



**Ports and
Logistics**

DPCL/ENV/2024-57

Date - 28.11.2024

To

The Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office, A/3, Chandrasekharpur,
Bhubaneswar- 751023
E-mail: roez.bsr-mef@nic.in

Sub : Half yearly Compliance report of Environment & CRZ clearance for expansion of Dhamra Port at Dhamra, Bhadrak, Odisha for the period Apr'24 to Sept'24.

Ref: Environment & CRZ clearance for Revised Master Plan Development at Dhamra Port dated 15th November 2019 bearing F.No.11-104/2009-IA.III.

Dear Sir,

With reference to the above-mentioned letter for the said subject matter, please find enclosed herewith the compliance to the conditions stipulated in the letter for the period Apr'24 to Sept'24 in soft copy for your kind reference. The said period compliance report is uploaded on the PARIVESH portal.

Thanking you,
Yours Sincerely,

Santosh Kumar Nayak
Head - Environment



Encl: As above

Copy to:

- 1) The Director (Monitoring –IA-III Division), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110003
- 2) Zonal Office, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107 (W. B.)
- 3) The Member Secretary, State Pollution Control Board, Odisha, Parivesh Bhawan, A/118, Unit 8, Nilakantha Nagar, Nayapalli, Bhubaneswar-751012
- 4) The Regional Officer, State Pollution Control Board, Odisha, Plot no. 1602, Ganeshwarapur, Januganj, Balasore – 756019
- 5) Member Secretary OCZMA & Director, Env-cum-Spl. Secretary to Govt., Forest & Environment Dept., Govt. of Odisha, Plot No 108, Surya Nagar, Unit-VII, Bhubaneswar - 751003.

The Dhamra Port Company Ltd
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Revised Master Plan - Half yearly Compliance report of the conditions stipulated in Environmental and CRZ Clearance of Revised Master Plan Development of Dhamra Port project vide letter dated 15 th November 2019 Ref. No. F.No.11-104/2009-1A-III for the period April 2024 to September 2024.		
S. No.	Conditions	Compliance Status as on 30.09.2024
A. Specific Conditions:		
I	Construction activity shall be carried out strictly according to the provisions of the CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Construction activities are being carried out in line to the approvals accorded and in compliance to the provisions of CRZ notification 2011, as amended till date.
II	All the recommendations and conditions specified by the Odisha State Coastal Zone Management Authority vide letter No. 163/OCZMA dated 10.05.2019 shall be complied with.	All the recommendations and conditions specified by the Odisha State Coastal Zone Management Authority vide letter No. 163/OCZMA dated 10.05.2019 are complied.
III	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. Consent to Establish has been obtained from State Pollution Control Board, Odisha vide letter no. 1874 IND-II-CTE-6289 dated: 17.02.2020 and is valid till 16.02.2025. Consent to Operate has been obtained from State Pollution Control Board, Odisha vide letter no. 4218-IND-I-CON-6348 dated: 24.04.2020 and is valid till 31.03.2025.
IV	The project proponent shall comply with the air pollution mitigation measures as submitted.	Complied. As a part of existing operation, following air pollution control and mitigation measures are being adopted. <ul style="list-style-type: none"> • Use of dust suppression system in hopper, conveyor belt and transfer points. • Pre wetting of cargo before tipping in wagon tippler. • Wagon cargo loading by closed silo system. • Covering of outgoing loaded rail wagon at "Wagon covering station". • Regular water sprinkling by tankers. • Rain guns are fixed all around the stack yard for suppression of dust during stacking, reclaiming and during high wind period. • Dust suppression system at wagon tippler area. • Mobile dust buster is also used in stack yard and other areas for controlling fugitive emission. • Use of dust suppression system in conveyor line. • Tarpaulin covering of minerals stored in stack yard. • Use of water mist canon for suppression of fugitive dust emission. • Vacuum sweeping machine is engaged for road cleaning. • Road cleaning by mechanized and manual



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S. No.	Conditions	Compliance Status as on 30.09.2024
		<p>means is being carried out on regular basis.</p> <ul style="list-style-type: none"> • Use of leak proof transporting vehicles for intra transportation of materials. • Limiting the vehicle speed to 20 km/hr to control fugitive dust emission. • Maximum mechanized handling (Loading and unloading) of cargo from ship. • Greenbelt development along the periphery of storage yard /stack yard. • Regular monitoring of Ambient Air Quality at 6 locations is being carried out by NABL accredited laboratory following the prescribed guidelines. All the results were within the prescribed limit (Annexure-IA) • Periodic awareness and training programs are being conducted regularly among employees and workers.
V	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.	<p>Complied.</p> <p>The drainage pattern is being maintained as per the approved layout of Revised Master Plan.</p>
VI	Dredging shall not be carried out during the fish breeding season.	Noted and the same is being followed.
VII	Dredging, etc. shall be carried out in the confined manner to reduce the impacts on marine environment including turbidity and turbidly should be monitored (preferably monthly) near Kanika Island during the dredging.	<p>Being complied.</p> <p>Dredging is being carried out in the areas identified and approved as a part of Revised Master plan.</p> <p>As a part of existing operation, periodic marine water quality monitoring including turbidity is carried out near Kanika Island by engaging MOEF&CC approved laboratory. The details of marine water quality monitoring reports for the period from Apr'24 to Sep'24 is enclosed as Annexure-IB.</p>
VIII	No underwater blasting is permitted.	No underwater blasting is carried out.
IX	Dredged material shall be disposed safely in the designated areas and also to be utilized for beach nourishment. With the enhanced quantities, the impact of dumping on the coastal environment should be studied and necessary measures shall be taken on priority basis if any adverse impact is observed.	<p>Noted and is being complied.</p> <p>The capital as well as maintenance dredging was carried out during the compliance period of April 24 to September 24. Total capital dredging was 3.4 m cu.M & 3.5 m cu.M of dredged material was used for reclamation. Total maintenance dredging was 6.63 m cu.M & 6.51 m cu.M of dredged material was disposed in the sea. As stipulated in EIA report, the dredged materials are disposed inside sea at MoEF&CC approved designated location with (-) 20 m depth. The marine water quality monitoring is being carried out by NABL & MoEF&CC accredited laboratory on a periodical basis. The results conclude that there is no significant impact observed on marine water quality. The monitoring</p>



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		results for the period Apr'24 to Sep'24 is enclosed as Annexure – IB .
X	Shoreline should not be disturbed due to dumping. Periodical study on shoreline changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report	Noted. Shoreline monitoring study was carried out as a part of Environment Impact Assessment study for Revised Master plan and further, the same will be carried out at regular intervals to check the impact and if required mitigation measures will be carried out.
XI	While carrying out dredging, an independent monitoring shall be carried out by Government Agency/Institute to check the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.	Noted and will be complied. However, regular monitoring activities are being carried out by a NABL & MoEF & CC accredited lab.
XII	The freshwater requirement of 40 MLD will be met by Desalination plant of 40 MLD which will be developed on modular basis	Noted. Desalination plant of 40 MLD will be developed when required. Existing operational requirements are being fulfilled through Mantai river. Permission for drawl of 2.05 cusec is obtained from Water Resource Department.
XIII	The domestic and industrial wastewater will be treated in STP and ETP and treated water will be reused / recycled for horticulture and other purposes	Complied. As a part of existing operation, four STP of capacity 150 KLD, 140 KLD, 25 KLD and 15 KLD are functioning for treatment of sewage from Port and township area. 3 nos. of Settling ponds have been constructed for treatment of runoff water. The treated water is being used for dust suppression of internal roads. Periodic testing of water quality is being carried out by MoEF&CC approved laboratory and the results are being submitted to SPCB/MOEF&CC. All results are well within the prescribed standards. The treated water is being used for horticulture purpose.
XIV	Marine ecological studies and its mitigation measures for protection of phytoplankton, zooplanktons, benthic macrofauna, etc. prepared by Centre of Envotech and Management Consultancy Private Limited (CEMC) as given in the EIA-EMP Report shall be complied with in letter and spirit.	Complied. As part of existing operations, Periodic monitoring program covering all seasons on various aspects of the coastal environments is being carried out by NABL & MoEF&CC accredited laboratory. The monitoring results for the period Apr'24 to Sep'24 is enclosed as Annexure – IB .
XV	A copy of the Marine and riparian biodiversity management plan duly validated by the State Biodiversity Board shall be obtained and implement in letter and spirit.	Noted. As a part of EIA for RMP Dhamra, detailed Biodiversity Impact study and Management plan has been prepared and developed by Berhampur University. Same shall be updated for submission to the State Biodiversity Board for validation.



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XVI	A periodic monitoring programme covering all the seasons on various aspects of the coastal environments need to be undertaken by NABL accredited laboratories during construction and operation phase of the project. The monitoring should cover various physico-chemical parameters coupled with biological indices such as microbes, plankton, benthos and fishes. Deviations in the parameters shall be addressed with suitable measures to conserve the marine environment and its resources.	Complied. As a part of existing operations, periodic monitoring program covering all seasons on various aspects of the coastal environments is carried out by NABL & MoEF&CC accredited laboratory. The monitoring results for the period Apr'24 to Sep'24 is enclosed as Annexure – IB .
XVII	Continuous online monitoring of air and water quality covering the project area shall be carried out and the compliance report shall be submitted to the regional office of MoEF&CC.	Noted. As a part of existing operations, periodic monitoring of air and water quality is being carried out through MoEF&CC and NABL approved laboratory.
XVIII	Effective and efficient pollution control measures like covered conveyors/stacks (coal, iron ore and other bulk cargo) with fogging/back filters and water sprinkling commencing from ship unloading to stacking to evacuation shall be undertaken. Coal and iron ore stack yards shall be bounded by thick two tier green belt with proper drains and wind barriers wherever necessary. Coal should be handled properly at port limits so that the coal dust will not reach the surrounding areas. Sprinklers shall be used at coal storage regularly and to monitor the coal dust in the air	Noted. As a part of existing operation, following pollution control measures are being implemented at site <ul style="list-style-type: none"> • Transportation of Coal/Iron ore is done in covered conveyor belt system. • Water sprinkling is being carried out on road on regular basis. • Dust suppression system has been installed in dust prone area to mitigate the fugitive emission. • Dust buster & rain gun system has been deployed in stack yard to mitigate the fugitive emission from the stack yards. • Wagon covering system is being used for covering of all loaded wagons going out of Port premises. • Rain guns and dust buster are being used to sprinkle water on the coal storage regularly to suppress the coal fugitive dust.
XIX	Sediment concentration should be monitored fortnightly at source and disposal location of dredging while dredging. Online monitoring system should be installed for assessing turbidity during dredging.	Complied. As a part of existing operation fortnightly monitoring of sediment quality is done through MoEF&CC and NABL approved laboratory. However, the possibility of installing Online Turbidity Monitoring will be explored.
XX	Marine ecology shall be monitored regularly in terms of water quality (Salinity, temperature, DO, BOD, PHc, nutrients), sediment quality (Metals, PHc, Organic carbon etc) and biological characteristics (phytoplankton, zooplankton, benthic macrofauna and other marine biodiversity components) as part of the environment management plan specified in the report. Any	Complied. As a part of existing operation periodic monitoring program covering all seasons on various aspects of the marine ecology monitoring is carried out by NABL & MoEF&CC accredited laboratory. The monitoring results for the period Apr'24 to Sep '24 is enclosed as Annexure – IB .

