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

25th January, 2012

The Chief Conservator of Forests Ministry of Environment and Forests Government of India, Eastern Regional Office A/3, Chandrasekharpur Bhubaneswar – 751023

- Sub: Half Yearly Compliance Report of Dhamra Port Expansion Project at Village Dosinga, Chandbali Tehsil, Bhadrak District of Odisha
- Ref: Letter No. PD/26017/8/98-PDZ (CRZ) Dated 4th January, 2000 of Govt. of India, Ministry of Surface Transport (MoST)

Dear Sir,

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

Thanking you,

Yours Sincerely

(Santosh K Mohapatra)

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	April to September, 2011		

Conditions & Compliance of Environment Clearance

Si.	Environment Clearance Conditions	Compliances	
No.			
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. Ground water should not be tapped for	All drawing and designs have the approval of the State Government of Odisha, vide letter no No. DPP-4/07.1331/Com dtd 19.2.2007 and Memo no 1153/Com. Dtd 14.2.2007 of Commerce & Transport Dept. Ground water is not drawn for	
	construction activities as the drawl of ground water for industrial use from the CRZ area is a prohibited activity.	constructional activities. DPCL uses water drawn from Matai river & stored in its reservoir both for construction & operational purpose.	
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.	The facilities such as water supply, fuel, sanitation etc. for laborers have been provided by all firms engaged for construction & operation facility in the port.	
iii)	Dredging operations if any, should be undertaken in consultation with either 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	NIO, Goa was engaged to study the impact of dredging operations & advise the company accordingly. The dredging has been executed under the expert guidance of IUCN to ensure conservation of marine life. The IMMT, Bhubaneswar has been monitoring the air, water and biological parameters both in marine & terrestrial environment regularly.	

	life.	
iv)	Disposal sites for excavated material should be so designed that the revised land use after dumping and changes in the land use pattern do no interfere with the natural drainage.	DPCL has ensured that the change in land use pattern do not interfere in the natural drainage. The natural drainage, existing earlier has been maintained.
v)	To meet with any emergency situation, adequate foam containers should be kept ready with supporting fire fighting system and water pipeline.	DPCL has prepared & implemented the Disaster Management Plan, Health and Safety Management Plan & firefighting 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 trained in implementation of the Crisis Management Plan already drawn by the authorities. Mock Drill(s) for this purpose should be conducted on a regular basis. Provisions of Dock Safety Act and the Guidelines issued by the DG, FASLI/CLI, Mumbai for the safety and health of the workers should be followed.	The employees of DPCL have been trained on safety guidelines. Regular Mock Drills are conducted as per the Crisis Management plans. The Drill & Safety Performance Report is monitored by the EHS Department. The said reports for the period from July to November are enclosed in Annexure VI.
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	A large nursery of multipurpose species has been established for raising quality planting material for the green belt. Green belt has been developed in the port site & along the 62 km Railway corridor. Strip plantation on both the edges of railway corridor has been taken up & 1, 60,000 plants have been planted along the north & south edges of the corridor. Plantation of suitable species has been taken up in and around the port bulb and admin/Residential area with effect from 2010 & is continuing. So far 1, 00,000 plants suitable for the site have been planted. Details regarding plant species & cost have been furnished at Annexure-III A.
		Necessary permission for felling of 267 miscellaneous trees has been obtained

