Molfusca	S-7 Allmopoda & Annelida	
2	Class & No. of individuals areountered	APHA 10700	Bivalvia-11 Gastropod-12 Amphipoda-4	Polychaeta-18 Scaphopoda-11	Amphipoda-30 Bivalvia-11	Polychaeta-26 Bivalysa-8	Malagostraca-20 Gastropoda-13	Polychaeta-18 Bixalvin-04	1	Athropoda Polychaeta 18
3	Total no of species erisountered	OLEIG 19189	27	29	41	34	.33	Gastropoda-12 34	29	Copepoda -8
4	Total fames per m		330	348	492	408	396	408	348	312





Date: 04.10.2019

ANNEXURE - II TYPES AND QUANTITY OF FIRE EXTINGUISHERS

	The Dha	amra Port Company Limited
	Fir	e Extinguisher Details
SI 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)-1no (CO2 -3KG)-1no
5	MCC -3	(CO2-4.5KG)-2nos (CO2 -3KG)-1no (FOAM-50ltrs)-01no
6	MCC -4	(CO2-4.5KG)-02nos. (DCP- 5KG)-1no
7	TP - 1(A)	CO2-4.5KG-1no
8	TP - 1(B)	CO2-4.5KG-1no
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-1no
19	TP-8	CO2 -4.5KG-1no
20	TP-9	CO2 -4.5KG-1no (DCP- 5KG)-1no.
21	TP-10	CO2 -4.5KG-2nos
22	TP-11	CO2 -4.5KG-1no
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)-1nos (DCP- 5KG)-2nos
28	SUL-2	CO2 -4.5KG-5nos (CO2 -3KG)-1nos (DCP- 5KG)-2nos
29	SUL-3	CO2 -4.5KG-6nos (DCP-2KG)-2nos (DCP-5KG)-1no
30	SUL-4	CO2 -4.5KG-6nos (DCP- 5KG)-3nos
31	SUL-5	CO2 -4.5KG-6nos (DCP- 5KG)-3nos
32	LIEBHERR-11	CO2 -4.5KG-2no, DCP-5KG-2nos, DCP-2KG-2nos
33	LIEBHERR-12	CO2 -4.5KG-2no, DCP-5KG-4nos
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 CO2-4.5kg-01 No. DCP-5KG-2Nos
38	WTC -2	CO2 -4.5KG-2nos DCP-5KG-2nos CO2 -3KG-1no
39	SR -1	CO2 -4.5KG-2nos DCP-5KG-1no
40	R - 1	CO2 -4.5KG-2nos DCP-5KG-1no
41	SR -2	CO2 -4.5KG-2nos DCP-5KG-1no
42	SR -3	CO2 -4.5KG-2nos DCP-5KG-1no
43	SR -4	CO2 -4.5KG-1no CO2 -3KG-1no, DCP-5KG-1no
44	SR-5	CO2 -4.5KG-2nos DCP-5KG-1no
45	SR-6	CO2 -4.5KG-2nos DCP-5KG-1no

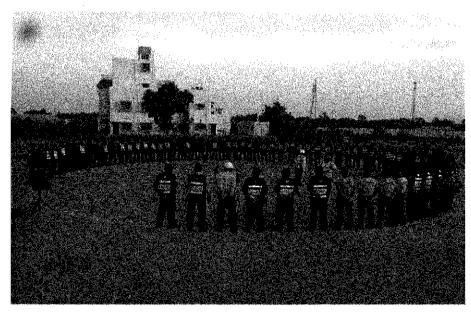
46	Fire & Security Barrack	CO2-4.5KG-3nos, DCP-5KG-2no
47	JETTY CONTAINER	CO2-4.5KG-1no, DCP-5KG-1no
48	MHS OFFICE ,	CO2-4.5KG-2 Nos.
49	PSS	CO2 -4.5KG-3nos, DCP-5kg-01No.
50	BMH WORK SHOP	CO2 -4.5KG-1no DCP-5KG-2nos FOAM-50ltrs-01no
51	All Equipment	DCP-5KG-06nos
52	LOCO SHED	CO2 -4.5KG-02 Nos, DCP-5KG-2Nos.
53	DIESEL FILLING STATION	Foam-9ltr-1no
54	IOCL	Foam-9ltr-1no
55	WTP	CO2 -4.5KG-3nos
56	DPCL OFFICE(SALANDI)	CO2-4.5KG-1nos DCP-5KG-2nos,
57	REWA OFFICE	CO2-4.5KG-3Nos DCP-5KG-1No
58	CUSTOMS OFFICE	CO2-4.5KG-1No DCP-5KG-1No
59	DPCL STORE	CO2 -4.5KG-1no DCP-5KG-1No
60	Lubricant Store	Foam-9ltr-1no, DCP-5KG-1No.
61	SS-01	CO2 -4.5KG-1no
62	SS-02	CO2 -4.5KG-1no
63	SS-03	CO2 -4.5KG-1no
64	SS-04	CO2 -4.5KG-1no
65	SS-05	CO2 -4.5KG-3nos
66	NEW CANTEEN (Adani port canteen)	CO2 -4.5KG-01no DCP-5KG-1no
67	DHAMRA HOUSE	DCP-5KG-6nos CO2 4.5KG-01no
68	KANIKA GUEST HOUSE	CO2 -4.5KG-01no DCP-5KG-1no
69	DAV SCHOOL, KUAMARA	CO2 -4.5KG-16nos DCP-5KG-14nos
70	TOWNSHIP	CO2 -4.5KG-11nos
70 71	COMMUNITY HALL	CO2 -4.5KG-1nos DCP-5KG-2nos
7 <u>-</u> 72	PREFAB	CO2 -4.5KG-4nos DCP-5KG-5nos
<u>, 2</u> 73	PMC OFFICE(HR)	CO2 -4.5KG-1no
	DHAMRA GUEST HOUSE	
74	(Kalibhanja Guest House)	CO2 -4.5KG-4Nos.
75	RAILWAY OFFICE	CO2 -4.5KG-02noS DCP-5KG-3nos
76	BHATATIRA STATION	CO2(4.5kg)-2Nos DCP-5KG-1no
77	BHATATIRA LC-5	DCP-5KG-1no
78	BHATATIRA- SP	CO24.5kg-1No
79	GURUDASPUR STATION	CO2-4.5KG-1No DCP-5KG-1No
80	GURUDAS PUR TSS	CO2 -4.5KG-1no DCP-5KG-4Nos.
81	GURUDAS PUR SUB STATION	DCP-5KG-2Nos
82	INTAKE	CO2 -4.5KG-3nos DCP-5KG-1no
83	RANITAL	CO2 -4.5KG-1no
84	GURUDAS PUR LC-19	DCP-5KG-1no
85	IMWB	CO2-4.5KG-1 No.
86	LOCO TRANSFORMER	CO2-4.5KG-2nos, DCP-5KG-2nos
87	HEALTH CENTRE	CO2-4.5KG-1no, DCP-5KG-1 No.
88		
89	TOWER WAGON	DCP-5KG-3nos
90	TIHIDI STATION	CO2 -4.5KG-1no DCP-5KG-1no
01	BANSADA STATION	CO2 -4.5KG-3nos
91	DANSADA STATION	