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	deviations from the baseline should be reported to the OCZMA/OSPCB.	
XXI	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life, particularly benthos. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.	Noted. Utmost care is being taken to avoid spillage of fuel/engine oil and lubricants from the construction site. In case of any accidental spillage, saw dust or sand will be used along with absorbent to arrest the spillage. Used oil/waste oil/waste containing oils are handed over to SPCB approved authorized recyclers.
XXII	Necessary arrangements for the treatment of the effluents and solid wastes/ facilitation of reception facilities under MARPOL must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986. The provisions of Solid Waste Management Rules, 2016. E-Waste Management Rules, 2016, and Plastic Waste Management Rules, 2016 shall be complied with.	Noted As a part of existing operation, four STP of capacity 150 KLD, 140 KLD, 25 KLD and 15 KLD are functioning for treatment of sewage from Port and township area. Waste management is being done as per the prescribed Rules. Color coded waste bins have been provided for collection and segregation of different types of waste. Generated wastes are being handled as per the 5R concept of waste management and as per the vision of APSEZ to become "A Zero Waste to landfill Company". Waste reception facility is provided for visiting vessel. Reception facilities as per DG Shipping guidelines have been provided for visiting vessels to dispose of ship generated waste. The collected waste is being handled and disposed as per the prescribed guideline. Plastic wastes are sent to the Cement Plant for energy recovery through co-processing. Management of plastic waste is being done as per the Plastic Waste Management Rules, 2016 The E-Waste is sent to authorized recycler for proper disposal as per the E-Waste Management Rules, 2016.
XXIII	Compliance to Energy Conservation Building (ECBC-2017) shall be ensured for all the building complexes. Solar/wind or other renewable energy shall be installed to meet energy demand of 1% equivalent	Noted & is being complied. The following initiatives are being taken for conservation of electrical energy: 1. Use of LED lights in place of conventional lighting system in our Port and Township common areas. 2. Use of automatic on/off timers switch in street lightings. 3. Use of solar light fitted with LED bulbs. 4. Use of translucent sheets in bigger shed for natural lightings during day hours. 5. Use of bigger sized glass windows in offices and MCC building for natural lights in day hours. 6. Use of central ACs system instead of individual ACs in bigger offices and buildings.

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		<p>7. Use of VFD (variable frequency drive) in operational area for power savings.</p> <p>8. Roof top solar power plant of 621 KWP capacity is installed.</p>
XXIV	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	<p>Noted & will be complied.</p> <p>At present no hazardous or petroleum products are being handled at shore and details RA recommendation will be complied as and when applicable. However, as a part of present operation the following measures are being adopted: Disaster Management Plan has been prepared and approved by District Administration. Periodic mock drills are being carried out. Prescribed Safety guidelines are followed at workplaces. Dedicated team lead by dedicated site safety team along with team of the Corporate are ensuring best safety practices at Port premises.</p>
XXV	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo. Tier 1 should be made available with the port for attending the large oil spills. The company should inform the coast guard for availing tier 2 facility.	<p>Necessary action has been taken to contain, control and recover the accidental spills of fuel and cargo. Oil spill contingency plan has been prepared for Dhamra Port and submitted to District Administration and Coast guard. Any accidental discharge of oil / lubricants will be handled as per the plan. Port is equipped with oil spill contingency facility and required dispersant chemicals. Seven persons have been undergone IMO Tire 1 training, two persons have undergone IMO Tire 2 training and one person has undergone IMO Tier 3 training at Port. The last drill was conducted on 21.09. 2024.</p>
XXVI	Necessary arrangement for general safety and occupational health of people should be done in letter and spirit.	<p>Complied.</p> <p>We have a strict safety regimen with the motto "Safety First".</p> <p>Safety observations are mandatory from every department of the Port and immediate measures are being taken to rectify the shortcoming.</p> <p>OHSAS Guidelines and MSIHC Guidelines are followed for handling of Hazardous materials. First aid center facilities have been provided for employees and workers. Inline to this a wellness center is also operated outside the port premises for providing medical facilities for villagers. Vaccination programme is being carried out regularly for our waste management teams. Our Port is ISO 45001-2018 certified Port.</p>
XXVII	All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEF&CC along with half yearly compliance report	<p>Noted.</p> <p>Environment Management Plan is enclosed as Annexure-II.</p>




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		Rs.8.64 Crore has been spent towards Environment management for the period of Apr'24 to Sep'24 and the detail is enclosed as Annexure – III .
XXVIII	The effluent generated by desalination plant and FSRU should be released at designated sites as suggested in the EIA report.	Noted. At present, no FSRU & desalination plant has been developed.
XXIX	The company shall draw up and implement Corporate Social Responsibility plan as per the Company's Act of 2013.	Noted The details work carried out under the Corporate Social Responsibility plan for the period of Apr'24 to Sep'24 and the details expenses breakup, totaling to Rs. 4.83 Cr, is enclosed as Annexure-IV .
XXX	As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.III dated 1st May 2018, project proponent has proposed an amount of Rs. 21.4998 Crores (0.125% of the project cost) under Corporate Environment Responsibility (CER) Plan for the activities such as Biodiversity Conservation, Turtle and Marine life Research Centre, Water Conservation and Water Recharge, Fishermen Alternate Livelihood Development, Agriculture and Horticulture Promotion, Community Infrastructure and Women Empowerment Promote Entrepreneurship. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.	Noted. Annual CER Expenditure till date is provided in the Annexure-V .

B. Standard Conditions:

I. Statutory compliance:

I	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule I species in the study area).	Noted. Site-specific Conservation Plan & Wildlife Management plan has been prepared & approved by PCCF(WL) & Chief Wildlife Warden on 1 st November 2024. Approval letter of Site-specific Conservation Plan & Wildlife Management plan is attached in the Annexure – IX .
II	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011 and the State Coastal Zone Management Plan as drawn up by the State Government. No construction works other than those permitted in	Construction activities are being carried out in line to the approvals accorded and in compliance to the provisions of CRZ notification 2011, as amended till date.



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	Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	
III	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	Noted. We have received permission for 8 nos. of bore wells from CGWA for drawl of ground water. 7 nos. of borewells are operational.
IV	All excavation related dewatering shall be as duly authorized by the CGWA. A NOC from the CGWA shall be obtained for all dewatering and ground water abstraction.	Noted.
V	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	Noted. 20,000 KVA power is being sourced from NESCO Odisha. The agreement copy was submitted along with the last half yearly compliance report vide our letter no. DPCL/ENV/MOEFCC/2020-113 dated 23.11.2020. However, at present license of NESCO has been transferred to TP North Odisha Distribution Limited (TPNODL), Date of Order-25.03.2021.
VI	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.	Noted. License from Chief Controller of Explosives for storage of 22.00 KL of Petroleum Class-B (License No.-P/EC/OR/14/1587(P237780), Validity-31.12.2024) & for 20.00+70.00(90.00KL) of Petroleum Class-B (License No.-P/EC/OR/14/2243(P321827), Validity- 31.12.2025. NOC from the fire department was submitted along with last half yearly compliance report vide our letter no. DPCL/ENV/MOEFCC/2020-113 dated 23.11.2020.
II. Air quality monitoring and preservation:		
I	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the project area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.	Noted. Ambient Air Quality Monitoring (twice a week) is carried out by NABL & MoEF&CC accredited agency. All emissions are well within the prescribed standards. Air monitoring is being carried out at 6 locations (3 inside & 3 outside). The locations are selected as per the EIA and at an angle of 120° each covering both upwind & down wind. Air monitoring location map was submitted along with half yearly compliance report vide our letter no. DPCL/ENV/MOEFCC/2020-113 dated 23.11.2020.
II	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards	Noted. As a part of existing operation, transportation of Coal/Iron ore is done in covered conveyor belt system. Water Sprinkling is carried out on road on



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		regular basis through water tanker. Dust suppression system has been installed in dust prone areas to mitigate the fugitive emission. Dust buster & rain gun system has been deployed in stack yard to mitigate the fugitive emission from the stack yards.
III	Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This will act as dust curtain as well achieving zero dust discharge from the site. These curtain or shroud will be immensely effective in restricting disturbance from wind in affecting the dry dock operations, preventing waste dispersion, improving working conditions through provision of shade for the workers.	<p>As a part of existing operation, following pollution control measures are being implemented at site:</p> <ul style="list-style-type: none"> • Vacuum sweeping machine is engaged for road cleaning. • Road cleaning by mechanized and manual means is carried out on regular basis. • Regular water sprinkling by tankers are also carried out. • Rain guns are fixed all around the stack yard for suppression of dust during stacking, reclaiming and during high wind period. • Pre wetting of cargo before tipping in wagon tippler. • Dust suppression system at wagon tippler area. • Mobile dust buster is also used in stack yard and other areas for controlling the fugitive emission. • Use of dust suppression system in conveyor line • Regular ambient air quality at 6 locations are being carried out through NABL approved laboratory as per the frequency and prescribed guidelines and all the results were well within the prescribed limit (Annexure IA). • Periodic awareness and training programs are also organized by Environment department for workers and employees.
IV	Dust collectors shall be deployed in all areas where blasting (surface cleaning) and painting operations are to be carried out, supplemented by stacks for effective dispersion.	<p>Noted</p> <p>No such activity has been carried out during Apr'24 to Sep'24.</p>
V	The vessels shall comply the emission norms prescribed from time to time.	MARPOL and Ballast Water Convention guidelines are enforced by DPCL for visiting ships.
VI	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low Sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	<p>Noted.</p> <p>As a part of existing operation 6 nos. of standby DG Sets of capacity ranging from 62.5 KVA to 200 KVA are in position for emergency backups & uninterrupted power supply to the water supply system and firefighting system.</p>



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VII	<p>A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.</p>	<p>Noted.</p> <p>DPCL has an exclusive rail connectivity for the project and has a proposal for future expansion of rail-road connectivity.</p> <p>In FY 2023-24, rail track of 12.5 KM length from Dhamra Yard to Bansara has been built.</p> <p>In FY 2024-25, rail track of 12.5 KM length from Tihidi to Bhatatira has been built.</p> <p>Two lane road of 9.20 KM length from plant to Mantei River Bridge has been built in FY2023-24.</p> <p>Besides, DPCL has participated with PWD for maintenance and improvement of the main service road to Dhamra and has shared the cost of development.</p> <p>As a part of RMP EIA studies, Traffic study was conducted for assessment & evaluation of feasibility of Four Lane Road (which is already approved as a part of Phase –II clearance) with future provision of Two lane, to be developed as a part of Revised Master Plan to connect Bhadrak & Dhamra Port. Based on this –</p> <ol style="list-style-type: none"> 1. Both normal traffic + generated traffic (due to proposed expansion) considered for the study. 2. Four lane (which is already approved as a part of Phase –II clearance) with future provision of 2 lane road, to be developed as a part of Revised Master Plan is proposed, which shall be sufficient to meet the Port Requirement as per the IRC guidelines. <p>Existing approach road from Jamujhadi to Dhamra will be utilized during construction phase (apart from proposed NW-5) which is being widened by GoO which will improve the traffic conditions. Proposed road link will induce local traffic movement on either side and boost the travel characteristics of the people residing in nearby villages. In addition, for easy evacuation of cargo, a new Rail/Road/Utility Corridor (12 km x 125 m wide) is also proposed from Northern side of Dhamra Port.</p>
III. Water quality monitoring and preservation		
I	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.	The drainage pattern of the area is maintained. Creeks are periodically cleaned to ensure free flow of water from both outside and inside. Further inline to Revised Master Plan proper drainage facility will be developed as per the drainage plan.
II	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be	Noted.

