The Dhamra Port Company Limited

(A joint venture of L & T and Tata Steel)
Second Floor, Fortune Towers, Chandrasekharpur, Bhubaneswar - 751023.
Tel: 0674 - 2303829, Fax: 0674-2303828, E-mail: ceo@dhamraport.com

Website: www.dhamraport.com



Santosh K. Mohapatra, IAS (Retd)

CEO

7th June, 2012

The Chief Conservator of Forests Ministry of Environment and Forests Government of India Eastern Regional Office A/3, Chandrasekharpur Bhubaneswar – 751 023

Sub: Half Yearly Compliance Report of Dhamra Port Expansion Project at Village Dosinga, Chandbali Tehsil, Bhadrak District

of Odisha.

Ref: Letter No.PD/26017/98-PDZ(CRZ) dated 4th January, 2000 of Government of India, Ministry of Surface Transport (MoST).

Dear Sir,

The Half Yearly Compliance Report of Dhamra Port Expansion Project for the period from October, 2011 to March, 2012 is submitted herewith in both hard & soft copy.

Thanking you,

Yours sincerely,

(Santosh K Mohapatra)

COMPLIANCE REPORT

Name of the Project	Expansion of Dhamra Port Company Limited, Located at
	Village Dosinga, Tehsil Chandbali, Bhadrak District of
	Odisha
Environmental Clearance	Letter No. PD/26017/8/98-PDZ (CRZ) Dated 4 th January,
Letter No.	2000 of MoST
	For Cargo Handling Capacity of 25 MTPA
Period of Compliance Report	October 2011 to March, 2012

Conditions & Compliance of Environment Clearance

Si.	Environment Clearance Conditions	Compliances
No.		
i)	All Construction design/drawings	All drawing and designs have the approval
	relating to construction activities must	of the Government of Odisha, vide letter
	have the approval of the concerned	No. DPP-4/07.1331/Com Dt. 19.2.2007
	Government Departments/Agencies of	and Memo no 1153/Com. Dt. 14.2.2007 of
	the State Government of Odisha.	Commerce & Transport Dept.
		Ground water has not been drawn for
	Ground water should not be tapped for	constructional activities. DPCL uses water
	construction activities as the drawl of	drawn from Matai river & stored in its
	ground water for industrial use from the	reservoir both for construction &
	CRZ area is a prohibited activity.	operational purpose.
ii)	Adequate provision for all	The facilities such as water supply, fuel,
	infrastructural facilities such as water	sanitation etc. for laborers have been
	supply, fuel, sanitation etc. must be	provided by the firms engaged for
	extended for laborers during the	construction & operation of the port.
	construction period in order to avoid	
	damage to the environment.	
iii)	Dredging operations if any, should be	NIO, Goa was engaged to study the impact
	undertaken in consultation with either	of dredging operations & advise the
	the Central Water and Power Research	company accordingly. The dredging has
	Station, Pune or National Institute of	been executed under the expert guidance of
	Oceanography, Goa or any other	IUCN to ensure conservation of marine
	authorized agency to ensure that	life. The CSIR-Institute of Mineral &
	dredging operations do not cause	Material Technology, Bhubaneswar has
	adverse impact on water quality and	been monitoring the air, water and
	marine productivity in the vicinity.	biological parameters both in marine &
	Dredging operation as far as possible	terrestrial environment regularly.
	should be kept to the minimum for	
	avoiding any adverse impact on marine	
	life.	