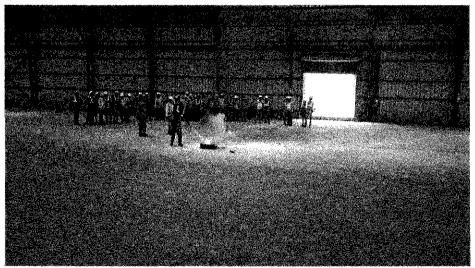
94	BRAMHANI OFFICE	CO2 -4.5KG-1no DCP-5KG-1no
95	KANIKA TRANSFORMER	CO2 -4.5KG-1no, DCP5KG-1NO.
96	SECURITY CONTAINER, NEAR MAIN GATE	CO2 -4.5KG-1no DCP-5KG-1no
97	FIRST AID CENTER	CO2 -4.5KG-1no DCP-5KG-1no
98	DPCL AMBULANCE(OLD)	DCP-5KG-1no.
99	DPCL AMBULANCE(NEW)	DCP-5KG-1no.
100	RAILWAY GSS	CO2 -4.5KG-1no DCP-5KG-1no
101	RUNNING ROOM	CO2 -4.5KG-1no DCP-5KG-1no
102	SAFETY INDUCTION HALL	CO2 -4.5KG-1no
103	FCC GODOWN	CO2 -4.5KG-19nos DCP-5KG-03nos Foam-9ltr-3nos, Foam 50 ltr1 No.
104	FCC OFFICE	CO2 -4.5KG-1no DCP-5KG-1no
105	FCC CANTEEN	DCP-5KG-1no
106	WOISTAGE OIL STORE	Foam-9ltr-1no,CO2 4.5KG-01NO
107	LABOUR REST HOUSE	CO2 -4.5KG-1no
108	SS-6	CO2 -4.5KG-16nos DCP-5KG-8nos
109	COLONY PUMP HOUSE	CO2 -4.5KG-1no
110	BHADRAK GUEST HOUSE	CO2 -4.5KG-1no DCP-5KG-1no
111	BBSR OFFICE	CO2 -4.5KG-2nos DCP-5KG-3nos
. 112	ADANI RAILWAY ENGINE	CO2 4.5KG-1, DCP-5KG-01 NO.
113	SILO-3	DCP-5KG-01 NO
114	SILO-4	CO2 4.5KG-01 NO
115	MCC-1A	CO2 4.5KG-03 NOS.DCP5KG-01 NO.
116	NEW TOWNSHIP	CO2 4.5KG-04NOS. DCP 5KG-04 NOS.
117	WASTE SHED	DCP5KG-1 NO, FOAM9LTR-1 NO.
118	FCC TRANSFERMER	DCP5KG-01 NO,CO2 4.5KG-01 NO
119	FCC LABOUR COLONY	CO2-4.5KG-01 NO, DCP5KG-02NOS.
Total Fire	e Extinguisher Installed at site	Co2-4.5kg=246nos, CO2-3kg =08nos, DCP-5kg=149nos, DCP-2kg=04nos & Foam-9ltrs=08nos, Foam -50ltrs -04nos
	BALANCE FIRE TENDER WITH RE STORE & DPCL STORE	CO2 (4.5kg)= 72nos, DCP(ABC)-6kg-97nos, DCP 25kg-06 Nos. Foam(9ltrs)-15Nos & Foam(50ltrs)-09nos

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	05	150
2	Safety Induction Training	156	3395
3	Portable fire Extinguishers training	33	1421
4	Contractor safety training	93	1352
5	Defensive driving training	3	44
6	Tool box training	26057	216822
7	On the Job Safety Awareness	614	9809