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S. No.	Conditions	Compliance Status as on 30.09.2024
	used to contain the spreading of suspended sediment during dredging within the dredging area.	DPCL ensuring dredging through TSHD and further regular marine monitoring is carried out to check the level of turbidity. Silt curtain shall be used, when working near sensitive areas.
III	No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary/ channel. All such wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.	Complied. Vessels are not allowed to discharge the onboard wastewater in estuary/channel. The vessels have their own STP where sewage water is being treated. However, DPCL will explore the possibility of treating wastewater generated from ships.
IV	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	Noted. Oil spill control equipment such as booms / barriers are in readiness for oil containment and skimmers for recovery. Depending upon the type of oil spill, containment measures will be carried out in cooperation of the Coast-Guard. Seven persons have been undergone IMO Tire 1 training and two persons have undergone IMO Tire 2 training and one person has undergone IMO Tier 3 training at Port. Oil Spill drills are conducted on a regular basis and the last drill was conducted on 21.09.2024.
V	The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.	Noted. As of existing operation facility, there is no intake or discharge.
VI	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be prevented by suitable precautions and by providing necessary mechanisms to trap the spillage.	Utmost care is being taken to avoid spillage of fuel/engine oil and lubricants from the construction site. In case of any accidental spillage, saw dust or sand is being used along with absorbent to arrest the spillage. Used oil/waste oil/waste containing oils are handed over to SPCB approved authorized recyclers. Marine water quality & productivity is monitored by MoEF&CC accredited laboratory. There is no adverse impact on water quality and marine productivity in the vicinity.
VII	Total freshwater use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.	Noted. As a part of existing operation, required fresh water is sourced with the permission from Water Resource department, Government of Odisha.
VIII	Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for horticulture, flushing, backwash, HVAC purposes and dust suppression.	Noted. As a part of existing operation, four numbers of STP of capacity 140 KLD, 150 KLD, 25 KLD and 15 KLD are used for treatment of sewage from Port and township area. Periodic testing of water quality is being done by MOEF&CC approved laboratory and the results are being submitted to SPCB/MOEFCC. All results are well within the prescribed standards.



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S. No.	Conditions	Compliance Status as on 30.09.2024
		Annexure – IE. The treated water is being used for horticulture purpose.
IX	A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.	Noted. No treated effluent is being discharged into the public sewer/disposal/drainage systems. Treated water is used for Horticulture purpose as per the Consent to Operate (CTO) given by OSPCB.
X	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.	No such diversion is required / proposed for the project.
XI	All the erosion control measures shall be taken at water front facilities. Earth protection work shall be carried out to avoid erosion of soil from the shoreline/boundary line from the land area into the marine water body.	Noted and will be complied.
IV. Noise monitoring and prevention		
I	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report	Noted. As a part of existing operation Noise monitoring is carried out on monthly basis by engaging accredited NABL & MOEF&CC laboratory. The Monitoring results are also submitted to the regional office on a regular basis. The copy is enclosed as Annexure – IC.
II	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipment.	Complied. As a part of existing operations, <ul style="list-style-type: none"> • Vehicle maintenance is being conducted periodically. DG sets are provided with acoustic enclosures. • Personnel exposed to noise levels beyond threshold limits have been provided with protective gear like earplugs, earmuffs, etc. • DPCL have a strict maintenance regimen for all plant machinery and equipment which is reviewed by the management every day. Noise Monitoring is being carried out by a NABL & MOEF&CC accredited laboratory.
III	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Complied. DG set used in existing operation is equipped with acoustic enclosure and noise barrier.
IV	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Complied. As part of Existing operation, noise monitoring is carried out at 6 (six) locations, on monthly basis by engaging NABL & MOEF&CC accredited laboratory. All results are within the prescribed limits. The result is enclosed as Annexure – IC.
V. Energy Conservation measures		



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S. No.	Conditions	Compliance Status as on 30.09.2024
I	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Complied. DPCL has installed solar lights along the roads and common areas. Solar power generation activity will be continued in other areas. Roof top Solar power plant of 621kwp capacity is installed.
II	Provide LED lights in their offices and residential areas.	Noted. LED lights are fitted in township and Port common area. Lighting of many operational areas are also replaced with LED lights wherever possible. DPCL will further explore the possibility of using more LED light in their offices and residential areas.
VI. Waste management		
I	Dredged material shall be disposed safely in the designated areas.	Complied. As a part of existing operation, maintenance dredging has been carried out during the period of Apr'24 to Sep'24. As stipulated in EIA report and discussed in the EAC, dredged materials are disposed inside sea at MoEF&CC approved designated location. The marine water quality monitoring is being carried out by NABL & MoEF&CC accredited laboratory on a periodical basis. The results conclude that there is no significant impact observed on marine water quality. The details of Marine Water quality monitoring reports for the period from Apr'24 to Sep'24 is enclosed as Annexure IB .
II	Shoreline should not be disturbed due to dumping. Periodical study on shoreline changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report.	Noted and will be complied.
III	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986	No effluent is being generated from Port activities. However, as a part of existing operation 3 nos. of settling ponds has been constructed to treat the surface runoff. Hazardous waste is being handled as per the Hazardous waste Management Rule. Waste generated is being handled in line to 5R concept of waste management, as per the vision of APSEZ to become "A Zero Waste to landfill Company".
IV	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016	Noted DPCL has developed a vision for making itself – "A Zero Waste to Landfill Port" by adoption of 5R principle of waste management i.e., Reduce, Reuse, Reprocess, Recycle & Recover. During the period Apr'24 to Sep'24, a total quantity of 220.446MT (Food waste - 163.705MT, Plastic



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S. No.	Conditions	Compliance Status as on 30.09.2024
		waste - 50.112MT, Paper waste - 3.32MT, Glass waste - 3.309MT) of solid waste has been generated & a total quantity of 182.575MT (Food - 163.705MT, Plastic - 3.36MT, Paper - 6.5MT, Glass - 9.01MT) has been handled in line to 5R concept. Biodegradable wastes are being used for compost preparation. Recyclable waste is handed over to authorized recyclers.
V	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	Construction and demolition activities related wastes are handled as per Construction and Demolition Waste Management Rules, 2016 and used for filling low lying area within our port premises.
VI	A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project	Noted. DPCL has undertaken the management of solid waste with a vision for achieving – “A Zero Waste to landfill Port” by adopting ‘5R principle of waste management i.e., Reduce, Reuse, Reprocess, Recycle & Recover’. During the period Apr’24 to Sep’24 a total quantity of 220.446MT (Food waste-163.705MT, Plastic waste-50.112MT, Paper waste-3.32MT, Glass waste -3.309MT) of solid waste has been generated & a total quantity of 182.575MT (Food-163.705MT, Plastic-3.36MT, Paper-6.5MT, Glass-9.01MT) has been disposed off handled in line to 5R concept. Biodegradable wastes are used for compost preparation. Recyclable wastes are handed over to authorized recyclers. Plastic wastes are being sent to Cement industry for Co-processing.
VII	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination	Complied. CFLs and TFLs are properly collected and disposed of for recycling to authorized e-waste recyclers as per the prevailing guidelines /rules of the regulatory authority to avoid mercury contamination.
VIII	Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery of oil from a spill would be assessed. Guidelines given in MARPOL and Shipping Acts for oil spill management would be followed. Mechanism for integration of terminals oil contingency plan with the overall area contingency plan under the co-ordination of Coast should be covered	Noted Oil spill contingency plan has been prepared for Dhamra Port and submitted to District Administration and Coast guard. List of equipment is enclosed as Annexure-VI . Any accidental discharge of oil / lubricants will be handled as per the plan. Port is equipped with oil spill contingency facility and required dispersant chemicals. Seven persons have been undergone IMO TIRE 1 training, two persons have undergone IMO TIRE 2 training and one person has undergone IMO Tier 3 training at Port. The last drill was done on 21.09.2024.



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S. No.	Conditions	Compliance Status as on 30.09.2024
VII. Green Belt:		
I	Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	<p>Around 30883 nos. of trees have been planted in inside Port during Apr'24 to Sep'24.</p> <p>Earlier plantation has been done along both edges of the 62.5 km rail corridor, in adjacent villages and inside the port premises. Photographs are enclosed as Annexure-VII.</p> <p>As a part of existing operation, a large nursery of multi species has been established for greenbelt development. The nursery constructed in an area of 1.5 acres with modern poly house & green house for effective plant production. More than 1 lakh saplings were developed from the nursery during last year having local plant species, forest species, seasonal plants, ornamental shrubs, Indoor plants, medicinal plants, etc. Forest species and local species like Casuriana, Terminalia, Bahunia, Pongamia, Tecoma, Peltophorum, Delonix, Neem, Calliandra, Bakul, Plumeria, Conocarpus etc are produced.</p>
II	Top soil shall be separately stored and used in the development of green belt	Complied.
VIII. Marine Ecology:		
I	Dredging shall not be carried out during the fish breeding and spawning seasons.	Noted and is being complied.
II	Dredging, etc. shall be carried out in the confined manner to reduce the impacts on marine environment	<p>Noted</p> <p>Dredging is being carried out in the areas identified and approved as a part of Revised Master plan.</p> <p>As a part of existing operation, Periodic marine water quality monitoring including turbidity is carried out near Kanika Island by engaging MOEFCC approved laboratory. The details of Marine Water quality monitoring reports for the period from Apr'24 to Sep'24 is enclosed as Annexure IB.</p>
III	The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population.	Noted & is being complied.
IV	While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed	<p>Noted and will be complied.</p> <p>Dredging is being carried out in the areas identified and approved as a part of Revised Master plan.</p>
V	A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water and fresh water ecology and biodiversity and submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The	<p>Noted & will be complied.</p> <p>As a part of EIA for RMP Dhamra, detailed Biodiversity Impact study and Management plan has been prepared and developed by Berhampur University. Same shall be updated for submission to</p>



Revised Master Plan - Half yearly Compliance report of the conditions stipulated in Environmental and CRZ Clearance of Revised Master Plan Development of Dhamra Port project vide letter dated 15th November 2019 Ref. No. F.No.11-104/2009-1A-III for the period April 2024 to September 2024.

