

Subject : Development of Outer Harbour, Inner Harbour including Western Dock & Mechanization of existing Operational berths by M/s Paradip Port Trust, Odisha

1. The State Government of Orissa vide their letter no. **10F (Conse)150/2018/22977 F&E** and date **30.10.2018** submitted the above mentioned proposal to obtain prior approval of central Government, in accordance with Section-2 of the Forest(Conservation)Act,1980.

2. Details indicated in the proposal submitted by the Government of Orissa are as below

FACT SHEET

1.	Project Details		
(i)	Proposal No	FP/OR/Others/26300/2017	
(ii)	Name of the Proposal	Development of Outer Harbour, Inner Harbour including Western Dock & Mechanization of existing Operational berths by M/s Paradip Port Trust, Odisha	
(iii)	Short Narrative of the proposal and Project/scheme for which the forest land is Required	The expansion, modernization of Paradip Port in comparative for handling cape size vessels and mechanization of age old manually operated berths are proposed with an objective of increasing the present cargo handling capacity of 93.6 MTPA to 173.6 MTPA.	
(iv)	Category	Others	
(v)	Total Area of the Forest Land (in ha.):	75.635	
(vi)	Total period for which the forest land is proposed to be diverted(in years)	99	
2.	Location:		
(i)	State	Orissa	
(ii)	District	Jagatsinghapur	
3.	Detail of user agency		
(i)	Name of the user agency	PARADIP PORT TRUST	
(ii)	Shape of forest land proposed to be diverted	Hybrid	
(iii)	Legal status of User Agency	Central Government	
4. Legal status of forest land proposed for diversion			
S. No.	Division	Forest Land(ha.)	Legal Status
1	Rajnagar WL	75.635	Revenue Forest
5. Land use plan			
Component wise breakup			
S.no	Component	Forest Land(ha.)	Non-Forest Land(ha.)

1	Transport Corridor for Outer harbour.	21.385	1
2	Stack Yard	54.25	22.9

6. Vegetation

(i) Species-wise and diameter class wise enumeration of trees

S. No.	Scientific Name	Local Name	(0-30)cm.	(31-60)cm.	(61-90)cm.	(91-120)cm.	(121-150)cm.	(>150)cm.
1	Dalbergia sisoo	Sisoo	1	0	0	0	0	0
2	Michelia champaca	Champak	3	0	0	0	0	0
3	Tectona grandis	Teak	0	4	2	0	0	0
4	Syzygium cumini	Jamu	0	22	11	4	0	3
5	Mangifera Indica	Mango	0	28	19	12	1	0
6	Acacia auriculaeformis	Acacia	0	974	485	79	10	1
7	Alstonia Scholaris	Chhatiana	0	60	39	13	5	0
8	Terminalia arjuna	Arjuna	0	16	4	3	3	0
9	Eucalyptus	Eucalyptus	0	47	70	26	5	0
10	Casurina Equisitifolia	Jhaun	0	288	204	43	1	2
11	Terminalia Catappa	Badam	0	47	17	3	1	0
12	Lagerstroemia Parviflora	Patuli	0	154	58	34	0	0
13	Azadirachta indica	Nima	0	39	15	1	4	2
14	Melia Azadirachta	Maha Nim	0	1	0	0	1	0
15	Zizyphus Jujuba	Barakoli	0	11	1	1	0	0
16	Ficus Bengalensis	Bara	0	26	11	11	3	7
17	Couroupita Guianensis	Coconut	0	1	15	36	7	4
18	Artocarpus Heterophyllus	Panasa	0	0	1	1	1	0
19	Aegle marmelos	Bela	0	2	1	0	0	0
20	Ficus religiosa	Osta	0	56	13	15	5	5
21	Peltoform Pterocarpum	Radha Chuda	0	297	151	51	11	4
22	Mimusops Elengi	Baula	0	8	1	0	6	0
23	Samania Saman	Chakunda	0	30	64	48	12	4
24	Borassus flabellifer	Palm	0	6	2	2	4	0
25	Erythrina Indica	Paldhua	0	1	0	0	0	0
26	Ficus religiosa	Dimiri	0	5	5	0	0	0
27	Tamarindus indica	Tentuli	0	0	0	1	0	0
28	Anthocephalus cadamba	Kadamba	0	1	2	0	0	0
29	Polyainthia Longifolia	Debadaru	0	19	3	1	0	0
30	Anacardium Occidentale	Kaju	0	2	0	0	0	0