FIRE EXTINGUISHER TRAINING



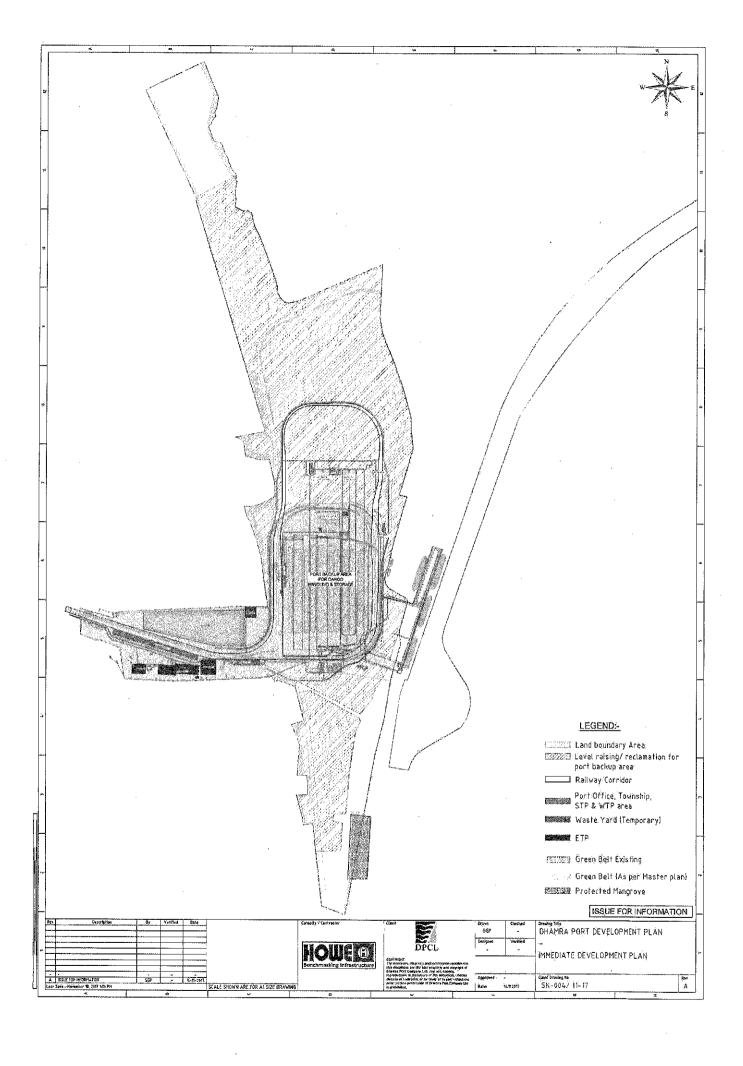


EMERGENCY RESCUE MOCK DRILL AT SITE

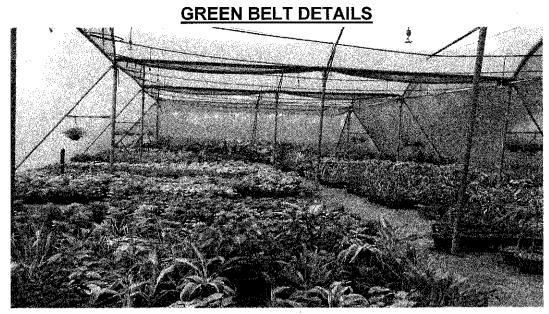




ANNEXURE - IV PORT LAYOUT



<u>ANNEXURE – V</u> <u>GREEN BELT DETAILS</u>



1. Nursery with 1 lakh Sapling stock



2. Railway Corridor Edge Plantation



3. Green belt around the port



4. Green belt around the port



5. Green belt around the port



6. Green belt development near adjacent village

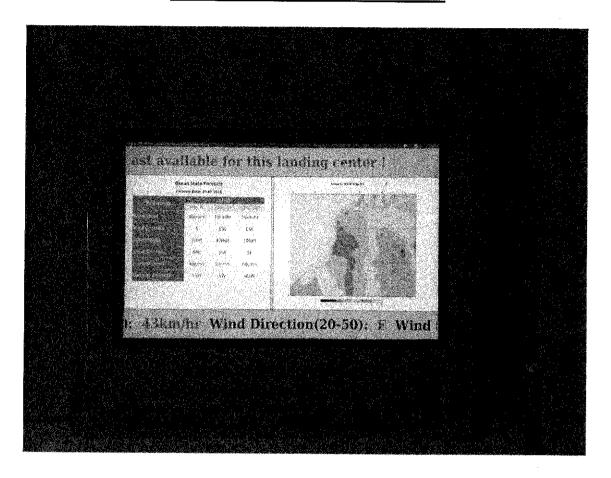
ANNEXURE – VI ENVIRONMENT EXPENSES

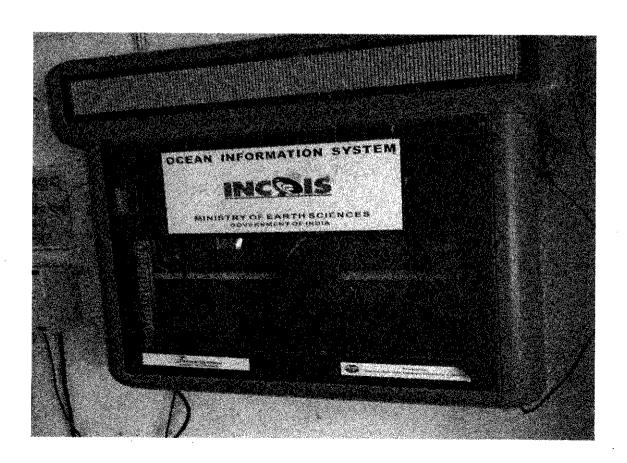
ENVIRONMENT EXPENSES

ENVIRONMEN PROTECTION EXPENDITURES FY 2019-20		
S. No.	Activity/ Category	Expenditure in lacs
1	Environmental Study / Audit	7.53
2	Environmental Monitoring Services	9.80
3	Hazardous & Non- Hazardous Waste Management & Disposal	42.66
4	Environment Day Celebration	2.75
4	Mangrove conservation	2.64
5	Treatment & Disposal of Biomedical Waste	1.84
6	Horticulture/Plantation	22.0
7	O&M of Sewage Treatment Plant	6.24
8	Water Treatment Plant	35.04
9	Turtle conservation (Trawler for patrolling)	7.20
10	Port Housekeeping Operation	48.31
11	Port housekeeping Environment	40.58
Total Environmental Expenditures (in Lakhs)		226.59

ANNEXURE – VII PICTURE OF INCOIS ELECTRONIC DISPLAY BOARD

PICTURE OF INCOIS ELECTRONIC DISPLAY BOARD INSTALLED AT DHAMRA FISHING HARBOUR





ANNEXURE- VIII KANIKA CONSERVATION PLAN APPROVED LETTER

OFFICE OF THE DIVISIONAL FOREST OFFICER, BHADRAK WILDLIFE DIVISION, AT/P.O/P.S.-CHANDBALI, DISTRICT-BHADARAK, PIN-756133 Phone/Fax- 06786-220472, Mob-+91 9437041541, Email-dfobhadrakwl.od@gov.in

Letter No. 1889/3F-192/2018, Dated 28/05/2018

To,

The Chief Executive Officer, Dhamara Port Company Limited,

At-Dosinga, P.O-Dhamara, Dist-Bhadrak.

Sub:

Phase-II Expansion of Dhamara Port- Compliance to OCZMA recommendation and Expert Appraisal Committee (EAC) observation- Kanika Sand Conservation Plan-reg.

Ref

This office letter no. 1734 dated.15.05.2018.

Sir,

In inviting a reference to this office letter number cited above and No. EE-16/2018-10054/F&E dated 01.05.2018 of the Forest and Environment Department, as requested vide your letter no. DPCL/Env/DFO/2018-102 dated 28.05.2018, enclosed please find herewith a copy of the amended conservation plan for Kanika Sand Island prepared at this end after incorporation of necessary changes in the plan as suggested by the PCCF (WL) & Chief Wildlife Warden, Odisha during presentation of the plan at his office on

Further, in partial modification to this office letter no cited above, it is to intimate you that the cost of 1st year operation comes to Rs.141.70 lakhs which is mentioned in Chapter-V of the said conservation plan.

Accordingly, you are requested to be in readiness for release of funds for the first year to the undersigned for implementation of the conservation plan at this end.

Yours faithfully

Bhadrak Wildlife Division.

Memo No.

Dt.

Copy forwarded to the Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Odisha, Bhubaneswar in continuation to this office memo no.1867 dt.25.05.2018 for necessary instruction on modalities for implementation of the conservation plan as requested by the undersigned.

> Divisional Forest Officer, Bhadrak Wildlife Division.

Memo No.

Dt.

Copy forwarded to the Additional Principal Chief Conservator of Forests (Forest Diversion & Nodal Officer, F.C Act) O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for favour of kind information and necessary in continuation to this office memo no.1868 dt.25.05.2018.

> Divisional Forest Officer, Bhadrak Wildlife Division.

Dt. Copy alongwith a copy of the revised conservation plan as amended during the presentation at the O/o the Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Odisha, Bhubaneswar held on 08.02.2018 forwarded to the Regional Chief Conservator of Forests, Bhubaneswar Circle for favour of kind information and necessary action in continuation to this office memo no.1869 dt.25.05.2018.

> Divisional Forest Officer, Bhadrak Wildlife Division.

ଖଣ୍ଡୀୟ ବନାଧିକାରୀ, ଉଦ୍ରକ ବନ୍ୟପ୍ରାଣୀ ବନଖଣ୍ଡ, ଚାନ୍ଦବାଲିଙ୍କ କାର୍ଯ୍ୟ ।କୟ

OFFICE OF THE DIVISIONAL FOREST OFFICER, BHADRAK WILDLIFE DIVISION, AT/P:O/P:S.-CHANDBALI, DISTRICT-BHADARAK, PIN-756133

Phone/Fax- 06786-228472, Mob- +91 9437041541, Email-dfobhadrakwl.od@gov.in

Letter No. 3148 -1F-256/2018, Dated, Chandbali the 31 August, 2018

To

The Chief Executive Officer,
Dhamara Port Company Limited,

At - Dosinga, Post - Dhamara, Dist - Bhadrak.

Sub:

Implementation of Conservation Plan of Kanika Island, -regarding Placement of Funds.

Ref:

1. Memo No.17845 dated 14.08.2018 of Senior Scientist, Forest & Environment Deptt., Govt. of Odisha to your address.

2. Your Office LetterNo.113 dated, 09.07.2018.

Sir.

With reference to above cited memo on the captioned subject, it is to intimate you that an exclusive Savings bank Account with following details has been opened by the undersigned as per instructions issued by Forest & Environment Dept., Govt. of Odisha vide their letter under reference for implementation of Conservation Plan of Kanika Sand Island.

An early action is requested.

Account Details:

Account Name:

DFO BHADRAK WILDLIFE DIVISION

Bank Name:

State Bank of India

Branch Name:

Chandbali

Account No:

37903083739

IFSC:

SBIN0002039

Mobile No:

9437041541

You are requested to places funds as per annual breakup of cost in the approved project proposal.