iv)	Disposal sites for example of material	DDCI has answered that the abance in land
10)	Disposal sites for excavated material	DPCL has ensured that the change in land
	should be so designed that the revised	use pattern do not interfere in the natural
	land use after dumping and changes in	drainage. The natural drainage, existing
	the land use pattern do no interfere with	earlier has been maintained after execution
	the natural drainage.	of project.
v)	To meet with any emergency situation,	DPCL has prepared & implemented the
	adequate foam containers should be	Disaster Management Plan, Health and
	kept ready with supporting fire fighting	Safety Management Plan & firefighting
	system and water pipeline.	plans. Adequate safety equipments, foam
		containers, fire extinguishers have been
		kept at strategic points to ensure safety.
vi)	Staff posted in sensitive areas should be	The employees of DPCL have been trained
	trained in implementation of the Crisis	on safety guidelines. Regular Mock Drills
	Management Plan already drawn by the	are conducted as per the Crisis
	authorities. Mock Drill(s) for this	Management Plans. The Drill & Safety
	purpose should be conducted on a	Performance Report is monitored by the
	regular basis. Provisions of Dock Safety	EHS Department. The following trainings
	Act and the Guidelines issued by the	for environmental safeguard measures
	DG, FASLI/CLI, Mumbai for the safety	have been conducted between October
		2011 and March 2012.
	and health of the workers should be	2011 and March 2012.
	followed.	• Fire Drill & Fire Fighting Training- 35
		 Price Drift & Prighting Training- 33 Drivers Awareness Training- 6
		• Induction Training- 55
		• On the Job Safety Training- 18
		Off the Job/Awareness training- 20
		Tool Box Training- 81
vii)	For development of Green Buffer	A large nursery of multipurpose species
,	including mangroves wherever feasible,	has been established for raising quality
	the authorities should start growing	planting material for the green belt. Green
	large nursery of multipurpose species	belt has been developed at the port site &
	such as Eucalyptus, Casuarina,	along the 62 km Rail/Road corridor. Strip
	Dalbergia, Terminalia etc. The norm of	plantation on both the edges of railway
	about 2000-2500 trees per Hectare may	corridor has been taken up & 1, 60,000
	be adopted for raising of green belt.	plants have been planted along the north &
	Necessary permission may be obtained	south edges of the corridor. Plantation of
	for cutting of trees, if any, for the	suitable species has been taken up in and
	project	around the port bulb and admin/Residential
		area with effect from 2010 & is continuing.
		So far 1, 23,000 plants suitable for the site
		have been planted. Details regarding plant

		species & cost have been furnished at Annexure-III.
		Necessary permission for felling of 267 miscellaneous trees has been obtained from the competent authority of the Forest Department & the felling was executed by the Odisha Forest Development Corporation Ltd.
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.	DPCL has installed a sewage treatment plant to handle 140 KLD of sewage per day. DPCL's sewage treatment/waste disposal system is in accordance to the prescribed discharge standards. For treatment & disposal of liquid waste & ballast authorized agencies have been engaged by DPCL.
ix)	Adequate noise control measures must be provided to noise levels at various work places within the standard prescribed by the competent authorities. If need be, ear plugs and ear muffs should be provided to the workers in the project area	Noise levels are well within OSHA limits. Workers are provided with ear plugs and ear muffs whenever exposed to higher noise levels. Noise Control measures have been followed at both on shore and off shore work sites. Regular noise monitoring is conducted by CSIR-Institute of Mineral & Material Technology, Bhubaneswar.
x)	The quality of treated effluents, solid wastes and emissions must confirm to the standards laid down by the competent authority including State Pollution Control Board, Govt. of Odisha, Bhubaneswar	DPCL's sewage treatment/waste disposal system is confirming to the standards laid down by Odisha State Pollution Control Board (OSPCB).
xi)	An Environmental Cell should be set up immediately and made operational with adequate laboratory facilities, equipments and a mobile van for collecting air samples. The record and data should be submitted with proper analysis and corrective measures required, if any, for maintaining the levels within the prescribed limits to the Eastern Regional Office, Ministry of	Environment Cell has been established consisting of an EHS Sr. Manager, Deputy Manager, Junior manager, Executive and 5 other Chemists & Operators. DPCL is having a full fledged Laboratory Facility with all required instruments for regular environmental monitoring. EHS Deputy manager is regularly co-ordinating & monitoring different environmental mitigative measures. The order

Environment & Forests, Govt of India, constituting the Environmenta	1 Monitoring
Bhubaneswar. The Environment Cell Cell & list of instruments	_
should coordinate and monitor enclosed at Annexure – IV.	ilistalieu is
environmental mitigative measures	1' 41
executed in the project area. The DPCL has institutions	
Project Proponent is advised to environmental monitoring by	
institutionalize their Environmental recognised scientific institute	•
Monitoring through some recognized CSIR-Institute of Mineral	& Material
Scientific Institution for the project. Technology, Bhubaneswar and	l their report
including the analysis of data a	re submitted
to the Eastern Regional Of	fice, MoEF,
Bhubaneswar.	
xii) Necessary leakage detection devices There is no need to inst	tall leakage
with early warning system must be detection system at this stage a	is the project
provided at strategic locations. does not involve storage of a	ny liquid or
gaseous cargo.	_
xiii) Standby DG sets must be provided to 7 DG Sets covered with	th acoustic
ensure uninterrupted power supply (to) enclosures have been installed	d at site for
the pump house and the fire fighting emergency backups & uninternal	
system supply at the work site which	
water supply system and f	
system. Diesel operated pum	
installed at fire water pump	-
emergency backups in addit	
electric operated main pump	
	and jokey
xiv) Third party inspection should be Third party inspection is	aanduatad
int, and purely inspection in the purely inspection is	
ensured during the construction and through CSIR-Institute of M	
operational phases with adequate Material Technology, Bhubane	eswar.
insurance cover. The Project authorities	
should confirm on regular intervals of Half Yearly Reports	regarding
1	nvironmental
implementation of the suggested safeguard measures are regular	•
safeguard measures and the data/report on 1st June and 1st December, of	• •
should be opened for inspection by the the Eastern Regional Office	of MoEF,
	asures are
Ministry, If found necessary inspected by the Regional O	office of the
Ministry.	
xv) Full support should be extended to the Full support is always being	extended to
Eastern Regional Office, Ministry of the Eastern Regional Office,	catteriaca to
Lastern Regional Office, ministry of the Lastern Regional Office,	