31	Phunsey Bantey	Bilatikayan	0	254	83	33	6	0
32	Pongamia pinnata	Karanja	0	32	6	1	4	0
33	Cassia fistula	Sunari	0	2	4	0	0	0
34	Phoebe Attenuata Nees.	Khajuri	0	0	1	2	0	0
35	Artocarpus Hirsuta	Gua	0	2	1	0	0	0
36	Bombax ceiba	Simili	0	0	1	0	0	0
(ii)	Density of Vegetation	40						
(iii)	Eco Class	Eco 3						
(iv)	Total numbers of trees to be filled	4272						
(v)	Total Tree to be retained .	Less than 60(in cm.) : 2439 Greater than 60(in cm.): 1833						
7.	Vulnerability of area to soil erosion	Area is flat (54.385 hectares) in Patch-I and slightly undulating (21.250 hectares) in Patch-II within the port limit and hence stable soil						
8.	Approximate distance of proposed site for diversion from boundry of forest (in Km.)	06						
9.	Significance of the forest land proposed for diversion from wildlife point of view							
(i)	Details of wildlife present in and around the forest land proposed for diversion	The area applied for diversion does not form part of any Protected area. Amongst avifauna, the important species are Open Bill Storks,Doves,Egrets, Herons and Cormorants etc. The Mammals seen are Jungle Cat and monitor Lizards represent reptilian fauna						
(ii)	Whether forms part of national park, wildlife sanctuary, biosphere reserve,tiger reserve, elephant corridor, wildlife migration corridor etc.	No						
(iii)	Whether the forest land proposed for diversion is located within eco-sensitive zone(ESZ) of the Protected Area notified under Wildlife(Protection) Act,1972 (Note: In case, ESZ of a Protected Area is not notified,then,10kms distance from boundary of the Protected Area should be treated as ESZ)::	No						
(iv)	Whether any national park, wildlife sanctuary, biosphere	No						

	reserve, tiger reserve, elephant corridor, wildlife migration corridor etc., is located within 1 Km. from boundary of the forest land proposed for diversion :	
(v)	Whether any rare/endangered/unique species of flora and fauna found in the area :	No
10.	Whether any protected archaeological/ heritage site/ defence establishment or any other important monument is located in the area. if so, the details thereof with NOC from competent authority, ifrequired.	No
11.	Whether the requirement of forest land as proposed by the User Agency is unavoidable and bare minimum for the project.if no,recommended area item-wise with detailes of alternatives examined.	yes- pg.55/c
12.	Whether any work in violation of the Act has been carried out(yes/No).if yes,details of the same including of the work done,action taken on erring officials. Whether work in violation is still under progress.	No
13.	Details of compensatory afforestation scheme	
(i)	Patch wise details of non-forest or Revenue forest land to be provided by User Agency for CA	
	No Data	
(ii)	Patch wise details for Degraded Area (To be earmarked by DFO)	

Patch Wise Details					
S.no	Patch No.	Area(ha.)	Name of PF/RF	Range	Compartment No
NO Data					
(iii)	Total Financial Outlay for C.A(lacs):	13708527.00			
(iv)	Whether the land identified by User Agency is suitable for CA and from managementpoint of view:	No Data			
14.	Documentary evidence in support of settlement of rights in accordance with the provisions of the scheduled Tribes and other Traditional Forest Dwellers(Recognition of forest Rights) Act,2006 on the forest land proposed to be diverted enclosed.	FRA is given but not in accordance with ministry guidelines dated 3 08 2009 read with 05 07 2013			
15.	Whether the project requires environment Clearance	(a). Status of the Environmental Clearance to the Project: EC under process (ii). Environmental Clearance File No.: NIL			
16.	Catchment Area Treatment Plan	-			
17.	Rehabilitaion of Outstee				
(i)	Number of SC Families	0			
(ii)	Number of ST Families	0			
(iii)	Number of Backword Families	0			
(iv)	Copies of R&R Plan	-			
18.	Cost Benefit Analysis	Cost benefit Ratio = 1:78.09 (pg. 56-58/c)			
19.	Total cost of the project(in crore):	1274380			
20.	Employment Potential	Permanent Employee : 1375 Temporary Employee : 2000 Total Employee : 3375			
21.	Details of Mining lease	No			
22.	Undertaking to bear the cost of CA and NPV	Yes- pg.-72-73/C			
23.District Profile					

S.no	District Name	Geographical area of the district (in ha.)	Forest area of the district (in ha.)	Total forest area diverted since 1980 (in ha.)	No. of Approved Cases	Forest Land including penal C.A. (in ha.)	Progress of compensatory afforestation as on(date)	Forest land (in ha.)	Non-forest land (in ha.)
1	Jagatsinghapur	166800	13280.64	1423.7588	10	223.961	30/07/2018	0	0

24.	Total area proposed for afforested since 1980 -	Degraded forest land -	223.961	Penal CA over Forest land -	0	Non-Forest land -	0	Total-	223.961
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25.	Total area afforested since 1980 -	Degraded forest land -	223.961	Penal CA over Forest land -	0	Non-Forest land -	0	Total-	223.961
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26.Site Inspection Report

Division	Circle	Site Inspection By	Date Of Visit	Brief Details of SIR at DFO
Rajnagar WL	Bhubaneswar	DFO	01/08/2018	This Project is recommended, being a Government of India Public Sector Undertaking and required for capacity expansion through infrastructure development of the port
	Bhubaneswar	CF	03/08/2018	Applied area may be diverted
		Nodal Officer	06/08/2018	Recommended for diversion of 75.635 ha of Revenue Forest Land for Development of Outer Harbour, Inner Harbour including Western Dock & Mechanization of existing Operational Berth by M/s Paradip Port Trust, Odisha for approval under Section-2 of Forest (Conservation) Act, 1980.