Yours faithfully,

Mh _

Divisional Polest Micer. Bhadrak (WL) Division.

Memo No.

2149

Date- 31 08 2018

Copy forwarded to the Senior Scientist, Forest & Environment Deptt.,

Govt. of Odisha for favour of kind information.

Divisional

Bhadrak (WL) Division.

Memo No. 315

Date- 31/08/2018

Copy forwarded to the Principal CCF (WL) & CWLW, Odisha for

favour of kind information.

Bhadrak (WL) Division.

ANNEXURE- IX DFO LETTER



Doeser La Description Les Las Son

DPCL/ENV/DFO/2018-140

Date: 01.10.2018

To

The Divisional Forest Officer, Bhadrak Wildlife Division, At./Po. Chandbali, Bhadrak, Odisha - 756133

Sub: Release of fund for Conservation of Kanika Sand Island

Ref: Your office letter no. 1889 dated 28.05.2018

DPCL letter no. DPCL/ENV/DFO/2018-113 dated 09.07.2018

Dear Sir,

This is in reference to the above cited subject and reference. It is to inform you that an amount of ₹ 40 Lakhs as part of first year fund contribution for conservation of Kanika Sand Island was transferred to DFO Bhadrak Wildlife Division, SBI Bank, Chandbali (A/c. 37903083739) on 24.09.2018. You are requested to kindly acknowledge the receipt of fund.

Thanking You, Yours Sincerely

Krishna Kumar

Head - Environment







ଖଣ୍ଡୀୟ ବନାଧିକାରୀ, ଉଦ୍ରକ ବନ୍ୟପ୍ରାଣୀ ବନଖଣ୍ଡ, ଚାନ୍ଦବାଲିଙ୍କ କାର୍ଯ୍ୟ । କ୍ଷୟ

OFFICE OF THE DIVISIONAL FOREST OFFICER, BHADRAK WILDLIFE DIVISION, AT/P.O/P.S.-CHANDBALI, DISTRICT-BHADARAK, PIN-756133 Phone/Fax-06786-220472, Mob-+91 9437041541, Email-dfobhadrakwl.od@gov.in

Letter No. 4181 -1F-256/2018, Dated, Chandball the 20, November, 2018

To

The Chief Executive Officer, Dhamara Port Company Limited

At - Dosinga, Post - Dhamara, Dist - Bhadrak.

Sub:

Release of funds for Conservation Plan of Kanika Island. -regarding acknowledgement of receipt of funds.

Ref:

Your Office Letter No. 140 dt. 01.10.2018.

Sir,

In inviting a reference to the above captioned subject, it is to inform you that an amount of ₹. 40,00,000/- (Rupees Forty Lakh) only has been received in the State Bank of India, Chandbali Branch, A/c No. 37903083739 on 25.09.2018.

This is for favour of information & necessary action.

Divisional For Bhadrak (WL) Wivision,

Memo No.

Date- 20-11-2018

Copy forwarded to the Senior Scientist, Forest & Environment Deptt., Govt. of

Odisha for favour of kind information.

Divisional Forest (Bhadrak (WL) Division.

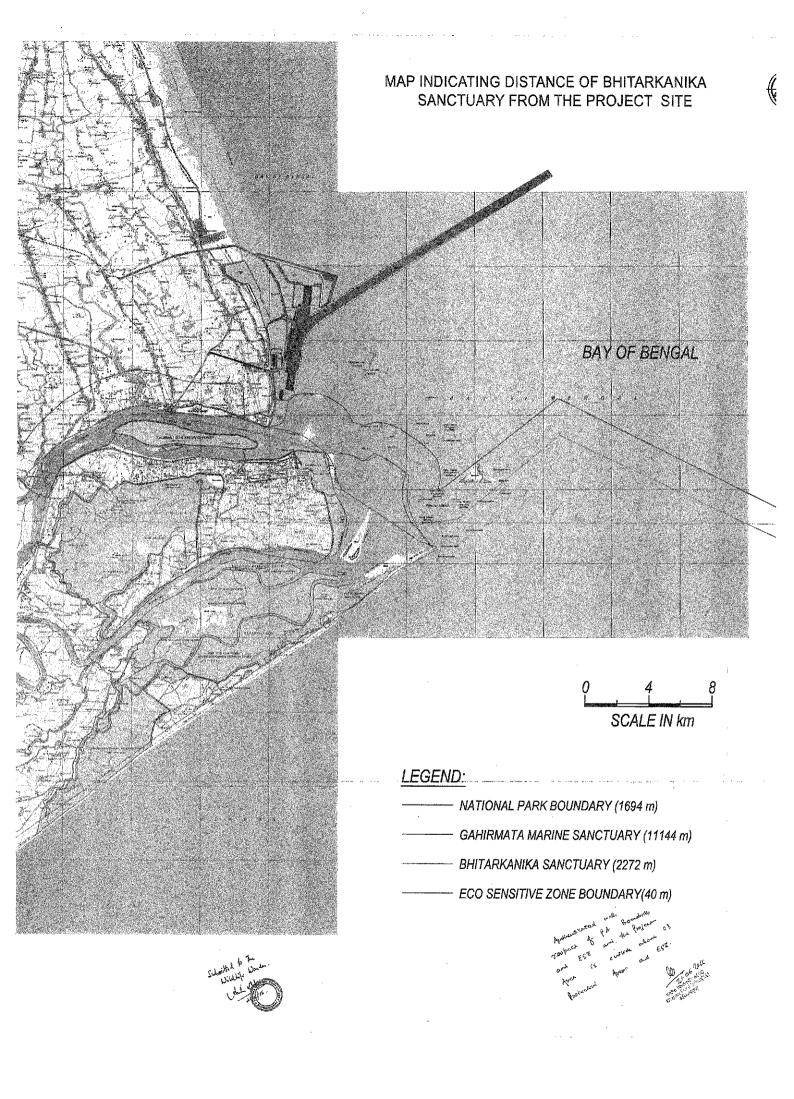
Memo No. 4183

Date- 20-11-2018

Copy forwarded to the Principal CCF (WL) & CWLW, Odisha for favour of kind information.

Bhadrak (WL) Division.

ANNEXURE- X APPROVED MAP FROM FOREST DEPARTMENT GOVERNMENT OF ODISHA



ANNEXURE- XI PERMISSION LETTER FROM DFO TO CARRY OUT THE PLANTATION IN FOREST VILLAGE

OFFICE OF THE

DIVISIONAL FOREST OFFICER, BHADRAK WILDLIFE DIVISION, AT/P.O/P.S.-CHANDBALI, DISTRICT-BHADARAK, PIN-756133 Phone/Fax- 06786-220472, Mob- +91 9437041541, Email-dfobhadrakwl.od@gov.in

Letter No. 2678/3F-161/2013, Dated 24 /07/2018

To,

The Chief Executive Officer, Dhamara Port Company Limited,

At-Dosinga, P.O-Dhamara, Dist-Bhadrak.

Sub:

Expression of interest by DPCL for plantation of trees in village forest land adjacent to the port boundary as per stipulation of Environment and CRZ clearance for expansion of Dhamara Port.