	Bhubaneswar during inspection of the	during their inspection of the Project. All
	project for monitoring purposes by the	the details and ATR are submitted as and
	project proponents by furnishing full	when required by the Ministry.
	details and action plans including	
	action taken report on mitigative	
	measures.	
xvi)	Adequate funding provisions, year-wise	Adequate funding has been provided for
	and item-wise, must be made for	the implementation of all safeguard
	implementation of the above mentioned	measures. So far INR 44.01 Cr has been
	safeguard measures.	expended for implementing environmental
		management Plan from Yr 2008-12.
		Details of item & year wise fund allocation
		break up are enclosed at Annexure-I.
xvii)	The Rapid Environmental Impact	The Rapid Environmental Impact
	Assessment Studies for the construction	Assessment Study has been conducted in
	of the above project by M/s Kirloskar	time & the said report has been submitted.
	Consultants Ltd. should be expedited.	DPCL has already formulated detailed
	The project proponent was advised to	Disaster Preparedness & Management Plan
	keep in mind the proneness of the coast	to handle any natural calamities such as
	of Odisha to sever cyclonic storms while	cyclones, storms, quakes etc., along the
	going ahead with their project.	Coast.

Conditions & Compliance of National Environment Appellate Authority Judgement of the year 2000

Sl.	Conditions of the National	Compliances
No.	Environment Appellate Authority	
	order Dt. 8 th May 2000	
1)	Mangrove patch of 200 plants, to be	Sincere effort has been made to protect the
	excluded from the project area,	patch of mangrove plants on the southern side
	fencing & maintenance to be done by	of the port. But it is difficult to guard against
	project proponent	the local villagers as strict measures may
		cause law and order problems. However,
		awareness programmes have been taken up to
		motivate the villagers and fisherman for
		protecting the mangroves. It is proposed to
		associate Xavier Institute of Management,
		Bhubaneswar for conducting awareness
		programme in the neighboring villages.
2)	Constitution of Environment	Environment Monitoring Committee has been
	Monitoring Committee	Constituted by the State Government on 14 th
		January 2008.

Annexure-I

Ministry of Environment & Forests Regional Office BHUBANESWAR Monitoring Report Part-I

DATA-SHEET

1. Project type: River-valley/Mining Industry/Thermal/Nuclear/Other (Specify).

: Expansion of Port

2. Name of the Project

: Dhamra Port Expansion Project

3. Clearance letter(s)/OM No. & Date

: PD/26017/8/98-PDZ (CRZ)

Dated 04.01.2000

4. <u>Locations</u>:

a) District(s) : Bhadrakb) State(s) : Odisha

c) Latitude/Longitudes

: Lat 20° 48' N to 20° 52'N : Long 86° 56' E to 86° 59'E

5. Address of Correspondence:

a. Address of concerned project : The Dhamra Port Company Ltd.

Chief Engineer/Manager (with pin 2^{nd} floor, Fortune Tower

code & telephone/telex/ fax numbers : Chandrasekharpur,
Bhubaneswar-751 023

: 0674-2303829, fax-0674-303828

b. Address of Executive Project : Cdr. Anil Kumar Kar,

Engineer/ Manager (with pin code : Vice President (Projects) &

telephone/telex/fax numbers) Conservator of Ports, Village-Dosinga,

Dhamra

6. <u>Salient Features</u>:

a. of the project :Enclosed as Annexure-I-A
b. of the environmental management plan :Enclosed as Annexure-I-B

7. <u>Break up of the Project areas</u>:

a Submergence area (forest & non-forest) : Not Applicable

b. Others. : Port Area- 300.12 Ha

Rail Road Corridor- 906.1 Ha

Total Area allotted and occupied = 1206.22 Ha

8.