		from the competent
		from the competent authority from the
		forest department & handed over to Odisha
		Forest development Corporation for felling
		& disposal.
viii)	To prevent discharge of sewage and	DPCL has installed a sewage treatment
	other liquid wastes including ballast	plant to handle 140 KLD of sewage per
	into marine environment, adequate	day. DPCL's sewage treatment/waste
	system for collection, treatment and	disposal system is in accordance to the
	disposal of liquid wastes must be	prescribed discharge standards. For
	provided to the satisfaction of the	treatment & disposal of liquid waste &
	Odisha Pollution Control Board,	ballast authorized agencies have been
	Bhubaneswar	engaged by DPCL.
ix)	Adequate noise control must be	This has been followed at the work sites
	provided to noise levels at various work	both on shore and off shore. Noise
	places within the standard prescribed	monitoring at site is being done by IMMT.
	<i>by the competent authorities. If need be,</i>	
	ear plugs and ear muffs should be	
	provided to the workers in the project	
	area	
x)	The quality of treated effluents, solid	DPCL's sewage treatment /waste disposal
)	wastes and emissions must confirm to	system is confirming to the standards laid
	the standards laid down by the	down by Odisha State Pollution Control
	competent authority including State	Board (OSPCB)
	Pollution Control Board, Govt. of	
	Odisha, Bhubaneswar	
		Environment Cell has been constituted
xi)	An Environmental Cell should be set up	
	immediately and made operational with	consisting of an EHS Manager, Asst.
	adequate laboratory facilities,	Manager, Junior manager, 5 other
	equipments and a mobile van for	Chemists & Operators. DPCL is having a
	collecting air samples. The record and	Full fledged Laboratory Facility with all
	data should be submitted with proper	required instruments for regular
	analysis and corrective measures	environmental monitoring. The order
	required, if any, for maintaining the	constituting the Environmental Monitoring
	levels within the prescribed limits to the	Cell & list of instruments installed is
	Eastern Regional Office, Ministry of	enclosed at Annexure – IV.
	Environment & Forests, Govt of India,	
	Bhubaneswar. The Environment Cell	The CSIR body, IMMT Bhubaneswar is
	should coordinate and monitor	regularly conducting environmental
	environmental mitigative measures	monitoring for the project.
	executed in the project area. The	
	Project Proponent is advised to	

	institutionalize their Environmental Monitoring through some recognized Scientific Institution for the project.		
xii)	Necessary leakage detection devices with early warning system must be provided at strategic locations	Leakage detection devices with early warning system have been provided at all strategic locations.	
xiii)	Standby DG sets must be provided to ensure uninterrupted power supply (to) the pump house and the fire fighting system	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 system	
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 reports are regularly submitted to the Eastern Regional Office of the MoEF, Bhubaneswar.	
xv)	Full support should be extended to the Eastern Regional Office, Ministry of Environment & Forests, Govt of India, Bhubaneswar during inspection of the project for monitoring purposes by the project proponents by furnishing full details and action plans including action taken report on mitigative measures.	Full support is always extended to the Eastern Regional Office, Ministry of Environment & Forests, Bhubaneswar for the inspection of the Project. All the details and ATR are submitted as and when required by the Ministry.	
xvi)	Adequate funding provisions, year-wise and item-wise, must be made for implementation of the above mentioned safeguard measures.	Adequate funding has been provided for the implementation of all safeguard measures. The actual expenditure incurred on the project so far is INR 3276 Cr. Out of this INR 38.99 Cr has been expended for implementing environmental management Plan from Yr 2008-11. 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.

<u>Conditions & Compliance of National Environment</u> Appellate Authority Judgement of the year 2000

11ppc	ppenate Authority suggement of the year 2000				
Sl.	Conditions of the National	Compliances			
No.	Environment Appellate Authority				
	Judgement of the year 2000				
1)	Mangrove patch of 200 plants, to be	The area is excluded from any project activity			
	excluded from the project area,	and fenced for conservation of the Mangrove.			
	fencing & maintenance to be done by				
	project proponent				
2)	Constitution of Environment	Constituted by the State Government on 14 th			
	Monitoring Committee	January 2008.			