S. No.	Conditions	Compliance Status as on 30.09.2024
	report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities, molluscs, sea grasses, sea weeds, sub-tidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography	the State Biodiversity Board / CRZ authority for validation.
VI	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves, and other marine biodiversity components including all micro, macro and mega floral and faunal components of marine biodiversity	As a part of existing operation periodic monitoring program covering all seasons on various aspects of the marine ecology monitoring is being carried out by NABL & MoEF&CC accredited laboratory. The details of Marine Water quality monitoring reports for the period from Apr'24 to Sep'24 is enclosed as Annexure IB .
IX. Public hearing and Human health Issues:		
I	The workspace shall be maintained as per international standards for occupational health and safety with provision of fresh air respirators, blowers, and fans to prevent any accumulation and inhalation of undesirable levels of pollutants including VOCs	Noted & Complied. As a part of existing operation periodic VOCs monitoring is being carried out by NABL & MoEF&CC accredited laboratory. Report is enclosed as Annexure – ID .
II	Workers shall be strictly enforced to wear personal protective equipments like dust mask, ear muffs or ear plugs, whenever and wherever necessary/required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.	Complied. Workers are strictly enforced to wear PPE equipment's like dust mask, ear-muffs, ear plugs whenever & wherever required as per the DPCL PPE policy.
III	In case of repair of any old vessels, excessive care shall be taken while handling Asbestos & Freon gas. Besides, fully enclosed covering should be provided for the temporary storage of asbestos materials at site before disposal to CTSDF.	Not Applicable.
IV	Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/ accidents	Complied. The employees, workers of DPCL have been trained on safety guidelines. Regular Fire training, Mock Drills are conducted as per the Crisis Management Plan. The details of drills, Safety training, Fire training conducted towards dock safety for the period Apr'24 to Sep'24 is enclosed as Annexure-VIII .
V	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	Complied. As a part of existing operation, DPCL have Disaster Management Plan and Emergency Response Plan, that are implemented as and when required. Copy was submitted along with last half yearly compliance report vide our letter no. DPCL/ENV/MOEFCC/2020-50 dated 23.05.2020.



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S. No.	Conditions	Compliance Status as on 30.09.2024
VI	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	Noted. Maximum construction labor engaged at construction site are from nearby village areas and are staying at their own house. Construction labors coming from outside area are residing in our workers colony specially built for non-local labors. All basic facilities such as clean water, electricity, toilet, bathroom, health care, STP, safe drinking water etc. are provided in this colony.
VII	Occupational health surveillance of the workers shall be done on a regular basis	Complied Occupational Health Surveillance of the workers is being carried out on half yearly basis at the time of gate pass renewal.
X. Corporate Environment Responsibility:		
I	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six monthly report.	Noted. Copy of APSEZ (2023) Environment policy is attached as Annexure - X
II	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	DPCL has a well-structured Environmental Management Cell, staffed with qualified manpower at site supported by team at Head Office in Ahmedabad.
III	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Noted & will be complied. As a part of the existing operation EMP has been prepared. Environment Management Plan is enclosed as Annexure II .
IV	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted. Internal and external IMS audit (Integrated Management System) is being carried out by internal auditor (half yearly) / external agency (annually) as per ISO 14001:2015 (Environment



Revised Master Plan - Half yearly Compliance report of the conditions stipulated in Environmental and CRZ Clearance of Revised Master Plan Development of Dhamra Port project vide letter dated 15 th November 2019 Ref. No. F.No.11-104/2009-1A-III for the period April 2024 to September 2024.		
S. No.	Conditions	Compliance Status as on 30.09.2024
		Management System). Same will be continued for Revised Master Plan development of the Port.
XI. Miscellaneous:		
I	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied The Paper clippings of the Advertisement was already submitted vide our letter no DPCL/ENV/OSPCB/2020-20 dated 01.02.2020.
II	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied. The receipt of the said letters was already submitted vide our letter no DPCL/ENV/OSPCB/2020-20 dated 01.02.2020.
III	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied. Status of Compliance of the stipulated environment clearance conditions for Revised Master Plan, including results of monitory data will be updated on half yearly basis.
IV	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complied. Last Half Yearly compliance report was submitted vide letter no. DPCL/ENV/MOEF/2023-83 dated 22.05.2024.
V	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company	Complied Environmental Statement for FY 2023-24 was submitted to SPCB Odisha vide our letter no. DPCL/ENV/2022-070 dated 24.09.2024.
VI	The criteria pollutant levels namely; PM _{2.5} , PM ₁₀ , SO ₂ , NO _x (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied As a part of Existing operation Ambient Level is being monitored with a frequency (weekly twice) by a NABL & MOEF&CC accredited laboratory. The Monitoring data is being displayed at DPCL main gate for public view.
VII	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project	Noted.
VIII	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted and is being complied.



Revised Master Plan - Half yearly Compliance report of the conditions stipulated in Environmental and CRZ Clearance of Revised Master Plan Development of Dhamra Port project vide letter dated 15 th November 2019 Ref. No. F.No.11-104/2009-1A-III for the period April 2024 to September 2024.		
S. No.	Conditions	Compliance Status as on 30.09.2024
IX	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee	Noted. Environment Management Plan is enclosed as Annexure II . Commitments made during Public hearing are being complied.
X	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted.
XI	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
XII	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Noted
XIII	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
XIV	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Noted and is complied with full cooperation during the inspection.
XV	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Noted
XVI	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted



List of Annexures

Sl.No	Annexure No.	Details
01	Annexure-I A to E	Environmental Monitoring
02	Annexure-II	Environment Management Plan
03	Annexure-III	Environment Management Expenditure
04	Annexure-IV	CSR Plan & Expenditure details
05	Annexure-V	CER Expenditure details
06	Annexure-VI	List of Oil Spill Control Equipment
07	Annexure-VII	Greenbelt Photograph
08	Annexure-VIII	Fire Training and Mock drill
09	Annexure-IX	Approval Letter Conservation and Management of Dhamra Port by DPCL
10	Annexure-X	Environmental Policy
11	Annexure-XI	Photographs
12	Annexure-XII	ZWL certificate
13	Annexure-XIII	NOC CGWA
14	Annexure-XIV	License transfer copy of NESCO to TPNODL
15	Annexure-XV	Organogram

ANNEXURE I

Annexure-IA


AMBIENT AIR QUALITY MONITORING REPORT (April 2024 -September 2024)

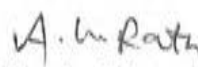
Particulate Matter (PM10)

MONTH	PARAMETERS	COLONY	KANAKA PRASAD	JETTY	BMH	DOSINGA	BHITARKANIKA
April-2024	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	Max	61.4	62.8	78.4	74.3	59.2
		Min	41.9	40.3	54.9	47.6	41.5
		Avg	52.70	51.78	66.63	60.36	51.15
May-2024	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	Max	62.1	60.1	84.6	74.1	56.4
		Min	44.6	40.6	62.7	52.9	40.3
		Avg	55.17	50.73	73.95	63.89	49.22
June-2024	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	Max	62.2	63.1	82.1	74.5	66.1
		Min	44.6	44.1	53.4	47.3	40.6
		Avg	53.31	54.14	67.07	58.89	54.21
July-2024	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	Max	66.1	58.4	72.1	64.5	56.3
		Min	44.2	40.2	43.8	40.1	40.8
		Avg	53.57	49.52	57.57	51.70	48.57
August-2024	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	Max	66.7	57.3	75.4	66.4	63.5
		Min	42.5	42.1	55.4	48.7	40.1
		Avg	51.80	48.94	56.08	56.24	51.22
September-2024	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	Max	62.7	58.1	78.6	63.2	62.5
		Min	40.8	40.6	57.4	44.9	40.9
		Avg	51.59	49.18	64.85	55.19	52.70

Particulate Matter (PM2.5)

April-2024	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	Max	29.1	30.1	37.4	35.4	30.5
		Min	17.5	17.6	24.1	19.6	16.4
		Avg	24.75	24.23	30.25	27.35	24.18
May-2024	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	Max	30.6	29.4	39.6	36.4	27.4
		Min	17.4	14.7	29.7	21.8	16.7
		Avg	25.05	22.60	31.50	28.48	22.15
June-2024	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	Max	30.6	30.8	38.6	35.2	32.1
		Min	19.4	18.7	22.4	18.7	17.4
		Avg	24.62	23.87	29.24	27.83	24.98
July-2024	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	Max	32.1	28.6	35.7	31.6	27.3
		Min	17.4	15.2	18.7	16.2	14.9
		Avg	24.47	21.97	26.53	23.89	21.26
August-2024	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	Max	30.5	28.9	37.8	32.3	30.4
		Min	18.7	16.4	19.8	19.4	16.5
		Avg	24.12	21.86	28.68	26.07	24.50
September-2024	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	Max	30.2	28.3	38.6	31.6	30.1
		Min	16.7	15.1	24.3	18.7	14.7
		Avg	25.61	22.01	30.00	25.61	22.03

Prepared By - 


Checked By-

Mitra S. K. Private Limited

Building No. D5, Unit No- 230, Bhumi World Industrial Park,
Mumbai, Nashik Highway, Pimpas Village, Bhiwandi, Near
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Doc No MSK/GFN/19511



Sulphur Dioxide (SO₂)

MONTH	PARAMETERS		COLONY	KANAKA PRASAD	JETTY	BMH	DOSINGA	BHITARKANIKA
April-2024	SO ₂ (µg/m ³)	Max	7.9	8.1	8.7	8.4	7.9	7.7
		Min	6.1	6.2	6.4	6.7	6.1	6.1
		Avg	6.91	7.00	7.56	7.55	6.95	6.82
May-2024	SO ₂ (µg/m ³)	Max	7.7	7.8	8.6	8.3	7.5	7.3
		Min	6.1	6.1	6.5	6.5	6.2	6.2
		Avg	6.77	6.98	7.61	7.34	6.81	6.7
June-2024	SO ₂ (µg/m ³)	Max	7.6	7.6	8.4	8.4	7.4	7.2
		Min	6.4	6.2	6.6	6.4	6.3	6.1
		Avg	6.89	6.84	7.22	7.29	6.84	6.67
July-2024	SO ₂ (µg/m ³)	Max	7.4	7.5	7.9	7.5	7.4	7.3
		Min	6.2	6.1	6.2	6.1	6.1	6.1
		Avg	6.84	6.76	7.50	6.82	6.85	6.65
August-2024	SO ₂ (µg/m ³)	Max	7.9	7.6	8.4	8.2	7.8	7.7
		Min	6.1	6.1	6.5	6.4	6.3	6.1
		Avg	7.02	6.97	7.38	7.18	6.98	6.79
September-2024	SO ₂ (µg/m ³)	Max	7.4	7.8	8.7	7.9	7.9	7.4
		Min	6.2	6.2	6.4	6.3	6.2	6.1
		Avg	6.89	6.98	7.52	6.98	7.00	6.77
Oxides of Nitrogen (NOx)								
April-2024	NOx (µg/m ³)	Max	27.1	24.5	33.1	31.8	26.9	22.9
		Min	13.6	12.9	18.6	15.4	12.4	12.6
		Avg	20.67	19.03	24.14	22.89	20.05	17.88
May-2024	NOx (µg/m ³)	Max	24.6	23.2	33.2	32.1	23.8	21.5
		Min	13.8	12.7	24.3	16.5	12.8	13.8
		Avg	20.52	18.12	28.31	23.44	18.21	16.67
June-2024	NOx (µg/m ³)	Max	25.8	26.5	32.1	30.5	26.8	22.2
		Min	12.6	14.3	18.4	12.9	13.8	12.1
		Avg	19.13	18.87	24.03	22.29	19.95	16.25
July-2024	NOx (µg/m ³)	Max	26.7	24.6	30.1	28.1	22.8	23.9
		Min	12.6	12.8	13.9	12.7	12.1	12.4
		Avg	19.67	18.26	21.35	20.01	17.48	17.11
August-2024	NOx (µg/m ³)	Max	25.6	24.2	33.8	29.4	24.5	23.6
		Min	14.6	14.3	15.2	16.1	12.6	12.1
		Avg	20.02	18.62	23.84	21.42	19.30	17.47
September-2024	NOx (µg/m ³)	Max	26.2	24.6	32.1	27.6	25.8	23.5
		Min	12.5	12.1	18.9	13.7	12.7	14.7
		Avg	17.83	20.80	23.92	20.18	18.32	18.42