Break up of Project affected population, a) Losing House – 181 families with enumeration of those losing b) Total rehabilitated – 177 families houses/dwelling units only, c) Compensation paid – Rs. 8.57 crores agricultural land and land less ii) Rural Artisans – Not Applicable labourers/artisans (**Port Area**) iii) Land Less Labours- Not Applicable

a. SC, ST/Adivasisb. Others: SC - 6 families, ST/ Adivasi: 0: General Category: 175 families

9. Financial Details	: Year	Project cost	
		(In INR Crores)	
a. Project cost as originally	1998	1197.43	
Dlamed and subsequent needed	2002	1520.00	
Planned and subsequent revised	2003	1520.00	
Estimates and the years of	as on date	3639.00	
Price reference			

Allocation of funds in Crores (Rs.)

	Total	3639.00
11.	Interest Paid	523.00
10.	Contingency	172.00
9.	Pre & Post Operative Expenses	276.00
8.	Margin Money	5.00
	& ERP	75.00
7.	Purchase of miscellaneous Fixed Assets	
6.	Repayment of unsecured bridge loan	0
5.	Railway Locos	2.00
4.	Navigational Aids	10.00
3.	Dredging & Reclamation	826.00
2.	Construction Contract	1652.00
1.	Advance to GoO for Land Acquisition	98.00

b. Allocation made for environmental management plans, with item-wise and years-wise break up:

S. No	Item	Up to 2011	During 2011-12	Total
1	Monitoring of Environment Parameters by IMMT	1.05	0.5	1.55
2	IUCN	3.86	0.2218	4.08
3	WTP	46.5	0.68	47.18
4	Shoreline Changes Study by NIO and others	0.63	0	0.63
5	Water Drainage Management	4.5	2.47	6.97
6	Environment Awareness & Outreach Programmes	0.13	0	0.13
7	Demarcation of Gahirmatha Marine Sanctuary	0.24	0	0.24
8	Providing Trawler to Forest Dept for Patrolling	0.14	0.02	0.16
9	Plantation	4.17	0.07	4.24
10	EIA for Phase II (RAMBOLL)	0.42	0.109	0.529
11	EMP (IUCN)	0.04	0.011	0.051
12	ISO 14001 Certification		0.04	0.04
13	Water Sprinkling on Road	0.05	0.024	
14	Safety	0.14	0.27	0.41
	Total	61.87	4.416	66.3

c. Benefit cost ratio/internal rate : IRR—14% of return and the year of assessment 2011-2012

d. Whether (c) includes the cost of environmental management as shown in (b) above.

e. Actual expenditure incurred on the project so far : INR 3639 Cr.

: YES

f. Actual expenditure incurred on the environmental management so far.

S. No.	Item	Up to 2011	During 2011-2012	Total
1	WTP	28.39	0.678	29.068
2	Drainage Management	1.4	0.607	2.007
3	IUCN Fees	4.14	0	4.14
4	Plantation	2.91	0.53	3.44
5	Monitoring of Environment Parameters by IMMT	0.725	0.30	1.025
6	Establishment & Functioning of Environment Laboratory	0.08	0.075	0.155
7	Turtle Awareness outreach programmes	0.15	0	0.15
8	Trawler to Forest Dept for Patrolling		0.18	
9	Dredging Monitoring	0.35	0.33	0.68
10	Installation, O & M of 140 KLD STP	0.35	0.092	0.442
11	Fire Tenders & Fire Fighting System	0.063	0.108	0.171
12	Demarcation of Gahirmatha Marine Sanctuary	0.177	0	0.177
13	Statutory Fees deposited to SPCB	0.1	0.0075	0.1075
14	Oil Boom & Skimmer	0	0.62	0.62
15	IUCN Environment Management Plan	0.0168	0.116	0.1328
16	Dust Sprinkling & Dust Suppression	0.12	0.0395	0.1595
17	EIA Study RAMBOLL	0.3105	0.05	0.3605
	Additional Studies			
18	NIO Shoreline Changes Study	0.22	0	0.22
19	NIO Study on Dredging Impacts	0.42	0	0.42
20	NIO Study on Hydrodynamic	0.21	0	0.21
21	HTL,LTL Demarcation	0.11	0.011	0.121
22	Mangrove Mapping	0.02	0	0.02
	Total	40.37	3.63	44.01

Total = INR 44.01 Cr

10. The status of clear felling in
Non-forest areas (such as submergence area of reservoir, approach roads),
If any, with quantitative information

: Permission has been obtained for felling of 267 trees from non-forest land on approach road. Odisha Forest Development Corporation Ltd has executed the felling.

11. <u>Status of construction</u>:

a. Date of commencement (actual) : Commencement in 2002.

b. Date of completion (actual) : Commencement of Operation – 06.05.2011

12. Reasons for the delay if the project : Not Applicable.

is yet to start.