Annexure-I

Ministry of Environment & Forests Regional Office BHUBANESWAR Monitoring Report <u>Part-I</u>

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)	: Bhadrak
	b) State(s)	: Odisha
	c) Latitude/Longitudes	: Lat $20^{\circ} 48'$ N to $20^{\circ} 52'$ 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) & Port
	& telephone/telex/fax numbers)	: Conservator, Village Dosinga, Dhamra
6.	Salient Features:	
	a. of the project	:Enclosed as Annexure-I-A
	b. of the environmental management plan	:Enclosed as Annexure-I-B

7.	Break up of the Project areas:		
	a Submergence area (forest & non-for	est) : Not Applicable	
	b. Others.	: Port Area- 300.	12 Ha
		Rail Road Corr	idor- 906.1 Ha
	Total Area allotted and occupied	= 1206.22 Ha	
8.			
	Break up of Project affected population,	a) Losing House – 18	31 families
	with enumeration of those losing	b) Total rehabilitated	– 177 families
	houses/dwelling units only,	c) Compensation paid	d – Rs. 8.57 crores
	agricultural land and land less	ii) Rural Artisans – N	lot Applicable
	labourers/artisans (Port Area)	iii) Land Less Labour	rs- Not Applicable
	a. SC, ST/Adivasis :	SC - 6 families, ST/ Ad	divasi: 0
	b. Others :	General Category: 175	families
9. <u>1</u>	Financial Details	: Year	Project cost
			(In INR Crores)
á	a. Project cost as originally	1998	1197.43
	Planned and subsequent revised	2003	1520
	Estimates and the years of	as on date	3239
	Price reference		

Allocation of funds in Crores (Rs.)

	Total	3239.00
11.	Phase II of the Project	304.00
10.	Interest During Construction	298.00
9.	Contingency	147.00
8.	Preoperative Expenses	135.00
7.	Margin Money	5.00
6.	Miscellaneous Fixed Assets & ERP	17.00
5.	Railway Locos	2.00
4.	Navigational Aids	10.00
3.	Dredging & Reclamation	726.00
2.	Construction Contract	1497.00
1.	Advance to GoO for Land Acquisition	98.00

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

Si.		2008-09	2009-10	2010-11	
No.	Item	(Crores)	(Crores)	(Crores)	Total
1	Monitoring of Environment Parameters by				
	IMMT	0.125	0.375	0.55	1.05
2	IUCN	1.3	1.28	1.28	3.86
3	Water Treatment Plant	18.6	18.6	9.3	46.5
4	Shoreline Changes Study by NIO and others	20.74	20.74	20.74	62.22
5	Water Drainage Management	1.5	1.5	1.5	4.5
6	Environment Awareness & Outreach Program	mes	0.065	0.065	0.13
7	Demarcation of Gahirmatha Marine				
	Sanctuary		0.24		0.24
8	Providing Trawler to Forest Dept for				
	Patrolling		0.07	0.07	0.14

Total = INR 118.64 Cr

c. Benefit cost ratio/internal rate of return and the year of assessment

of environmental management as shown

: IRR—19.45% 2009-2010

d. Whether (c) includes the cost

in (b) above.

: YES

e. Actual expenditure incurred on the project so far : INR 3276 Cr.

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

SI.					
No.	Item	2008-09	2009-10	2010-11	Total
1	WTP & Drainage Management	9.46	9.46	9.46	28.39
2	IUCN Fees	0.65	1.82	1.17	3.64
3	Plantation	1.10	1.10	1.86	4.07
4	Monitoring of Environment Parameters by IMMT	0.13	0.38	0.25	0.75
	Establishment & Functioning of Environment				
5	Laboratory		0.04	0.04	0.08
6	Turtle Awareness outreach programmes	0.05	0.05	0.05	0.15
7	Trawler to Forest Dept for Patrolling (including fuel)		0.125		0.125
8	Preventive Measures During Dredging	0.12	0.12	0.12	0.35
9	Installation of 140 KLD STP		0.175	0.175	0.35
10	Fire Tenders & Fire Fighting System		0.0315	0.0315	0.063
11	Demarcation of Gahirmatha Marine Sanctuary		0.09	0.09	0.177
12	Statutory Fees deposited to SPCB			0.10	0.101
	Additional Studies				0
13	NIO Shoreline Changes Study		0.22		0.22
14	NIO Study on Dredging Impacts		0.21		0.21
15	NIO Study on Hydrodynamic & CRZ Demarcation			0.30	0.3
16	Mangrove Mapping		0.02		0.02
	Total	11.51	13.84	13.64	38.99

Total

= INR 38.99 Cr

10. Forest land requirement

The application submitted has been withdrawn as currently Forest land is excluded from the Port area. The details are enclosed at Annexure-VI

11. 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.