Prepared By -



A. K. Rathi
Checked By-

Mitra S. K. Private Limited

Building No. 05, Unit No- 230, Bhumi World Industrial Park,
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Doc No: MSK/JEN-10011



Carbon-Monoxide (CO)

MONTH	PARAMETERS		COLONY	KANAKA PRASAD	JETTY	BMH	DOSINGA	BHITARKANIKA
April-2024	CO (mg/m ³)	Max	0.69	0.66	0.78	0.79	0.65	0.62
		Min	0.40	0.40	0.60	0.44	0.40	0.40
		Avg	0.55	0.51	0.69	0.60	0.52	0.50
May-2024	CO (mg/m ³)	Max	0.65	0.66	0.77	0.77	0.77	0.62
		Min	0.42	0.34	0.48	0.49	0.40	0.39
		Avg	0.54	0.49	0.66	0.61	0.59	0.47
June-2024	CO (mg/m ³)	Max	0.62	0.75	0.75	0.77	0.64	0.62
		Min	0.40	0.40	0.55	0.49	0.40	0.40
		Avg	0.52	0.57	0.63	0.62	0.53	0.50
July-2024	CO (mg/m ³)	Max	0.66	0.56	0.74	0.66	0.66	0.67
		Min	0.47	0.37	0.41	0.40	0.47	0.50
		Avg	0.55	0.47	0.60	0.55	0.55	0.60
August-2024	CO (mg/m ³)	Max	0.64	0.66	0.78	0.72	0.65	0.60
		Min	0.44	0.45	0.54	0.54	0.40	0.40
		Avg	0.53	0.53	0.67	0.62	0.50	0.49
September-2024	CO (mg/m ³)	Max	0.64	0.66	0.75	0.75	0.69	0.64
		Min	0.40	0.40	0.58	0.49	0.40	0.45
		Avg	0.44	0.53	0.67	0.61	0.52	0.51

Ammonia (NH₃)

April-2024	NH ₃ (µg/m ³)	Max	21.8	16.4	21.8	23.4	20.8	19.2
		Min	11.7	14.1	13.8	13.4	11.4	11.3
		Avg	16.44	15.27	18.28	19.12	15.70	15.
May-2024	NH ₃ (µg/m ³)	Max	20.4	18.7	19.6	20.1	19.4	15.2
		Min	12.7	12.9	10.9	12.1	11.4	11.8
		Avg	16.90	16.35	16.18	16.82	14.17	13.60
June-2024	NH ₃ (µg/m ³)	Max	20.1	19.8	19.4	19.4	17.6	16.4
		Min	16.4	11.6	14.8	12.4	11.4	16.4
		Avg	17.92	15.08	17.52	16.26	14.55	14.40
July-2024	NH ₃ (µg/m ³)	Max	20.1	18.6	19.2	18.7	19.9	<10.0
		Min	13.9	11.7	11.9	11.2	12.1	<10.0
		Avg	17.40	15.07	15.30	15.58	15.65	<10.0
August-2024	NH ₃ (µg/m ³)	Max	14.2	17.4	19.2	18.4	13.9	<10.0
		Min	11.8	11.6	11.8	12.6	11.7	<10.0
		Avg	13.00	14.17	15.38	15.50	12.80	<10.0
September-2024	NH ₃ (µg/m ³)	Max	18.4	16.6	19.7	18.7	17.4	<10.0
		Min	12.6	11.5	13.4	12.5	12.1	<10.0
		Avg	15.06	14.05	16.90	15.52	14.75	<10.0

Prepared By -



Checked By-

Mitra S. K. Private Limited


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Doc No MSK/GEN/10/11

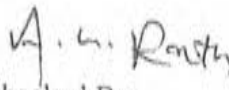


Ozone (O₃)

MONTH	PARAMETERS		COLONY	KANAKA PRASAD	JETTY	BMH	DOSINGA	BHITARKANIKA
April-2024	O ₃ (µg/m ³)	Max	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Min	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Avg	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
May-2024	O ₃ (µg/m ³)	Max	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Min	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Avg	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
June-2024	O ₃ (µg/m ³)	Max	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Min	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Avg	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
July-2024	O ₃ (µg/m ³)	Max	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Min	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Avg	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
August-2024	O ₃ (µg/m ³)	Max	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Min	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Avg	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
September-2024	O ₃ (µg/m ³)	Max	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Min	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
		Avg	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Lead (Pb)								
April-2024	Pb (µg/m ³)	Max	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Min	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Avg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
May-2024	Pb (µg/m ³)	Max	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Min	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Avg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
June-2024	Pb (µg/m ³)	Max	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Min	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Avg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
July-2024	Pb (µg/m ³)	Max	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Min	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Avg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
August-2024	Pb (µg/m ³)	Max	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Min	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Avg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
September-2024	Pb (µg/m ³)	Max	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Min	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		Avg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Prepared By 



Checked By- 

Mitra S. K. Private Limited

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Doc No MSK GEN 19601



Nickel (Ni)

MONTH	PARAMETERS	COLONY	KANAKA PRASAD	JETTY	BMH	DOSINGA	BHITARKANIKA
April-2024	Ni (ng/m ³)	Max	<5.0	<5.0	<5.0	<5.0	<5.0
		Min	<5.0	<5.0	<5.0	<5.0	<5.0
		Avg	<5.0	<5.0	<5.0	<5.0	<5.0
May-2024	Ni (ng/m ³)	Max	<5.0	<5.0	<5.0	<5.0	<5.0
		Min	<5.0	<5.0	<5.0	<5.0	<5.0
		Avg	<5.0	<5.0	<5.0	<5.0	<5.0
June-2024	Ni (ng/m ³)	Max	<5.0	<5.0	<5.0	<5.0	<5.0
		Min	<5.0	<5.0	<5.0	<5.0	<5.0
		Avg	<5.0	<5.0	<5.0	<5.0	<5.0
July-2024	Ni (ng/m ³)	Max	<5.0	<5.0	<5.0	<5.0	<5.0
		Min	<5.0	<5.0	<5.0	<5.0	<5.0
		Avg	<5.0	<5.0	<5.0	<5.0	<5.0
August-2024	Ni (ng/m ³)	Max	<5.0	<5.0	<5.0	<5.0	<5.0
		Min	<5.0	<5.0	<5.0	<5.0	<5.0
		Avg	<5.0	<5.0	<5.0	<5.0	<5.0
September-2024	Ni (ng/m ³)	Max	<5.0	<5.0	<5.0	<5.0	<5.0
		Min	<5.0	<5.0	<5.0	<5.0	<5.0
		Avg	<5.0	<5.0	<5.0	<5.0	<5.0

Arsenic (As)

April-2024	As (ng/m ³)	Max	<1.0	<1.0	<1.0	<1.0	<1.0
		Min	<1.0	<1.0	<1.0	<1.0	<1.0
		Avg	<1.0	<1.0	<1.0	<1.0	<1.0
May-2024	As (ng/m ³)	Max	<1.0	<1.0	<1.0	<1.0	<1.0
		Min	<1.0	<1.0	<1.0	<1.0	<1.0
		Avg	<1.0	<1.0	<1.0	<1.0	<1.0
June-2024	As (ng/m ³)	Max	<1.0	<1.0	<1.0	<1.0	<1.0
		Min	<1.0	<1.0	<1.0	<1.0	<1.0
		Avg	<1.0	<1.0	<1.0	<1.0	<1.0
July-2024	As (ng/m ³)	Max	<1.0	<1.0	<1.0	<1.0	<1.0
		Min	<1.0	<1.0	<1.0	<1.0	<1.0
		Avg	<1.0	<1.0	<1.0	<1.0	<1.0
August-2024	As (ng/m ³)	Max	<1.0	<1.0	<1.0	<1.0	<1.0
		Min	<1.0	<1.0	<1.0	<1.0	<1.0
		Avg	<1.0	<1.0	<1.0	<1.0	<1.0
September-2024	As (ng/m ³)	Max	<1.0	<1.0	<1.0	<1.0	<1.0
		Min	<1.0	<1.0	<1.0	<1.0	<1.0
		Avg	<1.0	<1.0	<1.0	<1.0	<1.0

Prepared By - *J*



A. K. Rathi
Checked By-

Mitra S. K. Private Limited


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Doc No. MSK/GEN/19/01

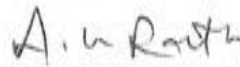


Benzene (C₆H₆)

MONTH	PARAMETERS		COLONY	KANAKA PRASAD	JETTY	BMH	DOSINGA	BHITARKANIKA
April-2024	C ₆ H ₆ (µg/m ³)	Max	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Min	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Avg	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
May-2024	C ₆ H ₆ (µg/m ³)	Max	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Min	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Avg	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
June-2024	C ₆ H ₆ (µg/m ³)	Max	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Min	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Avg	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
July-2024	C ₆ H ₆ (µg/m ³)	Max	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Min	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Avg	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
August-2024	C ₆ H ₆ (µg/m ³)	Max	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Min	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Avg	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
September-2024	C ₆ H ₆ (µg/m ³)	Max	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Min	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
		Avg	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
Benzo Pyrene (BaP)								
April-2024	Bap (ng/m ³)	Max	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Min	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Avg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
May-2024	Bap (ng/m ³)	Max	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Min	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Avg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
June-2024	Bap (ng/m ³)	Max	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Min	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Avg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
July-2024	Bap (ng/m ³)	Max	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Min	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Avg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
August-2024	Bap (ng/m ³)	Max	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Min	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Avg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
September-2024	Bap (ng/m ³)	Max	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Min	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		Avg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Prepared By 



Checked By- 

Annexure-IB

Mitra S. K. Private Limited

Building No. D5, Unit No- 230, Bhumi World Industrial Park,
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**MARINE WATER QUALITY MONITORING REPORT**

June-2024

Parameters	Units	S-1	S-2	S-3	S-4	S-5	S-6	S-7
Colour	Hazen	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Odour	----	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Temperature	Deg C	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Turbidity	N.T.U	42.8	84.0	156.0	96.0	92.0	133.0	240.0
pH	----	7.55	6.88	7.30	7.44	7.44	7.50	7.87
Electrical Conductivity	us/cm	16831.0	16051.0	16014.0	26418.0	30431.0	36424.0	33060.0
Salinity	mg/l	6265.0	12900.0	8573.0	19453.0	24806.0	24112.0	22197.0
Total Suspended Solids	mg/l	148.0	180.0	155.0	193.0	145.0	184.0	242.0
Total dissolved solids	mg/l	13560.0	10612.0	12800.0	24942.0	25964.0	27230.0	32607.0
Total Hardness	mg/l	1258.0	1674.0	2266.0	3884.0	4920.0	4594.0	3829.0
Calcium Hardness	mg/l	345.0	376.0	660.0	590.0	780.0	665.0	894.0
Magnesium Hardness	mg/l	1766.0	1421.0	1656.0	3761.0	3581.0	3992.0	2891.0
Chloride (as Cl)	mg/l	7721.0	3644.0	7554.0	15208.0	14487.0	184.0	17246.0
Dissolved Oxygen	mg/l	6.4	6.0	6.2	6.2	5.6	6.2	6.2
Biochemical Oxygen Demand (3 days at 27°C)	mg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chemical Oxygen Demand (COD)	mg/l	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Oil & Grease	mg/l	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Dissolved phosphates (as PO ₄)	mg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Sulphate (as SO ₄)	mg/l	675.0	690.0	670.0	1240.0	1528.0	1290.0	1406.0
Nitrite (as NO ₂)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (as NO ₃)	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ammonical Nitrogen (as NH ₃ -N)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Nitrogen	mg/l	<0.3	<0.3	6.0	<0.3	2.8	<0.3	<0.3
Total Chromium	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexavalent chromium (as Cr ⁺⁶)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Cadmium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Floating material	mg/l	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Petroleum Hydrocarbon	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