Annexure-I-A

The Dhamra Port Company Limited, a special purpose vehicle sponsored by TATA Steel and Larsen & Toubro Limited is committed to develop an all weather and deep water port in the State of Odisha, on the eastern coast of India at north of mouth of River Dhamra. The Project is developed on BOOST basis under a Concession Agreement awarded by Government of Odisha.

SALIENT FEATURES OF THE PROJECT:

- A deep draught navigational channel of 18 mtrs to enable the cape size vessels of 1, 80,000 DWT for handling bulk cargo.
- Dolphin type jetty into Sea thereby leaving the natural slope & tide undisturbed.
- Two dry bulk berths in the first phase
- A complete state-of art fully mechanized and environmentally friendly Cargo handling facility with water sprinkling system for dust suppression and minimum spillage
- A rail cum road corridor from Bhadrak to Dhamra for transportation of cargo from hinterland

Annexure-I-B

ENVIRONMENT MANAGEMENT PLAN

Following are the main areas of the Environment Management Plan

Land Management
 Wildlife Management
 Air Management
 Water Management
 Noise Management
 Light Management
 Miscellaneous

1. LAND MANAGEMENT

ITEM	ACTION	STATUS
	Create Green Belt (Conditions vii. of Env Clearance).	1. Strip Plantation of 1, 60,000 trees has been carried out along the rail/road corridor. More than 1, 23,000 trees have been planted in the Port bulb. Nursery has been established at site for plantation.
	2. Permission from concerned authorities for cutting of trees. (Condition vii of environment	2. Permission has been obtained for felling of 267 miscellaneous species of trees from non-forest land. Odisha Forest Development Corporation (OFDC) has executed the work.
	clearance). 3. Patch of about 200 mangroves located closer to port area be excluded, fenced and maintained. (judgment of NEAA)	3. The patch containing mangroves has been excluded from Project activity area and fenced for conservation of the Mangroves.
2.Land	1. Changes in the Land use	1. Adequate measures have been taken to retain
changes in Land Use	pattern after reclamation should not interfere with the natural drainage. (condition iv. of environment clearance)	natural drainage. Hume pipes, culverts and bridges provided all along rail embankment in consultation with Dept of Water Resources & The Directorate of Water Management (formerly WTCER) to ensure that the rail embankment does not obstruct natural drainage.
		2. Berths are on dolphin type jetty on the sea thereby allowing natural flow of the tides & creeks.

2. WILDLIFE MANAGEMENT

ITEM	ACTION	STATUS
1. Dredging impact on wildlife	1. Monitoring of Water quality by authorized institution to ensure that it doesn't affect marine productivity (condition iii. of environment clearance)	1. CSIR-Institute of Mineral & Material Technology (IMMT), Bhubaneswar has been assigned the water quality monitoring. Additionally NIO, Goa had been engaged to study the impact of dredging operations on marine environment.
		2. Deflectors have been fitted in all Trailer Suction Hopper Dredgers (TSHD) as per design and under guidance of IUCN scientists and engineers.
2.Lighting impact on wildlife	All lights should be dark sky friendly and should not create glare (recommendation of IUCN)	1. DPCL's light management protocol has been developed, implemented under the guidance of IUCN and in line with International Dark Sky Association.
3.Awareness programmes	1. Undertaking of awareness campaigns amongst fishermen and villagers to minimize harm to Olive ridley turtles. (recommendations of IUCN)	1. Awareness programmes including street plays and interactions with fishing community have been undertaken by IUCN and DPCL. Further 9000 school children of fishing communities have been covered by outreach programmes. IUCN–DPCL together with the collaboration with Forest Department, Odisha have organized workshop on "Fisherman Awareness and Use of Turtle Excluder Device" that covered the various aspects of fisherman awareness and trial for use of TED.

3. WATER MANAGEMENT

ITEM	ACTION	STATUS
1.Ground Water	not be drawn from CRZ area for industrial use. (condition	1. No drawl of ground water from CRZ area is either planned or undertaken. Water is drawn from the River Matai (10 km away) and stored in an open reservoir outside the CRZ area of capacity 6.7 lakh m ³ , before treatment at WTP and supply.
2. Sea Water	1. Monitoring of Water quality by authorized institution to ensure that dredging doesn't affect marine productivity (condition iii. of environment clearance & 11 of OPCB consent)	1. Institute of Mineral & Material Technology, Bhubaneswar a CSIR body of GoI has been regularly monitoring the water quality.
3. Effluent	1. Effluent to conform to specified standards. (Condition 5 & 6. of OPCB consent and condition x. of environment clearance).	1. Being a port no industrial effluent will be generated as there is no processing of raw material is involved. Run off from the stack yard is being collected & treated in the settling ponds for precipitation of the suspended solid before using the supernatant water for horticultural use and dust suppression in the port area.
	2. Sewage to be treated according to standards (condition 4. of OPCB consent)	2. A 140 KLD capacity STP has been installed and operational. The treated water from STP is being used for horticultural purpose.
4. Ballast	1. Ballast should be scientifically treated (condition 19 of OPCB consent and viii. Of environment clearance)	1. Ballast is being strictly monitored as per the statutory regulation. Ballast is treated through authorized vendors of OSPCB.