:

- 12. <u>Status of construction</u>:a. Date of commencement (actual)b. Date of completion (actual)
- 13. Reasons for the delay if the project is yet to start.
- : Commencement in 2002.
- : Commencement of Operation 06.05.2011
- : Not Applicable.

Annexure-I-A

The Dhamra Port company Limited, which is 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 capesize vessels of 1, 80,000 DWT for handling bulk cargo.
- Dolphin type jetty into Sea thereby leaving the natural slope & tide undisturbed.
- In the first phase 2 berths have been constructed.
- 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

- 1. Land Management
- 2. Wildlife Management
- 3. Air Management
- 4. Water Management
- 5. Noise Management
- 6. Light Management
- 7. Miscellaneous

1. LAND MANAGEMENT

ITEM	ACTION	STATUS
1. Plantation	 Create Green Belt (Conditions vii. of Env Clearance). 	1. Strip Plantations of 1, 60,000 trees has been carried out along the railroad corridor. More than 1, 00,000 trees planted this year in the Port bulb. Nursery established at site for plantation of the Green Belt.
	 Permission from concerned authorities for cutting of trees. (Condition vii of environment clearance. Patch of about 200 mangroves located closer to port area be excluded and be fenced and maintained. (judgment of NEAA) 	 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. The area has been excluded from any Project activity and fenced for conservation of the Mangroves.
changes in Land Use	1. Changes in the Land use pattern after reclamation should not interfere with the natural drainage. (condition iv. of environment clearance)	 Adequate measures taken to retain natural drainage. Hume pipes, culverts and bridges provided all along rail embankment in consultation with Dept of Water Resources & The Directorate of Water Management (<i>formerly WTCER</i>) to ensure that the rail embankment does not obstruct natural drainage. Berths are on dolphin type jetty on the sea thereby allowing natural flow of the tides & creeks.

2. WILDLIFE MANAGEMENT

ITEM	ACTION	STATUS
impact on wildlife.	 Monitoring of Water quality by authorized institution to ensure that it doesn't affect marine productivity (condition iii. of environment clearance) 	1. Regional Research Laboratory of CSIR (now rechristened as IMMT) has been assigned the monitoring. Additionally NIO, Goa had been engaged to study the impact of dredging operations.
	-	 Deflectors have been fitted in all Trailer Hopper Suction Dredgers as per design and under guidance of IUCN scientists and engineers.
-	 All lights should be dark sky friendly and should not create glare (recommendation of IUCN) 	1. DPCL's light management protocol has been developed and implemented under the guidance of IUCN
	 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. On 14-15 th November 2010, IUCN–DPCL together with the collaboration with Forest Department, Odisha organized two days workshop on "Workshop on Fisherman Awareness and Use of Turtle Excluder Device" at Talchua, Bhitarkanika, Odisha that covered the various aspects of fisherman awareness such as interaction with fisherman, sustainable fishing, theoretical and practical aspects of TED, TED demonstration & trials.

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 Mantai (10 km away) and stored in an open reservoir outside the CRZ area of capacity 6.7 lakh cum, 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. Regional Research Laboratory of GOI (now renamed as IMMT, <u>www.immt.res.in</u>) has been monitoring the water quality. Their reports are furnished with the half yearly reports submitted to the ER office of the MoEF.
3. Effluent	 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 is installed and operational. The treated water from STP is being used for horticultural purpose.
4. Ballast	 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.