Ref:

Your Office letter No. DPCL/ENV/DFO/2018-112 Dated 09.07.2018 and Letter No. 1600/Rev dated 26.06.2018 of Addl. District Magistrate, Bhadrak in your office address &this Office memo no.325 dt.18.01.2018.

Sir.

In inviting a reference to aforesaid subject and memo under reference, you may go ahead with plantation of trees in village forest land adjacent to the port boundary as per scheme submitted by you in consultation and supervision of the Range Officer, Chandbali Wildlife Range adhering to the stipulation of Environment and CRZ clearance issued by MoEF vide letter F.No.11-104/2009-IA-III dated01.01.2014.

Yours faithfully,

Divisional Forest Offiger, Bhadrak Wildlife Division.

Memo No. 2679 Dated. 24.07-2018

Copy forwarded to the Addl. District Magistrate, Bhadrak for information and necessary action with reference to his office memo no.1601/Rev dtd.26.06.2018

Divisional Forest Officer, Bhadrak Wildlife Division.

Memo No. 2690 Dated. 24.07.2018.

Copy forwarded to the Range Officer, Chandbali (WL) Range for information and necessary action. He is instructed to inspect the plantation project of DPCL and submit report on achievement of plantation work fortnightly.

Divisional Forest Officer, Bhadrak Wildlife Division.

ANNEXURE - XII: EMP AND ACTION PLAN

ANNEXURE - XII: 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	Scattered mangroves identified near southern boundary of the port in phase I development needs to be conserved. The port boundary will be at a minimum distance of 50 m from the mangrove area on the northern side. Awareness will be created amongst port workers about the importance of mangroves and their conservation	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. A buffer of 50m is being maintained between the project boundary and mangrove vegetation.
					Awareness programs for mangrove conservation for port workers are being undertaken
		Impact on turtle nesting	Glare of Port Light may cause disturbance to hatchlings	Install specialized illumination system in line with "International Dark Sky Association (IDA)" to avoid illuminating the sky or focusing light towards sea. Mercury vapour and metal halides will not be used Sodium vapour lamps will be used	DPCL has already implemented the suggested mitigation measures during Phase I and

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	Providing adequately sized construction yard for storage of construction materials, equipment tools, earthmoving equipment, etc Provide enclosures on all sides of construction site. Movement of material will be mostly during non-peak hours. On-site vehicle speeds will be controlled to reduce excessive dust suspension in air and dispersion by traffic. Construction equipment and transport vehicles will be periodically washed to remove accumulated dirt Water sprinkling will be carried out to suppress fugitive dust	We have a regular air monitoring protocol twice a week to ensure air quality parameters never exceed the prescribed limits. Vehicular Traffic Speed is kept limited to 20 kmph Regular water sprinkling on roads are being carried out by water tankers. Mechanized & manual sweeping is being carried out on regular basis for cleaning of the road. Environment Awareness/training programme is being conducted on regular basis by Environment Department to personnel involved in developmental works.

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
		Naina	Noise from	Environmental awareness training will be imparted to personnel involved in developmental works. Procurement of machinery /	We have a strict maintenance
		Noise	following activities Vehicles transporting construction material Diesel run engines of construction machinery and dredgers Pile driving activities during construction of cargo berths	construction equipment will be done in accordance with specifications conforming to source noise levels less than 85 dB (A) Well-maintained construction equipment, which meets the regulatory standards for source noise levels, will be used Noise attenuation will be practiced for noisy equipment by employing suitable techniques such as acoustic controls, insulation and vibration dampers Personnel exposed to noise levels beyond threshold limits will be provided with protective gear like earplugs, muffs, etc.	regimen for all plant machinery and equipment which is reviewed by the management every day. PPE's like Earplug, muffs are being used in noise prone areas. Noise level monitoring is being carried out by a MoEF & CC accredited agency on monthly basis.
				Ambient noise levels will be monitored	
		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	Measures	Mitigation Measures	Compliance
		waste on ground	lying areas. Composted bio-degradable waste will be used as manure in greenbelt. Other recyclable wastes will be sold. General refuse generated on-site will be collected in waste skips and separated from construction waste. Burning of refuse at construction sites will be prohibited.	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. Construction waste generated was used in low lying areas as a standard practice Bio- degradable waste is being used as manure for horticulture activities and for development of nursery Waste Segregation is being done at Point of Generation and Color Coded bins are in use in the Port Residential Area Burning of wastes is prohibited within the premises
Handling of hazardous wastes	Human safety and property loss	Accidents during construction	Adequate safety measures as per OSHA standards will be adopted. Construction site will be secured by	DPCL has Amended the Hazardous waste authorization from OSPCB vide letter no. IND-IV-HW-894/9967 on dated

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
				fencing with controlled/limited entry points. Hazardous materials such as lubricants, paints, compressed gases, and varnishes etc., will be stored as per the prescribed/approved (MSIHC) safety norms. Medical facilities including first-aid will be available for attending to injured workers.	24.08.2018 for handling of hazardous waste used oil, waste oil, oil contaminated filters elements valid till 31.03.2020. 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.
					We have a strict safety regimen with the motto "Safety First" Safety Observations are mandatory from every department of the port and immediate measures are undertaken to rectify the shortcoming. OHSAS Guidelines and MSIHC Guidelines are followed for Hazardous wastes
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
			Operat	ional Phase	
1.	Cargo handlingand Inland Cargo movement and storage areas	Air Quality	Emissionsfrom loading/unloading equipment, DG sets, vehicular dust emissions, fugitive emissions from storage areas, spillage of cargo	Use of specialized ship loaders/unloaders, wagon tippler, covered conveyors and rapid loading system through silos Dust suppression measures at loading/unloading points, wagon tippler complex, transfer points, stockyards, rapid loading system and at internal roads Periodic cleaning of cargo spills and speed regulations for vehicles engaged in transportation	Noted and complied.
		Noise	Due to equipment handling and vehicular movement Ship (un)loading operations	Acoustic Barriers and Enclosures Personal Protection Equipment (PPE) Counseling and traffic regulation	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.	Ships should comply with the MARPOL convention. As a mitigation measure for accidental spillages, Oil spill contingency plan will be implemented. Carrier will be required to exchange ballast water in a deep sea location prior to arrival in the harbor Provision of waste reception facility for bilge oily water and waste oil will be provided	MARPOL and Ballast Water Convention guidelines are enforced by DPCL for visiting ships.
3.	Accidental Cargo and Oil spills	Marine water quality and ecology	Change in marine water quality	In case of any cargo spillage during transfer from/to ships, it will be attempted to recover the spills. Oil spill control equipment such as booms / barriers will be provided for containment and skimmers will be provided for recovery Response time for shutting down the fueling, containment and recovery will be quicker.	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. Oil Spill Containment equipment in readiness.