27.Recommendation with Specific conditions,(if any)

DFO/CF/PCCF/Nodal Officer

Division	Circle	Recommendation By	Recommendation	Remarks/Conditions
Rajnagar WL	Bhubaneswar	DFO	Recommended	This Project is recommended, being a Government of India Public Sector Undertaking and required for capacity expansion through infrastructure development of the port
	Bhubaneswar	CF	Recommended	Applied area may be diverted
		Nodal Officer	Recommended	Recommended for diversion of 75.635 ha of Revenue Forest Land for Development of Outer Harbour, Inner Harbour including Western Dock & Mechanization of existing Operational Berth by M/s Paradip Port Trust, Odisha for approval under Section-2 of Forest (Conservation) Act, 1980.

28. Specific recommendation of the State Government

State	Recommendation By	Recommendation	Remarks/Conditions
Orissa	State Secretary	Recommended	recommended vide letter no 22977 dated 30.10.2018.

29.	Forwording Letter for Nodal Officer	<p>The Nodal officer mention in para IV that Paradip Port Trust, an organization under Ministry of shipping, GoI since 1965 has proposed to expand/modernize the existing harbor/dock utilizing the forest kissam land officially transferred to them for port work by Government of Odisha vide Revenue Department notification No. 29753/R dated 30.05.1970. These project are intended for enhancement of cargo handling capacity to boost economy of Nation, State and the local area along with employment generation and improvement of environment.</p>
30.	Forwording Letter for State Government	<p><u>The State Govt. in their forwarding letter no. 10F (Cons) /150/2018/22977 dated 30.10.2018 indicated the following details:</u></p> <p>Brief description</p> <p>Paradip Port is one of the twelve major ports in India and is the main gateway for the sea borne trade on the eastern part of the country covering States such as Odisha. Madhya Pradesh Chattisgarh, Jharkhand and Bihar. It is also the nearest deep water port for the entire eastern and north-eastern part of the country. With a natural depth of about 13 meters, the Port is located inside a lagoon which offers all weather berthing facility throughout the year. It is the only major Port in the State of Odisha situated 210 nautical miles south of Kolkata(WB) and 260 nautical miles north of Visakhapatnam(AP) on the east coast on the shore of Bay of Bengal.</p> <p>The foundation stone of the Port was laid by Pandit Jawaharlal Nehru, the 1St Prime Minister of Independent India on 3rd January, 1962. At that this Port was under control of the Government of Odisha. Government of India took over the management of the Port from the State Government on 1st June, 1965. Government of India declared the Paradip Port as the Eighth major Port of India on 18 April, 1966 making it the first major Port on the East Coast commissioned in independent India.</p> <p>Paradip Port is located at Latitude 20 15 55.44" N and Longitude 86 40 34.62" E. This is the second largest Major Port of India and it handled 89.60 MT of cargo during 2016-17. The harbour basin is protected by two breakwaters, viz. south breakwater and north breakwater of approximately 1217 m long and 538 m long respectively. The approach channel, which is approximately 9,800 m long and 300 m wide, is dredged to a depth of 18.7 in CD. The entrance channel is 2,200 m long and 2.40 m wide and 17.1 m CD deep. The Port has a turning circle with a diameter of 520 in. The existing berth facilities at Paradip Port are situated in the east and central docks. The eastern dock has three general cargo berths comprising of one iron ore berth and two coal berths. The central dock has three multipurpose berths including two fertilizer berths. Three offshore Single Point Mooring (SPM) Buoys of IOCL of 37 MTPA are under operation to handle Very Large Crude Carrier (VLCC) up to 3,50,000 DWT size.</p> <p>Paradip Port Trust is proposing to develop Outer Harbour, Inner Harbour including Western Dock and mechanization of existing Operational Berths. Under this expansion, an all-weather, deep-draft and breakwater protected outer harbour on the shoreline south of its southern breakwaters is to be set up to augment its extant Port activities. Mechanization of existing port berths in the Eastern Dock and Central Dock including up-gradation of the back-up stacking areas is also proposed to be taken up. The total back-up harbour area, custom bond is spread over 1000 ha. The capacity (excluding SBM) will be enhanced from 93.6 MTPA to 173.6 MTPA in these existing operational berths. Expansion of Inner</p>

harbour includes construction of western Dock with two berths as part of **Sagarmaia Project** of the Ministry of Shipping, Government of India. GoI, Ministry of Shipping vide their letter PD -26025/31/2017-PD-II dt. 25.7.2017 have approved deepening and optimization of PPT Inner Harbour facilities including construction of Western Dock captive berth(two no.) to handle cape size vessels(Page 11/DP). This developmental activity will be taken up in two phases and the salient features of the proposed project to be taken up in phases are as follows:

Phase I: Inner Harbour

Development Berth

Mechanization:

- i. All types of bulk cargo like Coal, Iron Ore, Lime Stone and Dolomite etc. will be handled.
- ii. Additional capacity by mechanization and debottlenecking efficiency in the Eastern and Central Dock will be 30 MTPA and 20 MTPA respectively. Existing capacity excluding SBM will be 93.6 MTPA and the grand total will be 143.6 MTPA.
- iii. Mechanization components are Ship Loaders/ Un-loaders, Stacker, Reclaimers, Stackercum Reclaimers, Track Hopper/ Tipplers, Rapid wagon loading system, development/ up-gradation of stack yards and other ancillary facilities required for handling cargo.
- iv. Mechanize the manually operated cargo berths by installing equipment and conveyors and up-grading the overall harbour area covering 1000 ha.
- v. Mechanization will facilitate cargo handling in environmentally sustainable way through enclosed conveyors eliminating dust generation

Inner Harbour Expansion including Western Dock:

- i. The emergence and rapid development of industries in Paradips hinterland is driving the need to expedite capacity addition and Cape Size vessels handling at Paradip Port.
- ii. Expansion of Inner harbour including construction of Western Dock with two berths involving additional capital dredging of 8.0 million cum. The capacity creation would be 30 MTPA and the total capacity (excluding SBM) would be 173.6 MTPA.

Phase II: Outer harbour Development

- i. Development proposed over stable, intertidal land. Land is in possession and control of Paradip Port Trust.
- ii. About 40 MTPA cargo throughout in phase I with expansion plan to reach up to 144 MTPA in the year 2036.
- iii. North breakwater approx. 1.2 km and south breakwater approx. 4.2 km.
- iv. Approx. 9 km of dredged, two-way approach channel, about 300 m wide.
- v. About 21.2 Mm³ of capital dredging, about 4.6 Mm³ of maintenance dredging to be suitably disposed at an offshore location.
- vi. Suitable sand by-passing systems.
- vii. Total 15 berths (8 for bulk export, 3 for bulk import and 4 multipurpose berths).

- viii. Associated navigation infrastructure such as Port Control Room/ Tower.
- ix. About 193 ha port backup area created on inter-tidal land by reclamation, comprising mechanized stockpiles, hard stands, covered godowns, silos, bulk tanks and associated covered conveyance systems, dust suppression and fire fighting systems for backup area.
- x. Last mile road (8 km joining the NH-5A road/ highway) and rail (10 km joining the Paradip double electrified BG Railway station on EC Railways) connectivity through RoWs falling within the Port Trust Land.
- xi. Essential utilities such as boundary fencing with security outposts, yard illumination, electrical sub-station, water storage reservoirs and distribution pump houses, storm water drain network, internal roads, sewerage and STPs, automotive workshops, etc.

The emergence and rapid development of industries in Paradips hinterland is driving the need to expedite capacity creation at Paradip Port. Strong industry fundamentals and Governments impetus on creating a favourable regulatory environment would lead to establishment of new units and expansion of existing units in the future. The Paradip port has a location advantage of it being in close proximity to Mahanadi Coal fields and therefore is a port of choice for the coastal movement of coal to the Power Plants located in the southern and western States of India. The port does not have adequate capacity in its existing and planned projects to handle the projected volumes of coal export and therefore there is a need to create additional capacity. As part of the Master Plan prepared for Paradip Port under the Sagarmala assignment, expansion of Paradip Port would be needed so as to enable to handle the projected traffic throughout and also fully loaded cape size vessels.