4. AIR MANAGEMENT

ITEM	ACTION	STATUS	
1.Dust Suppression	1. Adequate dust suppression systems in the material handling to minimize emission. (Condition 8. of OPCB consent)	 The material handling is fully mechanized and through covered conveyer belts to reduce dusts. Water sprinklers 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 & around port bulb also acts as sink of pollutant. 	
	1 0		
	port premises to confirm to standards prescribed under EP rules 1986. Port to install three air monitoring stations.	*	
2.Green Belt plantation		 More than 1 Lakh plants have been planted inside the port area surrounding the BMH bulb. The plantation activity 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.
	may be so designed that they	
	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 r		monitored at all the sources and ambient noise levels	
	standards.(Condition ix. of environment clearance)	are not exceeding the prescribed limit. Community noise levels are not likely to be affected because of the Green Belt and attenuation due to physical barriers.	

6. MISCELLANEOUS

ITEM	ACTION	STATUS
design	 Design drawings to be approved by concerned Government authorities. (Condition i.e. of environment clearance) 	1. Approvals obtained from the Government of Odisha.
labour		1. Required infrastructure facilities have been provided for labourers at the project site.
3.Crisis 1. Fire fighting system to be provided (condition v of environment clearance) 1. Fire fighting system fire tenders.		1. Fire fighting system has been installed with two 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)	2. Necessary training has been imparted to the staff. (DMP, HSE MP, Oil spill plan previously submitted).
	with early warning system at	3. Not necessary at this stage as liquid cargo is not being planned for the first phase. It shall be installed whenever and wherever necessary.
	5	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 system
	1. Environment cell to be set up and made operational	1. Environment Cell has been constituted consisting of an EHS Manager, Asst. Manager, Junior manager,

	with laboratory facilities	5 other Chemists & Operators. DPCL is having a Full
	through recognized scientific	fledged Laboratory Facility with all required
	institution (condition xi of	instruments for regular environmental monitoring.
	environment clearance)	Further details are furnished in Annexure – IV.
5.Reporting,	1. Half Yearly report to be	1. Half yearly reports are submitted to the Eastern
Monitoring &	sent to Eastern Regional	Regional office of MoEF on regular basis.
Funding	Office of MOEF who should	
	be given full cooperation and	
	information. (conditions xiv	
	and xv of environment	
	clearance)	
	2. A Monitoring Committee	2. Monitoring Committee with representation
	be constituted during	of Beach Protection Council has been
	construction and operation in	constituted by the Government of Odisha and is
	which a representative of	Regularly monitoring the project.
	Beach Protection Council be	
	included. (condition of	
	NEAA in their judgement)	
	3. Adequate funding be	3. Adequate funding has been provided.
	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	Expected month & year of completion
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, KHARVELANAGAR, BHUBANESWAR – 751 001

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

1.	a) Name of the Organization:	Dhamra Port Company Limited.	
	b) Envt. /Forest clearance Order Nos.:	PD/26017/8/98-PDZ (Dated 04.01.2000	(CRZ)
2.	Location: Block/sub. Divn./Dist/ State:	Dhamra/ Bhadrak/ Odisha	
3.	Address for Communication:	The Dhamra Port Con 2 nd floor, Fortune Tow Chandrasekharpur, Bh	ver, nubaneswar 751023.
4.	Existing Vegetation in the area/	0674-2303829, fax-06	574-2303828
	Region:		
	a) Species (tree/shrubs/grasses/	1) Amaranthus spinos	US
	Climbers):	2) Croton bonplandia	nus
		3) Cynodon dactylon	
		4) Cyperus rotundus	
		5) Acanthus ilicifoliu.	S
		6) Caesalpina crista	
		7) Suaeda maritima	
	b) Major prevalent species of	1) Cynodon dactylon	
	each type (grasses)	2) Suaeda maritima	
5.	Land coverage by the Project:		
5.	Land coverage by the Hoject.	Submitted for	First phase of
		Env. Clearance	development
	a) Total area under the project:b) Area covered for basic infra-	4300 acres	3212 acres 2970 acres