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	It will be ensured that the dumping of the maintenance dredge spoil would be uniform. Turtle deflectors on dredge head will be provided 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.	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
6.	.Wastewater	Water Quality	Impact due to	Phase I. Distribution system shall be extended to cater to the requirement of expansion project. Collection of runoff from stock piles	Complied.
	Discharge	·	discharge of runoff from stock piles and disposal of untreated sewage	in settling ponds. Sewage treatment plant will be provided. Treated wastewater from STP will be used for irrigating the greenbelt	
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	Hazardous materials will be stored as per the prescribed/approved (MSIHC) safety norms. Operation areas will be secured by	DPCL had made an agreement with OSPCB approved vendor fo collection of used oil. Vendor shall take care of treatment & disposal a their site premises as per OSPCE
				fencing with controlled/limited entry points. Hazardous wastes (used oil & used battery) will be sent to OPCB approved recyclers.	norms. Used oil is being recycled through
				Medical facilities including first aid will be available for attending to injured workers. Regular check of pipelines and tank farms	authorized recyclers. Proper Care is taken when handling of this hazardous waste and a well- marked storage shed is used for storage of hazardous waste.
				Emergency alarms, provision of fire hydrant system and fire station. Effective Disaster Management Plan (DMP) which covers onsite and offsite emergency plans.	Hazardous Waste Storage and Handling Facilities will be upgraded during the advance stage of Phase II operation.
10.	Fishing activity	Fishermen livelihood	Impact on fishing due to vessel movement	Creation of awareness among the fisher folk about orientation of approach channel	Fishermen Community are a part of the port community and we have regular and positive interactions with them.
					Oriental of Navigational Channel is well marked with marker buoys and known to the fishing community

ANNEXURE-XIII ENVIRONMENT CLEARANCE COPY TO ZILLA PARISAD

ENVIRONMENT CLEARANCE COPY TO ZILLA PARISAD

The Dhamra Port Company Limited

Second Floor, Fortune Towers, Chandrasekharpur, Bhubancswar - 751023. Tel: 0674 - 2303829, Fax: 0674-2303828, E-mail: dpcl@dhamraport.com Website: www.dhamraport.com, CIN-U452050R1998PLC005448



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

Himaner Sheklar Salm

Mob - 9777453847

J. Dur of 1 2014

Poesident, Zilla Parishad

ANNEXURE-XIV LICENSE AND NOC FROM FIRE DEPT LICENSE OF STORAGE OF EXPLOSIVES



ANCE (स्था)
Government of India
विजिज्य और उद्योग मंत्रालय
Ministry of Commerce & Industry
रेट्रोलियम तथा विस्कृदिक सुरक्षा संगठन (सेरो)
Petroloum & Explosives Safety Organisation (PESO):
F-3514, से. जे. से नगर,
सुवतंत्रवर-751014
F-5574, BJB Nagar,
Bhubaneswar -751014

E-mail : dyccebhub@explosives.gov.in Phone/Fax No : 0674-2433370,2433390 Fax 2430656

संख्या /No. ; P/EC/OR/14/1587 (P237780)

सेवा में 170,

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

,

2 4 DEC 2018

दिज़ाक /Dated : ,24/12/2018

विषय /Sub : Plot No. Plot No.698(P), Khata No.183, Mouza - Doshinga, Tahasil - Chandabali, District: BHADRAK, State: Odisha, PIN: 999999 में स्थित विद्यमान पेट्रोलियन वर्ग A,B Consumer Pump की अवज्ञानित संख्या P/EC/OR/14/1687 (P237780) - নৱীলন্দ। के संदर्भ में । Existing Petroleum Class A,B Consumer Pump at Plot No. Plot No.696(P), Khata No.183, Mouza - Doshinga, Tahasil - Chandabali, District: BHADRAK, State: Odisha, PIN: 999999 - Licence No. P/EC/OR/14/1587 (P237780) - Reg Renewal of Licence.

महोदय /Sir (s).

कृपया आपके उपर्युक्त विषय से संबंधित पत्र संख्या nil दिनांक 24/12/2018 का संदर्भ ग्रहण करें ।

Please refer to your letter No. nil dated 24/12/2018 on the subject.

आवृत्तिन सं PIEC/OR/14/1587 (P237780) दिलांक 04/10/2010 दिलांक 31/12/2021 तक नवीजीकृत कर लीटाई जा रही हैं । Licence Na. PIEC/OR/14/1587 (P237780) dated:04/10/2010 is returned herewith duly renewed upto 31/12/2021.

कृषमा पेट्रोलियम नियम,2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें । अनुमन्ति के नवीकरण हेतु समस्त दस्तावेजों को दिनांक 31/12/2021 या उससे पहेरों 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 so as to reach this pilice on or before 31/12/2021.

कृपया पावती दें । Please acknowledge the receipt,

अवधीय Mours faithfully

((ए.के.मीता)
(A·K Meena))
বিম্ফাতক নিৰ্যাক Controller of Explosives কুল তথ সূত্ৰৰ বিম্কাতক নিৰ্যাক For Dy. Chief Controller of Explosives ধুবন্ধবাস্তিhubaneswar

(এটিক जानकारी और आवेदन की स्थिति, बुरूक 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)

प्रस्य XIV (प्रयम अनुसूची का अनुस्केद 5 देखिए) FORM XIV (see Article 5 of the First Schedule)

मोटर वाहनों में ईंधन डालने के लिए पम्प आउटफिट के संबंध में टैंक या टैंकों में पेट्रोलियन अंडारकरण के लिए अनुजस्ति LICENCE TO STORE PETROLEUM IN TANKIS IN CONNECTION WITH PUMP OUTFIT FOR FUELING MOTOR CONVEYANCES

अंनुज्ञित सं. (Licence No.) : P/EC/OR/14/1587(P237780)

फीस रूपए (Fee Rs.) 5000/- per year

पेट्रोलियम अधिनियम, 1934 के उपवर्धों और उसके अधीन बनाए गए नियमों तथा इस अनुसप्ति की अतिरिक्त शर्तों के अधीन रहते हुए 22,00 KL of Petroleum class B को टैंकटिंको में भण्डारकरण मात्र के लिए The Dhamra Port Company Limited, 2nd. Floor, Fortune Towers, Chandrasekharpur, Bhubaneswar (M. Corp.), Taluka: Bhubaneswar (M. Corp.), District: KHURDA, State: Odisha, PIN: 751023 को नीचे वर्णित अनुजप्त परिसरों में जो कि इससे उपबध्द नक्शा संख्यां P/EC/OR/14/1587(P237780) तारीख 24/12/2018 में दिखाया गयां है, के लिए विधिमान्य अनुजप्ति अनुदत्त्त् की जीती हैं।

Licence is hereby granted to The Dhamra Port Company Limited, 2nd. Floor, Fortune Towers, Chandrasekharpur, Bhubaneswar (M. Corp.), District: KHURDA, State: Odisha, PIN: 751023 valid only for the storage of 22.00 KL of Petroleum class B in tank/s in the licensed premises described below and shown on the plan no: P/EC/OR/14/1587(P237780) dated 24/12/2018 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुजल्ति 31st day of December 2021 तक विधिमाल्य रहेगी । The Licence shall remain in force till the 31st day of December 2021

October 4, 2010

For Jt. Chief Controller of Explosives

अनुभन्त परिसरों का विवरण और अवस्थान DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुजयन परिसर जिसकी सीमाएं संतरत नरूशे में दिखाई गई हैं Plot No. Plot No. 628(P), Khata No. 163, Mouzz - Doshinga, Tahasil - Chandabali, District: BHADRAK, State: Odisha, PIN: 999999 में स्थित हैं और उसमें निम्नलिखित सम्मितित हैं:

The licensed premises, the boundaries of which are shown in the attached plan, are situated at Plot No. Plot No.696(P), Khata No.183, Mouza - Doshinga, Tahasil - Chandabali, District: BHADRAK, State: Odisha, PIN: 99999 and consist of:

- क पेट्रोलियम वर्ग क परिसर के लिए NIL किलोलिटर क्षमता के/क्रमशः 1 क्षमता के भूमिगत गैस टाईट टैंक, जो विद्युतवालित/हस्तवालित NIL डिस्पेन्सिंग पम्पो से जुड़े हुए हैं !
- a 1 number(s) underground gas tight tanks of capacity NIL kilolitres respectively of petroleum Class A connected with NIL number(s) electrically/manually operated dispensing pump(s)
- ख पेट्रोंबियम वर्ग खांग परिसर के लिए 22.00 किलोंबिटर क्षमता के/क्रमशः 1 क्षमता के भूमिगत गैस टाईट टैंक, जो विद्युतचालित/हस्तघालित 1 डिस्पेन्सिंग प्रस्पो से जुड़े हुए हैं।
- b 1 number(s) underground gas tight tanks of capacity 22.00 kilolitres respectively of petroleum Class B connected with 1 number(s) electrically/manually operated dispensing pump(s).
- ग एक विक्रय कक्ष/कियोस्क
- c A sales room/kipsk
- घ सर्विस सम्बन्धी सुविधाएं जिनमें Pump Attendant Room. सम्मिलित हैं ।
- d. Servicing facilities consisting of Pump Attendant Room. As per attached plan

नवीनोकरण के पुष्ठांकन के लिए स्थान SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुजप्ति की शती का उत्तवंधन न होने की दशा में यह अनुजप्ति किस में जिना किसी छूट के दस वर्ष तक नवीकृत की आ सकेगी! This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.	नवीकरण की तारिख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.
1).	18/02/2013	31/12/2014	Sd/- Dr. P. K. Rana Controller of Explosives For Dy. Chief Controller of Explosives Bhubaneswar
2).	09/04/2015	31/12/2016	Sd/- Subásis Ray Controller of Explosives For Dy. Chief Controller of Explosives Bhubaneswar
3) .	27/12/2016	31/12/2018	Sd/- Subasis Ray Controller of Explosives For Dy-Chief Controller of Explosives Bt/Daneswar
4).	24/12/2018	31/12/2021	A K Meena Controller of Explosives For Dy. Chief Controller of Explosives Bhubaneswer

यदि अनुसन्ति परिसर इसमें उपाबद विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुसन्ति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुजन्ति रद्द की जा सकती है और अनुजन्तिधारी प्रथम अपसंघ के लिए साधारण कारावास से, जो

e अनम स किया का अल्लायन हान का दशा स यह अनुजाप्त रह का जा सकता है आ अनुजाप्तायारा अयम अपराध के लिए साधारण कारावास से एक साम तक हो सकता है, या जुर्मीन से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मांस तक हो सकता है, या जुर्मीन से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा | जो तीन मांस तक हो सकता है, या जुर्मीन से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा | जो तीन मांस तक हो सकता है, या जुर्मीन से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा | जो तीन मांस तक हो सकता है, या जुर्मीन हो ते सकता है, या दोनों से, दण्डनीय होगा | जो तीन मांस तक हो सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनों से, दण्डनीय होगा | जो तीन सकता है, या दोनो

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



OFFICE OF THE FIRE PREVENTION OFFICER: ODISHA, BRUBANESWAR

No__<u>293</u>__/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.

264 BN 18

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, 8hubaneswar 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.

Est.

The following the protection measures have been provised to the above mentioned areas as indicated against each.

Mo.	· ·	No. of external hydrant	No. of internal hydrant.	No. of Monitors	Smolte detectors	Manual call point with hooters
QI.	Motor Control Centian A	1 ra.	#2 70 to via all	Dr. ale No.	DZ nos	O2 nos
<u>92</u>	Motor Control Center-2	2nes	Parallel Annual Control of the Contr		18 aos	. G2 nos
03	Motor Control Center-3	· 2nos	The state of the s	Problems to the first of the second s	09 nos	01 no.
C4	Motor Control Center-4	Znos	American Marie Marie And Spring Andrews make	Section 14 mm	06 nos	01 no.
05	Fire water Pump house	01 no.	A 100 the see	and the second s	has has	Maria dala ser um
06	Water treatment Plant		The State of the S		An anti-compare consequent measurement of the second	. was an
07	Administrative Office	04 nos	06 nos	A south	TO COMMISSION OF THE PARTY OF T	White of the Minimum in the Analysis are present to the comment of the present of
08	Rail loading . system for Coal	~~~	C6 nos	01 no.		Charles and Journal on a respect of the development on a
09	Rail loading system for Lime stone	manganistanting of the last figures and the manganistanting of the state of the second	Q5 nos	Ol no.	The second secon	A Minch is administrated that agrees the grantee to add in order or and the grantee to a second order or and the grantee to a second order or and the grantee to a second order or an arms of the grantee to a second order or an arms or a second or arms or a second or a se
10	Switch yard.	01 no.	enter an annual		\$	ha an ap
11	Coal stack pile area	59 nos	The second of th	13 nos	Emercian among proposition option of the	And the second s
12	Jetty area.	16 nos		The state of the s	The control of the co	And they see that we have a remarked assessment as a second of the second assessment as a second of the second assessment as a second of the s
13	Transfer points	and the day are	03nos. in each	All world		The control of the co

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. Sesides 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 itrs/min capacity each and one Jockey pump of 450 itrs/min capacity have been installed to supply water to the hydrant and sprinkling system. Two hos. Fire water reservoir of 6,00,000 itrs capacity each have been provided to supply

water to the fire-lighting system. Besides 0% and $0o_2$ (4.5 kg), 22 acc $0o_2(2.2 \text{ kg})$, 29 acc 0.02 (5 kg) and 19 has 0.02(10 kg). The exchange bare pear installed at required places.

All the above mentioned—fire protection measures were test specked 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.

Sdr

Fire Prevention Officer Odisha, Bhubaneswar

ANNEXURE-XV ADVERTISEMENT IN LOCAL NEWSPAPER INTIMATING GRANT OF ENVIRONMENTAL & CRZ CLEARANCE

ADVERTISEMENT IN LOCAL NEWSPAPER INTIMATING GRANT OF ENVIRONMENTAL & CRZ CLEARANCE

SAMBAD, Bhubanes Dar 17 Jan 2014, P.5

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ANNEXURE-XVI ENVIRONMENT STATEMENT FOR FY 2017-18



Ports and Logistics

DPCL/ENV/OSPCB/2019-105

26.09.2019

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, 2019 for

M/s The Dhamra Port Company Limited.

Ref: Consent Order No. 12090/IND-I-CON-6348 dated 13.09.2017

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 2019.

Thanking you,

Yours faithfully,

For The Dhamra Port Company Limited

35

Krishna Kumar Head Environment

Encl: As above.