4. AIR MANAGEMENT

ITEM	ACTION	STATUS
1.Dust Suppression	1. Adequate dust suppression systems in the material	1. The material handling is fully mechanized and through covered conveyer belts to reduce dusts.
Suppression	handling to minimize emission. (Condition 8. of OPCB consent)	Water sprinklers have been installed and commissioned at BMH area, transfer points of conveyor belt, loader and unloader on the jetty to reduce fugitive dust emission. Green belt in and around port bulb also acts as sink of fugitive dust.
	1	 Captive stone crushing had been undertaken with Consent to Establish and Consent to Operate from OSPCB. The Port has become operational from 6th May 2011 and no more stone crusher exists now.
	port premises to confirm to standards prescribed under EP rules 1986. Port to install	3. Ambient air quality monitoring is conducted at 5 (Five) different locations in and around the Port. CSIR-Institute of Mineral & Material Technology, Bhubaneswar has been outsourced to do the monthly environmental monitoring. Ambient air quality confirms the prescribed standards of EP rules 1986.
2.Green Be plantation	It 1. Adequate plantation around the port area (condition vii. of environment clearance)	1. More than 1, 23,000 plants have been planted inside the port area surrounding the BMH bulb. Plantation is continuing in the Port area.

4. LIGHT MANAGEMENT

ITEM	ACTION	STATUS
1.Environment	1. Glare created by light can	1. A lighting protocol developed by IUCN has been
friendly	disturb/disorient hatchlings	adopted & regularly monitored to eliminate glare to
lighting system	of olive ridley turtles. Lights	sky from the Port area. It is in line with International
	may be so designed that they	Dark Sky Association.
	do not create glare through	
	spillage by following best	
	practices adopted globally	
	(recommendations of IUCN)	

5. NOISE MANAGEMENT

ITEM	ACTION	STATUS	
1.Noise	1. Adequate noise control	1. The predominant noise levels will be confined to	
Control	measures to keep noise	the work zones in the Port. The noise levels are being	
Measures	within prescribed	monitored at all the sources and ambient noise level	
	standards.(Condition ix. of	are not exceeding the prescribed limit. Community	
	environment clearance)	noise levels are not likely to be affected because of	
		the Green Belt and attenuation due to physical	
		barriers. DG sets are covered with acoustic lining t	
		reduce ambient noise level.	

6. MISCELLANEOUS

ITEM	ACTION	STATUS			
	Design drawings to be approved by concerned Government authorities. (Condition i.e. of environment clearance)	1. Approvals obtained from the Government of Odisha.			
labour		Required infrastructure facilities have been provided for labourers at the project site.			
	1. Fire fighting system to be provided (condition v of environment clearance)	1. Fire fighting system has been installed with required fire tenders.			
	2. Staff be trained in crisis management as per guidelines of DG,FASLI and Provisions of Doc Safety Act (condition vi of environment clearance)	ŕ			
	3. Leakage detection devices	3. Not necessary at this stage as liquid cargo is not			

	strategic locations (condition xii of environment clearance) 4. Standby DG set to be provided (condition xiii of environment clearance)	being planned for the first phase. It shall be installed whenever and wherever necessary. 4. 7 DG Sets covered with acoustic enclosure have been installed at site for emergency backups & uninterrupted power supply at the work site which includes the water supply system and fire fighting
	1. Environment cell to be set up and made operational with laboratory facilities through recognized scientific institution (condition xi of	system. 1. Environment Cell has been constituted consisting of an EHS Sr. Manager, Dy. Manager, Junior manager, Executive and 5 other Chemists & Operators. DPCL is having a Full fledged Laboratory Facility with all required instruments for regular environmental monitoring.
Monitoring & Funding	1. Half Yearly report to be sent to Eastern Regional Office of MOEF who should be given full cooperation and information. (conditions xiv and xv of environment clearance)	1. Half yearly reports are submitted to the Eastern Regional office of MoEF on regular basis.
		2. Monitoring Committee with representation of Beach Protection Council has been constituted by the Government of Odisha for monitoring the project.
	3. Adequate funding be provided.	3. Adequate funding has been provided.