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

6. Details about natural vegetation:

	a) Name and number of tree/ Species felled.	: With prior permission from re 267 trees have been felt down f on approach load & OFDC felling.	from non-forest land		
	b) Name and number of plant Species still available in the area	 1) Acanthus ilicifolius 2) Croton bonplandianus 3) Cynodon dactylon 4) Suaeda maritima 	Not enumerated since mostly herbs, and grasses		
	c) By protecting the area will indigenous stock come up ?	: Affirmative (indigenous sp are naturally in areas protected)	coming up		
	d) Extent of green belt developed	: In Progress, plantation is con Nursery developed at the port :	°		
7.	Plantation required to be carried \ou a) Conditions of Environmental Clearance in hs./nos	It as per : Green belt of 50 mts width @2 per Hectare	000 – 2500		
	b) Conditions of Forest (Conservati	on			
) Act. Clearance in ha./nos.	: Not Applicable at present			
	c) Voluntarily in ha/nos.	: All the details are enclosed a	t Annexure III A		
8.	Details about plantation	:			
i) Gre	a) Total area available for Plantation in each category: een Belt ii) Dumps iii) Back fille	d areas iv) Road sides V) Block	plantation		
Green	Green Belt (port site) -87 Acres (approx),				
-	Dumps and Back filled area not available				
	Railway Corridor -306 Acres (approx plantation (Township) -5 Acres (app				
DIUCK	block plantation (Township) 5 Meles (approx)				

b) Plantation details (Category wise & methodology used)

1) Railway Corridor plantation

Year of Plantation	Species planted	spacing	Height Attained	Total Area cover	ed	Area Still available	
	Detc	uiled are enclos	ed at Annexur	re – III A			
c) Survival	% of plantation	1 st year	-	3 rd year	4 th year	5 th year	
-Total plantation (No.) - 2, 60,000 trees - Survival % - 100% - Strip plantations of 1, 60,000 plants have been undertaken a the rail road corridor. This is in addition to 1, 00,000 plants are planted in Port site further plantation is also in progress in the current plantation season.						undertaken along	
	 D9. Financial details (year-wise) Plantation wise and item wise : <i>Detailed are enclosed at Annexure – III A</i> 					ΊΑ	
Sl. Year No.	I I I I I I I I I I I I I I I I I I I				Average cost of each surviving Plant in Rs.		
Detailed are enclosed at Annexure-I & Annexure – III A							
field experts	10. Inspection of plantation by field experts and their comments and follow up action.Suggestions by Director (S), MoEF (Eastern Regional Office) during site visit of $17^{th} - 18$ '09 are incorporated.						

11. Remarks / any other information : Not Applicable

Signature of Office Incharge

<u>Annexure – III A</u> <u>Plantation:</u>

a) Green Belt along Railway Corridor:

Strip plantation on both the edges of the railway corridor has been taken up and 1, 60,000 plants have been planted along the north and the south edges of the corridor.

i) Specifications:

The plantation has been carried out in the northern edge (60 km x 1 m) and southern edge (60 km x 3.5m) of the corridor. Both quick growing and slow growing species has been planted Species planted in 2008 & 2009 are:

Quick Growing	Slow Growing
Pithecellobium dulce	Ficus religiosa
Terminalia catappa	Terminalia arjuna
Acacia auriculiformis	Albizzia lebbek
Acacia mangium	Thespesia sp.
Delonix regia	Syzigium cumini
Peltoforum ferrugenium	Azadirachta indica
Bambusa sp.	Dalbergia sissoo
Hedge Plantation	Calophyllum inophyllum
Bamboosa sp.	
Lawsonia inermis	

b) Greenbelt at port site, plantation of suitable species has been taken up in and around the port bulb and admin/Residential area with effect from 2010 and is continuing. So far 1, 00,000 plants suitable for the site have been planted.