As has been indicated in Part I of the application, development of Outer Harbour, Inner Harbour including Western Dock & mechanization of existing Operational Berth at Paradip Port require 99.535ha. of land in all including 75.635 ha of Jungle-2 (Revenue forest land) and non-forest area of 23.9 ha in village Sandhakud under Kujang Tehsil of Jagatsinghpur District (Page **No.4/DP**). The authenticated land schedule of total forest and non-forest land involved in the project with status as on 25.10.1980 furnished by Tahasildar, Kujang is enclosed at **Page No.18-20/DP**. Area proposed for diversion is within the total area leased out by the State Government to Paradip Port Trust during 1960s and hence is under possession of the Paradip Port Trust. Details of State Government order in this context is at page page 54-59/DP. There will be no displacement of human habitation in this project. The applied area does not form a part of any National Park/ Wildlife Sanctuary/ Biosphere Reserve/ Tiger Reserve/ Wildlife Corridor. There is no archaeological monument/ heritage site/ defence establishment located in the applied area. As reported, there is no rare/ endangered, unique species of flora and fauna noticed in the forest area proposed for diversion (Page **No.45-47/DP**). The estimated cost of the project is Rs.12743.80 crore (Page No.2/DP). The project will generate regular employment to 1375 persons and temporary employment to 2000 persons (Page No.5/DP).

2. Justification for locating the project in forest area

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Although this project is non-site specific in nature, feasibility and viability of other alternative sites as per provisions of para 2.1(3) of the FC Act guidelines has not been done owing to the fact that land required for construction for this project is very much part of the Port limit. Moreover, it has been indicated by the project proponent that the proposed project "Development of Outer Harbour, Inner Harbour including Western Dock & Mechanization of existing Operational Berths" of Paradip Port Trust are the expansion & modernization of existing harbour & berths. As such the location proposed project is required to be adjacent to the existing one. No other land except the aforesaid adjacent land including forest land is suitable for the purpose. The Divisional Forest Officer, Rajnagar Mangrove division, in part-II of the application form has also indicated that the forest area to be used for the project is barest minimum and unavoidable. As such examining of suitable alternative sites for the project may not be insisted upon.

3. Maps

The User Agency has furnished the following maps, duly authenticated by all concerned.

S. No.	Particulars	Scale	Plate No.
1	DGPS Index map of village Sandhakud showing forest area proposed to be diverted for development of Outer Harbour, Inner Harbour including Western Dock and mechanization of existing Operational Berths	1:6000	Plate-1
2	DGPS surveyed maps of village Sandhakud showing forest area proposed to be diverted for development of Outer Harbour, Inner Harbour including Western Dock and Mechanization of existing Operational Berths	1:3960	Plate-2, 3, 4, 5 & 6
3	Outer Harbour Boundary shown in SolToposheet No. F 45 U 11	1:50,000	Plate-7
4	Geo-referenced map of Compensatory Afforestation land in Daitary DPF	1:50,000	Plate-8

4. Forest Land:

Total land required for development of Outer Harbour, Inner Harbour including Western Dock & mechanization of existing Operational Berth at Paradip Port is 99.535ha. including 75.635 ha of Jungle-2 (Revenue forest land) and non-forest area of 23.9 ha in village Sandhakud under Kujang Tehsil of Jagatsinghpur District.

The break-up of the total land involved in the instant proposal is indicated below.

S. No.	Component	Forest Land (in ha)	Non-forest land (in ha)
1	Expansion of Inner Harbour including Western Dock & Stack Yard	54.250	22.900
2	Rail-cum-Road connectivity (Transport Corridor for outer harbour)	21.385	1.0
Total		75.635	23.900

5. Flora & fauna

As per site inspection report of RCCF, Bhubaneswar Circle and Divisional Forest Officer, Mangrove Forest Division(WL)Rajnagar at Page No-51-53/DP and Page No.48-49/DP respectively, the applied area comes under Northern Tropical Dry Deciduous forest. The said forest land has been put under Eco-value-class-III with canopy density is 0.1. The Patch-I of the applied forest area spreads over 54.385 ha and is sparsely vegetated whereas Patch-II spreads over 21.250 ha which is stocked with planted trees. The forest species comprises of *Dalbergia sissoo* (*Sissoo*), *Michelia champaca* (Champak), *Tectona grandis* (Teak), *Syzygium cuminii* (Black

Berry), *Mangifera indica* (Mango), *Acacia auriculaeformis* (Acacia), *Alstonia scholaris* (Chhatian), *Terminalia arjuna* (Arj una), *Eucalyptus citriodora* (Eucalyptus), *Terminalia catapa* (Pesta-Badam), *Lagerstroemia flosregine* (Patuli), *Azadirachta indica* (Neem), *Melia azadirachta* (Mahaneem), *Zizyphus jujube* (Barakoli), *Ficus benghalensis* (Bara), *Cocos nucifera* (Coconut), *Artocarpus heterophylla* (Jackfruit) etc.

The area applied for diversion does not form part of any Protected Area. Amongst avifauna, the important species are Open Bill Storks, Doves, Egrets, Herons and Cormorants etc. The mammals like Jungle Cat and reptilian fauna like Monitor Lizards are found. Olive Ridley Marine Turtles are found in the sea waters during winter season.