Annexure-II

Brief Status of Construction:

The work which had commenced in 2000 has been resumed and the following is construction / working schedule.

S. No.	Work	Completion Status
1.	Berth	Completed
2.	Bulk Material Handling	Completed
3.	Railway Line	Completed
4.	Water Supply System	Completed

Annexure-III

MINISTRY OF ENVIRONMENT & FORESTS EASTERN REGIONAL OFFICE 194, KHARVELA NAGAR, BHUBANESWAR – 751001

PARTICULARS ON GREEN BELT/PLANTATION UNDER FOREST (CONSERVATION) ACT 1980

1. a) Name of the Organization: Dhamra Port Company Limited (DPCL)

b) Envt. /Forest clearance Order Nos.: PD/26017/8/98-PDZ (CRZ)

Dated 04.01.2000

2. Location: Block/sub. Divn./Dist/ Dhamra/ Bhadrak/ Odisha

State:

3. Address for Communication: The Dhamra Port Company Ltd.

2nd floor, Fortune Tower,

Chandrasekharpur, Bhubaneswar 751023

0674-2303829, Fax-0674-2303828

4. Existing Vegetation in the area/

Region:

a) Species (tree/shrubs/grasses/ 1) Amaranthus spinosus

Climbers): 2) Croton bonplandianum

3) Cynodon dactylon4) Cyperus rotundus

5) Acanthus ilicifolius6) Caesalpinia crista

7) Suaeda maritima

1) Cynodon dactylon

b) Major prevalent species of

each type (grasses) 2) Suaeda maritima

5. Land coverage by the Project:

Submitted for First phase of

Env. Clearance development

a) Total area under the project: 4300 acres 3212 acres b) Area covered for basic infra-2970 acres

structure (roads/railway/ building/factory etc.)

a) Name and number of tree/ : With prior permission from regulatory authority 267 miscellaneous trees have been felled from non-Species felled. forest land and OFDC Ltd has executed the felling. b) Name and number of plant : 1) Acanthus ilicifolius Not enumerated Species still available 2) Croton bonplandianum since mostly herbs in the area 3) Cynodon dactylon and grasses 4) Suaeda maritima c) By protecting the area will : Affirmative (indigenous sp. are coming up indigenous stock come up? naturally in protected areas) d) Extent of green belt developed : Green Belts have been developed over 62 Km long Rail-Road Corridor and also in and around the Port bulb. 7. Plantation required to be carried out as per a) Conditions of Environmental : *Green belt of 50 mtr width* @ 2000 – 2500 Clearance in has./nos per Hectare b) Conditions of Forest (Conservation) Act. Clearance in ha./nos. : Not Applicable c) Voluntarily in Ha/nos. : Strip plantation on both sides of the Rail-Road Corridor over 62 Km. 8. Details about plantation a) Total area available for Plantation in each category (in Acre) i) Green Belt ii) Dumps iii) Back filled areas iv) Road sides v) Block plantation 87 Not Applicable 5 Not Applicable 110

6.

Details about natural vegetation:

b) Plantation details (Category wise & methodology used)

i) Green	Belt				
Year of Plantation	Species planted	spacing	Height Attained	Total Area Covered	Area Still available
2010-2011	Casuarina equisetifolia Acacia mangium Acacia auriculiformis Peltophorum ferrugineum Terminalia arjuna	2mX2.5m 2mX2m 1mX1m	4m	25Acre	62Acre
	Syzygium cumini Azadirachta indica				
iv) Rail	way Corridor plantation				
Year of Plantation	Species planted	spacing	Height Attained	Total Area Covered	Area Still available
2008-2009	Pithecellobium dulce Terminalia catappa Acacia auriculiformis Acacia mangium Delonix regia Peltophorum ferrugineum Bambusa sp. Ficus religiosa Terminalia arjuna Albizia lebbeck Thespesia sp. Syzygium cumini Azadirachta indica Dalbergia sissoo Calophyllum inophyllum	1mX1m	7m	88 Acre	22 Acre

v) Block Plantation

Year Plant		es planted	spacing	Height Attained	Total Area Covered	Area Still available
2011	Casu	arina equisetifolia				
	Acaci	a mangium				
	Acaci	a auriculiformis	2mX2m	3m	4 Acre	1 Acre
		iix regia				
	Azadi	rachta indica				
c) Sur	vival % of pla	ntation				
1 st	r r	2 nd	$3^{\rm rd}$	4^{th}		<u>5th</u>
Year		<u>Year</u>	Year	Year		Year
100%		100%	95%	85%		80%
Sl.	Financial det ation wise and the Year	Funds allocated	Expenditure			age cost
No.		(INR Crores)	(INR Crores	s)		ch surviving t in Rupees
					r ian	i iii Kupees
1	Up to 2011	4.17	2.91			
2	2011-2012	0.07	0.53		122	
10.	-	plantation by and their comments paction.	Plantation was inspected by the Director (S), MoE (Eastern Regional Office) during their annual inspections and have communicated their comment: The observations of director (S) have been compli with and the action taken reports have been submitted.		nnual ir comments.	
11.	Remarks / an	y other information	: Not Applic	able		