S.K. Mohanty
Prepared By -



A. K. Patil
Checked By -

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September-2024

Parameters	Units	S-1	S-2	S-3	S-4	S-5	S-6	S-7
Colour	Hazen	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Odour	---	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Temperature	Deg. C	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Turbidity	N.T.U	45.2	88.0	158	98.0	96.0	139.0	246.0
pH	---	7.66	6.75	7.78	7.29	7.19	7.48	7.80
Electrical Conductivity	us/cm	17201.0	17261.0	16204.0	27268.0	31861.0	37524.0	33250.0
Salinity	mg/l	6385.0	13120.0	8694.0	19863.0	25516.0	22062.0	22491.0
Total Suspended Solids	mg/l	152.0	185.0	160.0	195.0	149.0	188.0	248.0
Total dissolved solids	mg/l	14260.0	11592.0	12966.0	24866.0	26024.0	27480.0	32917.0
Total Hardness	mg/l	1278.0	1874.0	2326.0	3924.0	4870.0	4579.0	3719.0
Calcium Hardness	mg/l	365.0	380.0	658.0	592.0	786.0	660.0	890.0
Magnesium Hardness	mg/l	1678.0	1456.0	1619.0	37850.0	3491.0	3974.0	2701.0
Chloride (as Cl)	mg/l	7844.0	4504.0	7508.0	15098.0	14617.0	180.0	17626.0
Dissolved Oxygen	mg/l	6.2	6.2	6.4	6.4	5.8	6.6	6.4
Biochemical Oxygen Demand (3 days at 27°C)	mg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chemical Oxygen Demand (COD)	mg/l	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Oil & Grease	mg/l	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Dissolved phosphates (as PO ₄)	mg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Sulphate (as SO ₄)	mg/l	680.0	696.0	676.0	1248.0	1488.0	1270.0	1424.0
Nitrite (as NO ₂)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (as NO ₃)	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ammonical Nitrogen (as NH ₃ -N)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Nitrogen	mg/l	<0.3	<0.3	6.0	<0.3	2.8	<0.3	<0.3
Total Chromium	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexavalent chromium (as Cr ⁺⁶)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Cadmium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Floating material	mg/l	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Petroleum Hydrocarbon	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

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Prepared By -



A. W. Rathi
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GROUND WATER QUALITY MONITORING REPORT

April-2024

Parameters	Units	TOWNSHIP	WTP	RUNNING ROOM
pH (at 26° C)	---	7.87	7.80	7.83
Sulphate (as SO ₄)	mg/l	38.0	42.0	46.0
Calcium (as Ca)	mg/l	34.0	39.0	44.0
Arsenic (as As)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Lead (as Pb)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Zinc (as Zn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Copper (as Cu)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Mercury (as Hg)	mg/l	BDL(DL:0.0002)	BDL(DL:0.0002)	BDL(DL:0.0002)
Cadmium (as Cd)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Mineral Oil	mg/l	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
Fluoride (as F)	mg/l	BDL(DL:0.2)	BDL(DL:0.2)	BDL(DL:0.2)
Colour	Hazen	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Odour	----	Agreeable	Agreeable	Agreeable
Turbidity	N.T.U	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Residual free Chlorine	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Iron (as Fe)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Chloride (as Cl)	mg/l	71.0	77.0	69.0
Total Dissolved Solids	mg/l	392.0	410.0	402.0
Alkalinity (as CaCO ₃)	mg/l	172.0	188.0	184.0
Aluminium (as Al)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Magnesium (as Mg)	mg/l	29.0	23.0	25.0
Total Hardness	mg/l	184.0	172.0	177.0
Boron (as B)	mg/l	BDL(DL:0.3)	BDL(DL:0.3)	BDL(DL:0.3)
Manganese (as Mn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Nitrate (as NO ₃)	mg/l	BDL(DL:0.4)	BDL(DL:0.4)	BDL(DL:0.4)
Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Selenium (as Se)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Total Chromium	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Silver (as Ag)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Barium (as Ba)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Sulphide (as H ₂ S)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Ammonia (as total ammonia-N)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Chloramines	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Nickel (as Ni)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Cyanide (as CN)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Anionic Detergents (as MBAS)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Polynuclear Aromatic Hydrocarbons(as PAH)	mg/l	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)
Polychlorinated Biphenyls (PCB)	mg/l	BDL(DL:0.0005)	BDL(DL:0.0005)	BDL(DL:0.0005)
Salinity	mg/l	44.0	44.0	40.0
E. Coli	/100 ml	Not Detected	Not Detected	Not Detected
Total Coliform Organism	/100 ml	Not Detected	Not Detected	Not Detected

S.K. Mohanty

Prepared By –



A. W. Ranth

Checked By-

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May-2024

Parameters	Units	TOWNSHIP	WTP	RUNNING ROOM
pH (at 26° C)	---	7.83	7.85	7.86
Sulphate (as SO ₄)	mg/l	36.0	38.0	38.0
Calcium (as Ca)	mg/l	19.0	32.0	24.0
Arsenic (as As)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Lead (as Pb)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Zinc (as Zn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Copper (as Cu)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Mercury (as Hg)	mg/l	BDL(DL:0.0002)	BDL(DL:0.0002)	BDL(DL:0.0002)
Cadmium (as Cd)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Mineral Oil	mg/l	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
Fluoride (as F)	mg/l	BDL(DL:0.2)	BDL(DL:0.2)	BDL(DL:0.2)
Colour	Hazen	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Odour	---	Agreeable	Agreeable	Agreeable
Turbidity	N.T.U	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Residual free Chlorine	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Iron (as Fe)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Chloride (as Cl)	mg/l	75.0	80.0	69.0
Total Dissolved Solids	mg/l	548.0	546.0	556.0
Alkalinity (as CaCO ₃)	mg/l	358.0	366.0	358.0
Aluminium (as Al)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Magnesium (as Mg)	mg/l	26.0	30.0	36.0
Total Hardness	mg/l	154.0	206.0	210.0
Boron (as B)	mg/l	BDL(DL:0.3)	BDL(DL:0.3)	BDL(DL:0.3)
Manganese (as Mn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Nitrate (as NO ₃)	mg/l	BDL(DL:0.4)	BDL(DL:0.4)	BDL(DL:0.4)
Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Selenium (as Se)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Total Chromium	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Silver (as Ag)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Barium (as Ba)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Sulphide (as H ₂ S)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Ammonia (as total ammonia-N)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Chloramines	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Nickel (as Ni)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Cyanide (as CN)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Anionic Detergents (as MBAS)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Polynuclear Aromatic Hydrocarbons(as PAH)	mg/l	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)
Polychlorinated Biphenyls (PCB)	mg/l	BDL(DL:0.0005)	BDL(DL:0.0005)	BDL(DL:0.0005)
Salinity	mg/l	528.0	515.0	518.0
E. Coli	/100 ml	Not Detected	Not Detected	Not Detected
Total Coliform Organism	/100 ml	Not Detected	Not Detected	Not Detected

Prepared By -

S.K. Mohanty

Checked By-

M. L. Rath



Mitra S. K. Private Limited

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June-2024

Parameters	Units	TOWNSHIP	WTP	RUNNING ROOM
pH (at 26° C)	---	7.75	7.66	7.28
Sulphate (as SO ₄)	mg/l	39.0	40.0	42.7
Calcium (as Ca)	mg/l	44.0	52.0	51.3
Arsenic (as As)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Lead (as Pb)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Zinc (as Zn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Copper (as Cu)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Mercury (as Hg)	mg/l	BDL(DL:0.0002)	BDL(DL:0.0002)	BDL(DL:0.0002)
Cadmium (as Cd)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Mineral Oil	mg/l	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
Fluoride (as F)	mg/l	BDL(DL:0.2)	BDL(DL:0.2)	BDL(DL:0.2)
Colour	Hazen	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Odour	----	Agreeable	Agreeable	Agreeable
Turbidity	N.T.U	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Residual free Chlorine	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Iron (as Fe)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Chloride (as Cl)	mg/l	90.0	92.0	70.6
Total Dissolved Solids	mg/l	394.0	402.0	414.0
Alkalinity (as CaCO ₃)	mg/l	168.0	178.0	182.0
Aluminium (as Al)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Magnesium (as Mg)	mg/l	26.0	22	24.0
Total Hardness	mg/l	186.0	184.0	192.0
Boron (as B)	mg/l	BDL(DL:0.3)	BDL(DL:0.3)	BDL(DL:0.3)
Manganese (as Mn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Nitrate (as NO ₃)	mg/l	BDL(DL:0.4)	BDL(DL:0.4)	BDL(DL:0.4)
Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Selenium (as Se)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Total Chromium	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Silver (as Ag)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Barium (as Ba)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Sulphide (as H ₂ S)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Ammonia (as total ammonia-N)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Chloramines	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Nickel (as Ni)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Cyanide (as CN)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Anionic Detergents (as MBAS)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Polynuclear Aromatic Hydrocarbons(as PAH)	mg/l	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)
Polychlorinated Biphenyls (PCB)	mg/l	BDL(DL:0.0005)	BDL(DL:0.0005)	BDL(DL:0.0005)
Salinity	mg/l	52.0	44.0	50.0
E. Coli	/100 ml	Not Detected	Not Detected	Not Detected
Total Coliform Organism	/100 ml	Not Detected	Not Detected	Not Detected

S.K. Mohanty
 Prepared By -



A. L. Rathi
 Checked By-

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July-2024

Parameters	Units	TOWNSHIP	WTP	RUNNING ROOM
pH (at 26° C)	---	7.01	8.10	7.95
Sulphate (as SO ₄)	mg/l	22.0	16.0	16.0
Calcium (as Ca)	mg/l	41.0	41.0	36.0
Arsenic (as As)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Lead (as Pb)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Zinc (as Zn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Copper (as Cu)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Mercury (as Hg)	mg/l	BDL(DL:0.0002)	BDL(DL:0.0002)	BDL(DL:0.0002)
Cadmium (as Cd)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Mineral Oil	mg/l	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
Fluoride (as F)	mg/l	BDL(DL:0.2)	BDL(DL:0.2)	BDL(DL:0.2)
Colour	Hazen	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Odour	----	Agreeable	Agreeable	Agreeable
Turbidity	N.T.U	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Residual free Chlorine	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Iron (as Fe)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Chloride (as Cl)	mg/l	63.0	66.0	69.0
Total Dissolved Solids	mg/l	390.0	420.0	398.0
Alkalinity (as CaCO ₃)	mg/l	178.0	168.0	192.0
Aluminium (as Al)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Magnesium (as Mg)	mg/l	21.0	24.0	26.0
Total Hardness	mg/l	196.0	184.0	165.0
Boron (as B)	mg/l	BDL(DL:0.3)	BDL(DL:0.3)	BDL(DL:0.3)
Manganese (as Mn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Nitrate (as NO ₃)	mg/l	BDL(DL:0.4)	BDL(DL:0.4)	BDL(DL:0.4)
Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Selenium (as Se)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Total Chromium	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Silver (as Ag)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Barium (as Ba)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Sulphide (as H ₂ S)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Ammonia (as total ammonia-N)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Chloramines	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Nickel (as Ni)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Cyanide (as CN)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Anionic Detergents (as MBAS)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Polynuclear Aromatic Hydrocarbons(as PAH)	mg/l	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)
Polychlorinated Biphenyls (PCB)	mg/l	BDL(DL:0.0005)	BDL(DL:0.0005)	BDL(DL:0.0005)
Salinity	mg/l	64.0	48.0	57.0
E. Coli	/100 ml	Not Detected	Not Detected	Not Detected
Total Coliform Organism	/100 ml	Not Detected	Not Detected	Not Detected