Financial Details- Amount Allocated for Plantation along the rail -road corridor

S. No.	Description	Amount (Rs. in Crores)
1	Strip Plantation along the rail road corridor	4.17
2	Green Belt at the port site	2.29
	Total	6.46

Total money spent till date = INR 3.68 crores.

<u>Annexure-IV</u> <u>Constitution of Environmental Monitoring Cell</u>

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 : cco@dhamraport.com Website : www.dhamraport.com

Santosh K. Mohapatra, IAS (Retd)

CEO

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

Date : November 3, 2011 Ref : DPCL / Env - 03/ 02 / 11

Dear Sir,

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

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. Sc (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
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	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				

Annexure V

Drill Report of DPCL							
Month July August September October November						· Cumulative	
Essentials							
No. of tool box meeting conducted	26	34	29	42	38	169	
No. of Fire Drill conducted	4	3	2	6	5	20	
No. of Mock Drill conducted	3	2	2	0	1	8	
No. of HSE training program conducted for workmen and staff	4	1	3	0	1	9	
No. of HSE CSR program conducted at site/near by locations	0	2	0	3	4	9	
No. of Labour welfare Activities conducted	0	0	2	3	2	7	
Total man-hours worked	118590	125887	109234	106776	87341	544828	
No. of CO ₂ fire extinguishers placed at site 3						3	
No. of Foam type fire	No. of Foam type fire extinguishers placed at site 2 (45 litres)					2 (45 litres)	
No. of Powder type (DCP) fire extinguishers placed at site 50						50	

Safety Performance Report (L & T)							
Month	July' 11	Aug' 11	Sep' 11	Oct' 11	Nov' 11	Dec' 11	Cumulative
Essentials							
No. of tool box meeting conducted	25	24	25	25	25	26	150
No. of Fire Drill conducted	1	1	1	1	1	1	6
No. of Mock Drill conducted	1	1	1	1	1	1	6
No. of HSE training program conducted for workmen and staff	6	7	5	6	4	5	33
No. of HSE CSR program conducted at site/near by locations							0
No. of Labour welfare Activities conducted	3	2	3	3	3	3	17
Total man-hours worked	155192	165812	185112	192720	183968	163500	1046304
No. of CO ₂ fire extinguishers placed at site							7
No. of Foam type fire extinguishers placed at site						6	
No. of Powder type (DCP) fire extinguishers placed at site						26	

Annexure-VI

NOTE ON WITHDRAWAL OF FOREST DIVERSION PROPOSAL

The land allotted by Govt. of Odisha for expansion of Dhamra Port Project doesn't include any Forest Area. While starting the construction of boundary wall around the port bulb in 2009, it was noticed that there are certain small & scattered village Forest Plots exist adjacent to the periphery of the Port Project Area. To have a straight boundary wall it was proposed to acquire these Forest kissam plots measuring 20.169 Ha in adjoining four villages.

Accordingly application for Diversion of the Forest Land was submitted by DPCL to the Chief Conservator of Forest Nodal, Odisha on 8th June 2009. The application was forwarded to Divisional Forest Officer, Bhadrak Wildlife Division by the Chief Conservator of Forest Nodal on 23rd June 2009. But the process of identification of Non-Forest land and Certificates under Forest Right Act was delayed.

Since the port has become operational & it is necessary to complete construction of boundary wall, it was decided to withdraw the application of Diversion of Forest land & construct the boundary wall without including the patches of village Forest Land.

Accordingly DPCL has intimated the concerned Authority on 9th January 2012 regarding withdrawal of the application.

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 under	Annexure-III
	Forest (Conservation) Act 1980	
6	Plantation details (Plant specifications &	Annexure – III A
	Financial Details)	
7	Constitution of Environmental Monitoring	Annexure IV
	Cell & Instrument List for Environmental	
	Monitoring	
8	Drill and Safety Performance Report	Annexure-V
9	Note on withdrawal of Forest Diversion	Annexure-VI
	Proposal	