6. Tree enumeration

Tree enumeration has been carried out over the total forest land involved in the project. The species-class wise and girth class abstract of trees enumerated has been furnished at Page No.59A/DP. In all, 4,272 nos. of trees comprising of 2,575 nos. of sound trees and 1,697 nos. of un-sound trees above 30 cm girth have been enumerated in the forest land proposed for diversion. As indicated above, density of vegetation is 0.1.

7. Compensatory afforestation

The proposal involves diversion of 75.635 ha of Revenue forest land. Since, Paradip Port Trust is a Central Government Organisation, degraded forest land twice in extent of forest area to be diverted has been identified for the purpose of compensatory afforestation as per Para 3.2 (IX) of guideline of Forest (Conservation) Act, 1980. As reported that an extent of 180.0 ha of degraded forest land has been identified in Daitary DPF in Sukinda Range of Cuttack Forest Division of Jajpur District. The DFO, Cuttack Forest Division has furnished certificate for land suitability for raising ANR plantation (Page No.141/DP). Further, the said land is a compact patch and free from all sorts of encumbrances and encroachment (Page No.141/DP). The DGPS map of the Compensatory Afforestation land is appended at Page No.154/DP. The KML and Shape file of the Compensatory Afforestation land in CD form is also appended to the DP.

As per MoEF & CC guideline vide Letter No.11-423/2011-FC dated 08.11.2017, 75,635 nos. (75.635 ha X 1000) of seedlings are required to be planted against proposed diversion of 75.635ha. of forest land. A Compensatory afforestation scheme has been prepared by DFO, Cuttack Forest Division for taking up ANR with Gap plantation over 97.0 ha @800 plants per ha with 10 years maintenance along with vegetative fencing and provision of Soil & Moisture Conservation with staggered trenches over entire degraded forest land of 180.0 ha which is enclosed at Page No.139-154/DP. The species selected for plantation under Compensatory Afforestation include *Spondias pinnata* (Ambada), *Einblica officinalis* (Anla), *Terminalia arjuna* (Arjuna), *Terminalia tomentosa* (Asana), *Terminalia belerica* (Bahada), *Ficus benghalensis* (Bara), *Aegal marmelos* (Bela), *Pterocarpus marsupium* (Bija), *Terminalia chebula* (Harida), *Atocarpus heterophyllus* (Jackfruits), *Syzigium cuminii* (Jamun), *Limoniaa acidissima* (Kaitha), *Mangifera indica* (Mango), *Azadirachta*

Indica (Neem), *Albizia lebbbeck* (Siris), *Dalbergia sissoo* (*Sissoo*), *Pongamia pinnata*(*Karanj a*). The Compensatory Afforestation scheme has been technically approved by PCCF, Odisha with a total financial outlay of Rs.1,35,06,500/- only at current wage rate of Rs.224.30/- per manday, which is enclosed at Page No.155/DP which also includes cost of infrastructure.

The User Agency has furnished an undertaking to pay entire amount of Compensatory Afforestation which is enclosed at Page No.38/DP.

8. Environmental clearance

The User Agency has taken steps for obtaining environment clearance for this instant project. The proposal for grant of Terms of Reference (ToR) to the project was considered by the Expert Appraisal Committee (Infra-2) in its 26th meeting held on 14-15 December, 2017 had recommended for grant of ToR and accordingly the MoEF&CC, GoI vide letter F. No.10-620/2017-IA-III dated 30.01.2018 have prescribed revised ToR for this expansion project (**Page No.12-17/DP**).

9. Resettlement & Rehabilitation:

This proposal does not involve any displacement of human habitation. Hence Rehabilitation & Resettlement Plan is not required.

10. Cost : Benefit Analysis

The cost benefit analysis in details is enclosed at Page No.23 -25/DP. The total loss due to proposed forest diversion is Rs.10.34 cr whereas total benefit to the economy due to annual production owing to this project is Rs.807.5 cr.. Hence, the cost benefit ratio of the Project comes to 1:78.09.

11. Violation

As reported by the RCCF, Bhubaneswar and DFO, Mangrove Forest Division (WL) Rajnagar in the Site Inspection Report (Page No.51-59/DP & Page No.48 - 49/DP), no violation pertaining to construction of this instant project has been committed by the User Agency under Forest (Conservation) Act, 1980.

However, the RCCF, Bhubaneswar Circle has indicated in her Site inspection report that 21.385ha. of forest land now proposed for diversion for the purpose of Rail-cum-Road connectivity(Transport corridor) is found to have existing structures of Paradip Port Trust as under.