S.K. Mohanty

Prepared By -

A. L. Rout
Checked By-

Mitra S. K. Private Limited

Building No. D5, Unit No- 230, Bhumi World Industrial Park,
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August-2024

Parameters	Units	TOWNSHIP	WTP	RUNNING ROOM
pH (at 26° C)	---	7.21	7.42	7.92
Sulphate (as SO ₄)	mg/l	24.0	18.0	18.0
Calcium (as Ca)	mg/l	43.0	40.0	34.0
Arsenic (as As)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Lead (as Pb)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Zinc (as Zn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Copper (as Cu)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Mercury (as Hg)	mg/l	BDL(DL:0.0002)	BDL(DL:0.0002)	BDL(DL:0.0002)
Cadmium (as Cd)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Mineral Oil	mg/l	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
Fluoride (as F)	mg/l	BDL(DL:0.2)	BDL(DL:0.2)	BDL(DL:0.2)
Colour	Hazen	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Odour	---	Agreeable	Agreeable	Agreeable
Turbidity	N.T.U	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Residual free Chlorine	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Iron (as Fe)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Chloride (as Cl)	mg/l	64.0	72.0	76.0
Total Dissolved Solids	mg/l	410.0	460.0	390.0
Alkalinity (as CaCO ₃)	mg/l	196.0	180.0	168.0
Aluminium (as Al)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Magnesium (as Mg)	mg/l	23.0	25.0	28.0
Total Hardness	mg/l	170.0	178.0	185.0
Boron (as B)	mg/l	BDL(DL:0.3)	BDL(DL:0.3)	BDL(DL:0.3)
Manganese (as Mn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Nitrate (as NO ₃)	mg/l	BDL(DL:0.4)	BDL(DL:0.4)	BDL(DL:0.4)
Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Selenium (as Se)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Total Chromium	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Silver (as Ag)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Barium (as Ba)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Sulphide (as H ₂ S)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Ammonia (as total ammonia-N)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Chloramines	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Nickel (as Ni)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Cyanide (as CN)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Anionic Detergents (as MBAS)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Polynuclear Aromatic Hydrocarbons(as PAH)	mg/l	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)
Polychlorinated Biphenyls (PCB)	mg/l	BDL(DL:0.0005)	BDL(DL:0.0005)	BDL(DL:0.0005)
Salinity	mg/l	72.0	56.0	59.0
E. Coli	/100 ml	Not Detected	Not Detected	Not Detected
Total Coliform Organism	/100 ml	Not Detected	Not Detected	Not Detected

S.K. Mohanty
 Prepared By -



A.L. Rout
 Checked By-

Mitra S. K. Private Limited

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September-2024

Parameters	Units	TOWNSHIP	WTP	RUNNING ROOM
pH (at 26° C)	---	7.46	7.52	7.88
Sulphate (as SO ₄)	mg/l	40.0	39.0	45.1
Calcium (as Ca)	mg/l	48.0	46.0	54.5
Arsenic (as As)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Lead (as Pb)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Zinc (as Zn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Copper (as Cu)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Mercury (as Hg)	mg/l	BDL(DL:0.0002)	BDL(DL:0.0002)	BDL(DL:0.0002)
Cadmium (as Cd)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Mineral Oil	mg/l	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
Fluoride (as F)	mg/l	BDL(DL:0.2)	BDL(DL:0.2)	BDL(DL:0.2)
Colour	Hazen	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Odour	---	Agreeable	Agreeable	Agreeable
Turbidity	N.T.U	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Residual free Chlorine	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Iron (as Fe)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Chloride (as Cl)	mg/l	140.0	128.0	98.7
Total Dissolved Solids	mg/l	430.0	394.0	289.0
Alkalinity (as CaCO ₃)	mg/l	185.0	190.0	160.0
Aluminium (as Al)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Magnesium (as Mg)	mg/l	27.0	26.0	20.0
Total Hardness	mg/l	182.0	187.0	178.0
Boron (as B)	mg/l	BDL(DL:0.3)	BDL(DL:0.3)	BDL(DL:0.3)
Manganese (as Mn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Nitrate (as NO ₃)	mg/l	BDL(DL:0.4)	BDL(DL:0.4)	BDL(DL:0.4)
Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
Selenium (as Se)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Total Chromium	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Silver (as Ag)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
Barium (as Ba)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Sulphide (as H ₂ S)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Ammonia (as total ammonia-N)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Chloramines	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
Nickel (as Ni)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Cyanide (as CN)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Anionic Detergents (as MBAS)	mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Polynuclear Aromatic Hydrocarbons(as PAH)	mg/l	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)
Polychlorinated Biphenyls (PCB)	mg/l	BDL(DL:0.0005)	BDL(DL:0.0005)	BDL(DL:0.0005)
Salinity	mg/l	60.0	49.0	44.0
E. Coli	/100 ml	Not Detected	Not Detected	Not Detected
Total Coliform Organism	/100 ml	Not Detected	Not Detected	Not Detected

S.K. Mohanty
Prepared By -



A. K. Rout
Checked By-

Mitra S. K. Private Limited

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Doc No: MSK/GEN/1101



SURFACE WATER QUALITY MONITORING REPORT

June-2024

Parameters	Units	S-1	S-2
pH (at 26° C)	Hazen	7.73	7.28
Sulphate (as SO ₄)	----	2000.0	1680.0
Calcium (as Ca)	----	68.0	74.0
Arsenic (as As)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)
Lead (as Pb)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)
Zinc (as Zn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)
Copper (as Cu)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)
Mercury (as Hg)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)
Cadmium (as Cd)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)
Mineral Oil	mg/l	BDL(DL:0.01)	BDL(DL:0.01)
Fluoride (as F)	mg/l	0.82	0.71
Colour	mg/l	BDL(DL:1.0)	BDL(DL:1.0)
Odour	mg/l	Agreeable	Agreeable
Turbidity	mg/l	45.0	54.0
Residual free Chlorine	mg/l	BDL(DL:0.1)	BDL(DL:0.1)
Iron (as Fe)	mg/l	4.2	3.8
Chloride (as Cl)	mg/l	9650.0	9402.0
Total Dissolved Solids	mg/l	17614.0	16058.0
Alkalinity (as CaCO ₃)	mg/l	102.0	108.0
Aluminium (as Al)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)
Magnesium (as Mg)	mg/l	158.0	132.0
Total Hardness (as CaCO ₃)	mg/l	535.0	492.0
Boron (as B)	mg/l	BDL(DL:0.3)	BDL(DL:0.3)
Manganese (as Mn)	mg/l	BDL(DL:0.5)	BDL(DL:0.5)
Nitrate (as NO ₃)	mg/l	4.2	4.7
Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)
Selenium (as Se)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)
Total Chromium (as Cr)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)
Silver (as Ag)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)
Barium (as Ba)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)
Salinity	mg/l	235.0	297.0
Sulphide (as H ₂ S)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)
Ammonia (as total ammonia-N)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)
Chloramines	mg/l	BDL(DL:0.1)	BDL(DL:0.1)
Conductivity	us/cm	22600.0	22000.0
Nickel (as Ni)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)
Cyanide (as CN)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)
Anionic Detergents	mg/l	BDL(DL:0.05)	BDL(DL:0.05)
PAH	mg/l	BDL(DL:0.0001)	BDL(DL:0.0001)
PCB		BDL(DL:0.0005)	BDL(DL:0.0005)

S.K. Mohanty

Prepared By -



A. K. Rath

Checked By-

Mitra S. K. Private Limited

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September-2024

Parameters	Units	S-1	S-2
pH (at 26° C)	Hazen	7.78	7.73
Sulphate (as SO ₄)	----	105.0	45.0
Calcium (as Ca)	----	25.0	38.0
Arsenic (as As)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)
Lead (as Pb)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)
Zinc (as Zn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)
Copper (as Cu)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)
Mercury (as Hg)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)
Cadmium (as Cd)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)
Mineral Oil	mg/l	BDL(DL:0.01)	BDL(DL:0.01)
Fluoride (as F)	mg/l	0.24	0.82
Colour	mg/l	BDL(DL:1.0)	BDL(DL:1.0)
Odour	mg/l	Agreeable	Agreeable
Turbidity	mg/l	94.6	45.5
Residual free Chlorine	mg/l	BDL(DL:0.1)	BDL(DL:0.1)
Iron (as Fe)	mg/l	4.8	0.39
Chloride (as Cl)	mg/l	562.0	415.0
Total Dissolved Solids	mg/l	1470.0	12170.0
Alkalinity (as CaCO ₃)	mg/l	39.0	41.0
Aluminium (as Al)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)
Magnesium (as Mg)	mg/l	44.0	55.0
Total Hardness (as CaCO ₃)	mg/l	243.0	280.0
Boron (as B)	mg/l	BDL(DL:0.3)	BDL(DL:0.3)
Manganese (as Mn)	mg/l	BDL(DL:0.5)	BDL(DL:0.5)
Nitrate (as NO ₃)	mg/l	3.8	5.0
Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)
Selenium (as Se)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)
Total Chromium (as Cr)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)
Silver (as Ag)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)
Barium (as Ba)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)
Salinity	mg/l	280.0	312.0
Sulphide (as H ₂ S)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)
Ammonia (as total ammonia-N)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)
Chloramines	mg/l	BDL(DL:0.1)	BDL(DL:0.1)
Conductivity	us/cm	2480.0	17130.0
Nickel (as Ni)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)
Cyanide (as CN)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)
Anionic Detergents	mg/l	BDL(DL:0.05)	BDL(DL:0.05)
PAH	mg/l	BDL(DL:0.0001)	BDL(DL:0.0001)
PCB		BDL(DL:0.0005)	BDL(DL:0.0005)

S. K. Mohanty
Prepared By –

A. L. Raut
Checked By-



Annexure-IC

Mitra S. K. Private Limited


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Doc No MSK-GRN/19/01

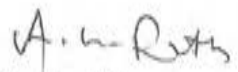


NOISE LEVEL MONITORING REPORT (April- 2024)