Annexure-IV Constitution of Environmental Monitoring Cell

The Dhamra Port Company Limited

(A joint venture of L & T and Tata Steel)
Second Floor, Fortune Towers, Chandrasekharpur, Bhubaneswar - 751023.
Tel: 0674 - 2303829, Fax: 0674-2303828, E-mail: ceo@dhamraport.com
Website: www.dhamraport.com



Date: November 3, 2011

Ref: DPCL / Env - 03/02 / 11

Santosh K. Mohapatra, IAS (Retd)

CEO

Dr. V.P. Upadhyay Scientist 'F' Eastern Regional Office Ministry of Environment & Forests

Dear Sir,

Sub: Environment Monitoring Cell of Dhamra Port
Ref: Your Letter No. 106-7(B) - EPE dated 30th September 2011

With kind reference to the above mentioned letter, we would like to state that we have established an Environment Monitoring Cell with the following personnel manning the cell.

- .·1. Shitikantha Behera, Manager (Environment, Health & Safety), M.Sc., M.Phil Environmental Science, LLB, PG Diploma in Industrial Safety. 13 years of work experience in environment management (including about 9 years in OSPCB)
 - 2. Amlan Dutta, Asst. Manager (Environment, Health & Safety), M.S. Ecology, 12 years of work experience in ecology and environment management.
 - 3. **Jagabandhu Behera**, Jr. Manager (Environment, Health & Safety), B.Tech Electrical, Post Diploma in Industrial Safety with 8 years of work.
 - 4. Susanta Kumar Sahoo (Chemist), Ion Exchange, B. Śc (Physics, Chemistry & Mathematics
 - 5. **B. Ganesh** (Service Engineer STP), Chempure Technologies Pvt. Ltd. ITI Electrician,
 - 6. Raghunath Jena (Operator STP), Chempure Technologies Pvt. Ltd. Sr. School Leaving Certificate (SSLC)
 - 7. Panchanan Sahoo (Operator STP), Chempure Technologies Pvt. Ltd. SSLC
 - 8. Purno Maity, Driver of Monitoring Vehicle.

The List of equipments in the Environment Monitoring Cell is attached overleaf for your kind reference.

Yours Sincerely,

(Santosh K. Mohapatra)

List of Instruments at Environmental Monitoring Cell

Sl.	NAME OF INSTRUMENTS	MAKE	CAPACITY	QUANTITY
No.				
1	DIGITAL pH METER 335	SYSTRONICS	****	1
2	PHYSICAL BALANCE	SUNSHINE	0-100 GM	1
3	DIGITAL NEPHELO TURBIDITY	SYSTRONICS	****	1
	METER			
4	DIGITAL pH METER MODEL LT-	LABOTRONIC	****	1
	11	S		
5	COMPACTOR 2000+	LOVIBOND	****	1
6	MAGNETIC STIRRER	ELICO	****	1
7	WEIGHING M/C	SANA	100G-100KG	1
8	INCUBATOR	SYNCHRONY	****	1
9	OVEN	HASTHAS	****	1
10	WATER ANALYSIS MULTIMETER	MULTI 340i	****	1
	KIT			
11	SPECTROPHOTOMETER	VISISCAN167	****	1
12	DISSOLVED OXYGEN METER	ELICO	****	1
13	DIGITAL BALANCE	SHIMADZU	0-220 GM	1
14	DIGITAL PH METER	DIGISUN	****	1
		ELOCTONICS		
15	NOISE SAMPLER	CENTER	****	1
16	RESPIRABLE DUST SAMPLER	ENVIROTECH	****	1

LIST OF ANNEXURES

Sl.	Matter Concerned therewith	Annexure No.
No.		
1	Monitoring Performa duly filled in	Annexure -I
2	Salient Features of the Project	Annexure-I A
3	Environment Management Plan	Annexure-I-B
4	Brief Status of Construction	Annexure-II
5	Particulars on Green Belt/Plantation	Annexure-III
6	Constitution of Environmental Monitoring	Annexure-IV
	Cell and list of instruments on	
	Environmental Monitoring Cell	