<u>Pillar No.</u>	Existing Structure
08-09	Truck terminal
11-12	Electric substation
13-14	Petrol Pump
40-41	BSNL Office
42-47	Port Quarter

31-32	Ahaar Kendra
34-35	Police Station
36-37	Bus Stop

Further, the 54.250 ha of forest land proposed for Expansion of Dock Yard and development of Outer harbor, Inner Harbour including Western Dock & mechanization of existing operational berth of Paradip Port Trust is presently used as stack yard of coal and gypsum. In view of such information provided in the Site inspection report, the PCCF, Odisha was asked to furnish exactly what extent of forest land out of 21.385ha. and 54.250ha. has been used for the above purpose and if such use of forest land has been made prior to 25.10.1980. Based on the report of user agency and field reports in this context, the PCCF, Odisha vide his office letter No. 20127 dt. 29.9.2018 has reported the following.

A) Rail cum Road Connectivity (Transport corridor) proposed under the instant project :-21.250ha

The User Agency has reported that in the applied area proposed for diversion for rail cum road connectivity, several structures such as Petrol Pump, BSNL Office, Port Quarters, Police Station, Aahar Kendra, Bus stop etc are existing. The details of the structures to be removed/ dismantled for installing the projects proposed under this proposal and the extent of forest land out of 21.385ha forest land used for above purpose including whether such construction have been made prior to 25.10.1980 or after 25.10.1980 is indicated as Annexure-A attached to the DP.

- (i) **Truck Terminal:** The User Agency has reported that the truck terminal is a vacant land without any structure where trucks are sometimes parked while waiting for entry into Harbour area since operation of the Port i.e. 1966. **The extent of forest area under use is 0.857 ha and has been in use prior to 25.10.1980.**
- (ii) **Electric Sub-station:-** The User Agency has reported that the Electric Sub-station is an old structure constructed during construction of the Port **prior to 1970s**. Subsequently, it was repaired, maintained and renovated. The Electric Sub-station is a very old building and the supporting documents were lost during Super Cyclone of 1999. **The electrical sub-station will be removed and relocated.** The monetary value of the structure is Rs.1.2Crore. **The extent of forest area under use by this structure is 0.0696ha and has been in use prior to 25.10.1980.**
- (iii) **Petrol Pump:** The User Agency has reported that it is a vacant land and no structure fall within the proposed forest land. **The extent of forest area under use is 0.0020ha and has been in use prior to 25.10.1980.**
- (iv) **BSNL Office:** The User Agency has reported that the main building of BSNL office having telephone exchange and the other important branch **is outside the limit of proposed forest land** and will be retained but the annexed building shall be removed and readjusted within the available space. The copy of the lease deed between BSNL and Paradip Port Trust is enclosed as **Annexure-AI attached to the DP**. The BSNL Office will be removed and the monetary value of the structure is Rs.0.7684 Crores.

The extent of forest area under use by this structure is 0.0452 ha and has been in use prior to 25.10.1980.

- (v) **Port Quarters:** The User Agency has reported that the structure is the oldest part of the township project and not in good condition and will be relocated suitably. The Port quarters are very old quarters and the supporting documents were lost during Super Cyclone of 1999. **The port quarters will be removed and relocated** and the monetary value of the structure is Rs.1.57 Crores. **The extent of forest area under use by this structure is 0.0929ha and has been in use prior to 25.10.1980.**
- (vi) **Police Station:-** The User Agency has reported that the existing structure though initially constructed at the beginning of the Port during 1960s but renovated, maintained and repaired from time to time. The Paradip Police Station has been notified vide Notification No.12794/P dtd.19.05.1964 of Govt. of Odisha which was communicated by Superintendent of Police, Jagatsinghpur vide letter No.700/E dtd.04.05.2009 which is enclosed as **Annexure-A2 attached to the DP. The Police Station will be removed and relocated** and the monetary value of the structure is Rs.0.5 Crores. **The extent of forest area under use by this structure is 0.003 ha and has been in use prior to 25.10.1980.**
- (vii) **Aahar Kendra:-** The User Agency has reported that the Aahar Kendra, a prefabricated structure installed over the plinth of an old and damaged building constructed during 1970s, was established at the request of Collector, Jagatsinghpur to facilitate a social welfare scheme of the State Government. The copy of the letter of Collector, Jagatsinghpur vide his letter No.38 dtd.14.01.2016 is enclosed as **Annexure-A3 attached to the DP.** The Aahar Kendra will be relocated and the monetary value of the structure is Rs.0.10 Crores. **The extent of forest area under use by this structure is 0.0018ha and has been in use after 25.10.1980.**
- (viii) **Bus Stand:** The User Agency has reported that it is a vacant land and is being utilized for parking of buses. Since it is an old bus stand, no documentary proof is available. No removal or dismantling of structure is required. The extent of forest area under use is 0.7245ha and has been in use prior to 25.10.1980.

Thus, out of the total forest land of 21.250ha involved for Rail-Cum-Road connectivity (Transport Corridor) in the instant project, the extent of forest area under use for different purposes comes to 1.176ha.