Copy to:

The Regional Officer,

State Pollution Control Board, Odisha

Plot no. -1602, Ganeshwarpur, Januganj, Balasore - 756019

The Dhamra Port Company Ltd

(A Wholly Owned Subsidiary of APSEZL) At: Dosinga, PO: Ohamra Bhadrak 756 171 Odisha, India CIN: U452050R1998PL0005448 Tel +91 674 230 4500 Fax +91 674 230 3828 Info@adani.com www.adanipores.com



FORM V

(See Rule 14)

Environmental Statement for the Financial Year ending 31st March 2019

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

Primary (STC Code)

Secondary (STC Code)

: Red-B

NA

NA

(iii) Production Capacity

: 71.84 Million MT/Annum Cargo & 1 Million

TEU/Annum Containerized Cargo

(iv) Year of Establishment

: 2000

(v) Date of last Environment Statement

submitted

: 19th September, 2018

PART - B

Water and Raw Material Consumption

(i) Water Consumption

Water Consumption Cu. Mtr./Day	
Process	Nil
Cooling	Nil
Domestic	448.68 m ³ /day
Dust suppression	1131.04 m ³ /day
Fire fighting	597.47 m ³ /day

	Process Water Consumption per unit of Product Output		
Name of Products	During the current financial year (2017-18)	During the current financial year (2018-19)	
Handling of Iron Ore, Coal, Limestone*	0.027 m ³ /Ton	0.031 m ³ /Ton	

(ii) Raw Material Consumption

Name of	Name of	Consumption of Raw Material per Unit of output		
Raw Material	Products	During the previous financial year (2017-18)	During the current financial year (2018-19)	
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)

Pollu	tants	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	Monitorii	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.

PART - D

<u>Hazardous Wastes</u> (As specified under Hazardous Wastes Management and Handling Rules 1989)

	Total Quantity		
Hazardous Wastes	During the previous financial year (2017-18)	During the current financial year (2018-19)	
(a) From Process Used oil /Spent oil	6.068 KL	21.607 KL	
(b) From Process Waste Oil (Cargo residue, washing water and sludge/ Ballast water containing oil from ship)	Nil (Note: Included in Hazardous Waste Authorization from August 2018)	213.0 KL	
(c) From Process Waste, residue containing oil / Cargo residue & Sludge containing chemicals/ Sludge & Filters contaminated with oil	0.683 MT	0.823 MT	
(d) From Pollution Control facilities	Nil	Nil	

The Dhamra Port Company Limited

PART-E

Solid Waste

	Total Quantity Generated (MT/Annum)		
Solid Waste	During the previous financial year (2017-18)	During the current financial year (2018-19)	
(a) From Process (Ash)	Nil	Nil	
(b) From Pollution Control facilities	2.075 MT/Annum	2.890 MT/Annum	
(C-1) Quantity recycled or reutilized within the unit	2.075 MT/Annum	2.890 MT/Annum	
(C-2) Sold	Nil	Nil	
(C-3) Disposed	Nil	Nil	

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:

SI. No	Name of waste	Generation quantity	Disposal method
1	Used oil /Spent Oil	21.607 KL	Sold to Authorized Recyclers /Reprocessors
2	Waste Oil (Cargo residue, washing water and sludge/Ballast water containing oil from ship)	213.0 KL	Sold to Authorized Recyclers /Reprocessors
3	Waste, residue containing oil / Cargo residue & Sludge containing chemicals/ Sludge & Filters contaminated with oil	0.823 MT	ACC for co-processing /energy recovery/Stored in HW Shed

DPCL has got the authorization from OSPCB vide letter no. IND-IV-HW-894/9967 on dated 24.08.2018 for handling of hazardous waste like Used oil/Spent oil, Waste oil (Cargo residue, washing water and sludge/ Ballast water containing oil from ship) and Waste, residue containing oil / Cargo residue & Sludge containing chemicals/ Sludge & Filters contaminated with oil valid till 31.03.2020.

The Dhamra Port Company Limited

Solid Waste				
SI. No	Name of waste	Generation quantity	Disposal method	
1	Paper waste	15.427 MT	Recycled for making note pad through third party recycler	
2	Plastic waste	21.226 MT	Sent to M/s ACC for co-processing/energy recovery	
3	Glass Waste	3.258 MT	Sold to scrap vendor for recycling.	
4	Food waste	198.213 MT	Used for making compost for horticulture use.	
5	STP Sludge	2.890 MT	Used as manure in horticulture work	
6	Wooden Waste	0.400 MT	Reused in in-house construction work	

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.
- Two no's of settling ponds have been constructed to treat the water from the port area. In settling ponds, the suspended materials (coal and iron fines) will be arrested and treated water is used for dust suppression purpose.
- 2 nos of mechanized road sweeping machine has been deployed for cleaning of road.
- Regular monitoring of Ambient Air Quality by a MOEFCC accredited agency to meet the prescribed standard by concerned authority.
- Green beit has been developed inside & outside of the port.
- During the financial year 2018-19, the total amount of Rs. 9.34 Crores was incurred on environmental protection measures.
- 50 KLD capacity of rain water harvesting structure has been developed for reutilization of rain water in plantation purpose.
- Trawler has been provided to Forest Department, Govt. of Odisha for patrolling purpose for conservation of Olive Ridley turtle.

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 2,16,000 plants till date 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 51,321 plants suitable for the site have been planted at Port site apart from the rail road corridor plantation mentioned above.
- 21,120 no's of plantation have been done in nearby village area & 1,000 nos. of avenue plantation has been done.
- 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.
- Use of high pressure rain guns to reduce the fugitive emission from stack yards
- Use of Dust Suppression System (DSS) in conveyor line
- Use of fogging system in wagon tippler
- Use of water sprinkling tanker
- Use of mobile dust buster machine for reducing the fugitive emission
- Dedicated team for doing housekeeping work
- Use of tarpaulin cover on stack yard and transporting wagon
- Use of closed conveyor system in entire port
- All conveyor transfer points are closed in nature
- Use of hopper for unloading of materials from vessels. Dust suppression system is installed in unloading hoppers
- Periodic maintenance of dust suppression equipment's for better performance and efficiency.
- Use of mechanized road sweeping machine for cleaning the roads
- Development of multilayer plantation in various locations.

PART - I

Any other particulars for improving the quality of environment:

- Dhamra Port committed to promote a culture seeking continual improvement in Environment performance of the organization.
- Dhamra Port emphasizes on implementing Environment Management System to optimize its
 resource consumption, improve efficiencies, reduce wastes by adopting 5R principles, enhance
 operational safety to minimize environmental risks. The environmental concerns are considered
 and addressed adequately during planning, project development and operations.

The Dhamra Port Company Limited

- 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.
- Under the inspiration of Prime Minister's Clean India Mission, APSEZ has developed a vision for making itself – "A Zero Waste Company" by the year 2020. APSEZ's vision is based on adoption of 5 R's principle of waste management, i.e Reduce, Reuse, Reprocess, Recycle & Recover.
- 100 % waste water generated is being reused and recycled.
- Waste camps are being organized in township for collection of waste materials from township
 residents so as to collect other waste apart from garbage. The main intention is to make the
 area waste free and for creating awareness among resident.
- DPCL believe in sustainable development and are working in close harmony of biodiversity rich area. We are regularly monitoring our foot prints on environment.
- Adopted the 5Rs principle in our port premises
- · Achieved Zero discharge of waste water.
- Achieved Zero Plastic used inside our Port Premises.
- Waste paper Recycling
- Use of Eco- Friendly which is made of waste paper.

Roof top Solar power generation – 4.0 MWp

Date: 26-09-2019

(Signature of a person carrying out an industry,

operation or process)

Name: Krishna Kumar

Designation: Head Environment

Address: M/s The Dhamra Port Company Limited

Village-Dosinga, Po. Dhamra,

Dist-Bhadrak, Odisha

Annexure 1