B. Expansion of Inner Harbour Including Western Dock & Stock Yard over 54.285ha

The User Agency has reported that the Stock Yard for Coal & Gypsum is neither any platform nor shed structure. Only vacant land is used for stacking coal etc as and when required, awaiting for evacuation of cargo from the Harbour area. The area is in use since 1966 i.e. from the date of operation of the Port. No removal or dismantle is not necessary. The extent of forest area under use is 5.0ha and has been in use prior to 25.10.1980.

In view of continuity in use of forest land illegally for different non-forest purposes within the port limit even after 25.10.1980, MoEF&CC, GoI may therefore take note of these developments and impose penal measures as appropriate for compliance by the user agency.

12. Compliance of FRA guidelines of GoI, MoEF&CC pertaining to forest land proposed for diversion

In compliance to Govt. of India, MoEF&CC circular vide F.No. 11-9/1998-

FC(Pt.) dt. 3.8.2009 and subsequent guidelines issued thereafter in the matter of ensuring compliance to the provisions of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 while processing a forest diversion proposal, the Collector, Jagatsinghpur has issued the required certificate in the prescribed format pertaining to the proposed forest area of 75.635 ha of Revenue forest proposed to be diverted under this project which is enclosed at Page No.27/DP. The Proceeding of Ward Sabha Resolution dated 25.04.2018 both in Odia and English are enclosed at Page No.29-37/DP.

13. Geo-referenced digital map

Ministry of Environment and Forests, Government of India in their letter F. No. 11-9/98 dated 8.7.2011 have issued guidelines that all applications seeking prior approval of the Central Government under Forest (Conservation) Act, 1980 for diversion of forest land for non-forest purpose must be accompanied with Geo-referenced boundary in shape file pertaining to forest land proposed for diversion. In compliance to the above, the user agency has submitted the Geo-referenced digital data (in soft copy) and digitalized maps along with coordinates of latitude and longitude duly verified by ORSAC and authenticated by DFO, Mangrove Forest Division (WL) Rajnagar in respect of 75.635 ha of Revenue forest land proposed for diversion along with shape file & KML file. The soft copy in CD form is also enclosed to the DP

14. Others

The Site inspection reports of Rajnagar(Mangrove) Forest Division and RCCF, Bhubaneswar are furnished at Page-48-49/DP and page 51-53/DP respectively. NPV is applicable to this project and the User Agency has furnished undertaking to pay the same (Page-39/DP).. The Basic information of Rajnagar Mangrove Forest Division(WL), District Profile of Jagatsinghpur district and the State Profile have been furnished at Page-156-158DP.

Principal Chief Conservator of Forests, Orissa has recommended this proposal.

All relevant maps have been appended to the diversion proposal. All the statutory proforma have been duly filled up.

In view of the above position, it is requested that the Govt. of India, Ministry of Environment, Forests and Climate Change may kindly examine the proposal for diversion of 75.635 ha of forest land within the limits of Paradip Port Trust at Paradip coming under jurisdiction of Rajnagar Mangrove Division/Jagatsinghpur district, Odisha for development of Outer Harbour, Inner Harbour including Western Dock & mechanization of existing operational berth by M/s Paradip Port Trust and convey their approval under Section-2 of Forest (Conservation) Act, 1980 subject to the following conditions.

- i. The project proponent shall undertake plantation of suitable species in the vacant spaces available within the applied area as well as in the Port limit area as per advice of the Divisional Forest Officer, Rajnagar(Mangrove)Division at project cost.
- ii. The user agency shall undertake posting of durable six feet high RCC pillars along the forest area included in diversion proposal and embedded with pillars two feet inside and 4 feet above the ground with serial number, forward and back bearings and distance from adjacent pillar posted clearly.
- iii. The user agency shall undertake that the contractors engaged in the project shall not damage any forest growth and wildlife found in the area.

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| | <ul style="list-style-type: none">iv. The execution of the project shall also be subject to CRZ clearance and Environmental Clearance of the competent authority.v. It should be ensured by the user agency that movement of Olive Ridley does not get affected owing to this project including during its construction phase.vi. Penal measures as would be imposed, shall be complied with by the user agency. |
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Comments of Additional Information By :

i. TO Remarks

The facts of the proposal for diversion of 75.635 ha of forest land within the limits of Paradip Port Trust at Paradip coming under jurisdiction of Rajnagar Mangrove Division/Jagatsinghpur district, Odisha for development of Outer harbour, Inner Harbour including wester dock & Mechanization of existing operational berth by M/s s Paradip Port Trust, may be placed before FAC in its forthcoming meeting scheduled to be held on 15.10.2018 for their examination and appropriate recommendation.

ii. AIG Remarks

iii. IG Remarks

iv. ADG Remarks

v. DG Remarks

vi. Secretary Remarks

vii. MOS Remarks

viii. MEF Remarks

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