LOCATION	DAY TIME (Leq) in dB (A)	NIGHT TIME (Leq) in dB (A)
COLONY	44.1	36.2
KANAKA PRASAD	46.9	39.4
BMH	60.2	51.9
JETTY	70.7	60.2
DOSINGA	43.9	37.8
BHITARKANIKA	40.2	36.9
NOISE LEVEL MONITORING REPORT (May- 2024)		
LOCATION	DAY TIME (Leq) in dB (A)	NIGHT TIME (Leq) in dB (A)
COLONY	46.4	39.1
KANAKA PRASAD	48.2	40.6
BMH	64.6	52.8
JETTY	72.5	61.4
DOSINGA	44.2	38.1
BHITARKANIKA	42.9	37.2
NOISE LEVEL MONITORING REPORT (June- 2024)		
LOCATION	DAY TIME (Leq) in dB (A)	NIGHT TIME (Leq) in dB (A)
COLONY	50.8	36.9
KANAKA PRASAD	48.4	38.4
BMH	67.9	48.7
JETTY	70.1	53.8
DOSINGA	43.5	39.6
BHITARKANIKA	41.4	36.2

Prepared By 




Checked By-

Mitra S. K. Private Limited


Building No.D5, Unit No- 230, Bhumi World Industrial Park,
Mumbai, Nashik Highway, Pimpas Village, Bhiwandi, Near
Kalyan Bhiwandi Bypass,Tal - Bhiwandi
Dist. Thane- 421302.
Tel. : 0252 2672352.
Email: mumballab@mitrask.com
Web : www.mitrask.com

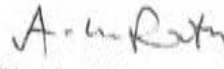
Doc No- MSK/GEN/1901



July -2024

LOCATION	DAY TIME (Leq) in dB (A)	NIGHT TIME (Leq) in dB (A)
COLONY	42.8	37.6
KANAKA PRASAD	47.5	39.8
BMH	60.9	49.4
JETTY	69.4	58.7
DOSINGA	45.6	36.8
BHITARKANIKA	40.1	37.7
NOISE LEVEL MONITORING REPORT (August- 2024)		
LOCATION	DAY TIME (Leq) in dB (A)	NIGHT TIME (Leq) in dB (A)
COLONY	43.4	38.1
KANAKA PRASAD	46.9	39.2
BMH	62.4	47.8
JETTY	67.2	56.1
DOSINGA	44.8	37.8
BHITARKANIKA	41.7	36.1
NOISE LEVEL MONITORING REPORT (September- 2024)		
LOCATION	DAY TIME (Leq) in dB (A)	NIGHT TIME (Leq) in dB (A)
COLONY	49.7	37.5
KANAKA PRASAD	46.2	36.9
BMH	64.8	45.3
JETTY	72.6	51.4
DOSINGA	42.2	39.9
BHITARKANIKA	40.9	36.4

Prepared By - 


Checked By-



Annexure-ID

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918



TEST REPORT

Name & Address of the Customer :
THE DHAMRA PORT COMPANY LIMITED
AT : DOSINGA, PO : DHAMRA
DIST : BHADRAK, PIN : 756171 ODISHA

Report No. : BBS/407
Date : 06.05.2024
Sample No. : MSKGL/ED/2023-24/04/00810
Sample Description : VOC Monitoring

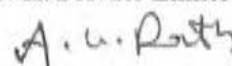
ANALYSIS

<u>Sl. No</u>	<u>Date of Monitoring</u>	<u>Sampling Location</u>	<u>Method of Analysis</u>	<u>Parameter</u>	<u>Result</u>
1.	25.04.2024	Jetty	NIOSH-1501	Volatile Organic Compound (VOC in mg/m ³)	<0.008
2.	25.04.2024	Wagon Tippler			<0.008
3.	27.04.2024	Near Silo			<0.008
4.	27.04.2024	Transfer Point			<0.008
5.	28.04.2024	BMH Workshop			<0.008
6.	28.04.2024	Steel Yard			<0.008
7.	29.04.2024	FCC Shed			<0.008
8.	29.04.2024	SS 6 Office			<0.008

Report Prepared by: 



For Mitra S. K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1958PTC023037]

T : (0674) 2360917, 9777450189
F : (0674) 2362918




TEST REPORT

Name & Address of the Customer :
THE DHAMRA PORT COMPANY LIMITED
AT : DOSINGA, PO : DHAMRA
DIST : BHADRAK, PIN : 756171 ODISHA

Report No. : BBS/407
Date : 05.06.2024
Sample No. : MSKGL/ED/2024-25/05/00800
Sample Description : VOC Monitoring

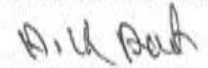
ANALYSIS

<u>Sl. No</u>	<u>Date of Monitoring</u>	<u>Sampling Location</u>	<u>Method of Analysis</u>	<u>Parameter</u>	<u>Result</u>
1.	01.05.2024	Jetty	NIOSH-1501	Volatile Organic Compound (VOC in mg/m ³)	<0.008
2.	01.05.2024	Wagon Tippler			<0.008
3.	02.05.2024	Near Silo			<0.008
4.	02.05.2024	Transfer Point			<0.008
5.	04.05.2024	BMH Workshop			<0.008
6.	04.05.2024	Steel Yard			<0.008
7.	05.05.2024	FCC Shed			<0.008
8.	05.05.2024	SS 6 Office			<0.008

Report Prepared by: 



For Mitra S. K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]

T : (0674) 2360917, 9777450189
F : (0674) 2362918



TEST REPORT

Name & Address of the Customer :
THE DHAMRA PORT COMPANY LIMITED
AT : DOSINGA, PO : DHAMRA
DIST : BHADRAK, PIN : 756171 ODISHA

Report No. : BBS/407
Date : 10.07.2024
Sample No. : MSKGL/ED/2024-25/06/00200
Sample Description : VOC Monitoring

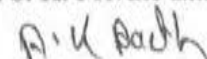
ANALYSIS

<u>Sl. No</u>	<u>Date of Monitoring</u>	<u>Sampling Location</u>	<u>Method of Analysis</u>	<u>Parameter</u>	<u>Result</u>
1.	17.06.2024	Jetty	NIOSH-1501	Volatile Organic Compound (VOC in mg/m ³)	<0.008
2.	17.06.2024	Wagon Tippler			<0.008
3.	18.06.2024	Near Silo			<0.008
4.	18.06.2024	Transfer Point			<0.008
5.	19.06.2024	BMH Workshop			<0.008
6.	19.06.2024	Steel Yard			<0.008
7.	20.06.2024	FCC Shed			<0.008
8.	20.06.2024	SS 6 Office			<0.008

Report Prepared by: 



For Mitra S. K. Private Limited


Authorized Signatory

Mitra S. K. Private Limited

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[CIN: U51909WB1956PTC023037]
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F : (0674) 2362918



TEST REPORT

Name & Address of the Customer :
THE DHAMRA PORT COMPANY LIMITED
AT : DOSINGA, PO : DHAMRA
DIST : BHADRAK, PIN : 756171 ODISHA

Report No. : BBS/407
Date : 02.08.2024
Sample No. : MSKGL/ED/2024-25/07/00700
Sample Description : VOC Monitoring

ANALYSIS

<u>Sl. No</u>	<u>Date of Monitoring</u>	<u>Sampling Location</u>	<u>Method of Analysis</u>	<u>Parameter</u>	<u>Result</u>
1.	02.07.2024	Jetty	NIOSH-1501	Volatile Organic Compound (VOC in mg/m ³)	<0.008
2.	02.07.2024	Wagon Tippler			<0.008
3.	04.07.2024	Near Silo			<0.008
4.	04.07.2024	Transfer Point			<0.008
5.	08.07.2024	BMH Workshop			<0.008
6.	08.07.2024	Steel Yard			<0.008
7.	09.07.2024	FCC Shed			<0.008
8.	09.07.2024	SS 6 Office			<0.008

Report Prepared by: 

For Mitra S. K. Private Limited


Authorized Signatory



Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
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Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918



TEST REPORT

Name & Address of the Customer :
THE DHAMRA PORT COMPANY LIMITED
AT : DOSINGA, PO : DHAMRA
DIST : BHADRAK, PIN : 756171 ODISHA

Report No. : BBS/407
Date : 05.09.2024
Sample No. : MSKGL/ED/2024-25/08/00700
Sample Description : VOC Monitoring

ANALYSIS

<u>Sl. No</u>	<u>Date of Monitoring</u>	<u>Sampling Location</u>	<u>Method of Analysis</u>	<u>Parameter</u>	<u>Result</u>
1.	01.08.2024	Jetty	NIOSH-1501	Volatile Organic Compound (VOC in mg/m ³)	<0.008
2.	01.08.2024	Wagon Tippler			<0.008
3.	03.08.2024	Near Silo			<0.008
4.	03.08.2024	Transfer Point			<0.008
5.	04.08.2024	BMH Workshop			<0.008
6.	04.08.2024	Steel Yard			<0.008
7.	05.08.2024	FCC Shed			<0.008
8.	05.08.2024	SS 6 Office			<0.008

Report Prepared by:



For Mitra S. K. Private Limited

Authorized Signatory

Mitra S. K. Private Limited

Plot No-687/2428, Ekamra Villa Square,
Jaydev Vihar, 1st Floor, IRC Village,
Bhubaneswar, Khordha, Odisha-751015
[CIN: U51909WB1956PTC023037]
T : (0674) 2360917, 9777450189
F : (0674) 2362918




TEST REPORT

Name & Address of the Customer :
THE DHAMRA PORT COMPANY LIMITED
AT : DOSINGA, PO : DHAMRA
DIST : BHADRAK, PIN : 756171 ODISHA

Report No. : BBS/407
Date : 05.10.2024
Sample No. : MSKGL/ED/2024-25/09/00500
Sample Description : VOC Monitoring

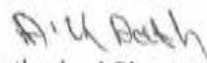
ANALYSIS

<u>Sl. No</u>	<u>Date of Monitoring</u>	<u>Sampling Location</u>	<u>Method of Analysis</u>	<u>Parameter</u>	<u>Result</u>
1.	17.09.2024	Jetty	NIOSH-1501	Volatile Organic Compound (VOC in mg/m ³)	<0.008
2.	17.09.2024	Wagon Tippler			<0.008
3.	18.09.2024	Near Silo			<0.008
4.	18.09.2024	Transfer Point			<0.008
5.	19.09.2024	BMH Workshop			<0.008
6.	19.09.2024	Steel Yard			<0.008
7.	21.09.2024	FCC Shed			<0.008
8.	21.09.2024	SS 6 Office			<0.008

Report Prepared by: 



For Mitra S. K. Private Limited


Authorized Signatory

Annexure-IE

Mitra S. K. Private Limited

Building No.D5, Unit No- 230, Bhumi World Industrial Park,
Mumbai, Nashik Highway, Pimpas Village, Bhiwandi, Near
Kalyan Bhiwandi Bypass, Tal - Bhiwandi
Dist. Thane- 421302.
Tel. : 0252 2672352.
Email: mumbaiab@mitrask.com
Web : www.mitrask.com

STP WATER QUALITY MONITORING REPORT

April - 2024

Parameters	Units	15 KLD (Inlet)	15 KLD (Outlet)	25 KLD (Inlet)	25 KLD (Outlet)
pH	----	7.32	7.94	7.30	7.76
Total Suspended Solids	mg/l	50.8	6.1	41.0	4.9
BOD for 3 days at 27°C	mg/l	26.0	7.8	32.0	3.4
COD	mg/l	91.0	36.0	121.0	15.0
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	16.0	0.26	16.0	0.97
Total Nitrogen	mg/l	12.8	1.9	6.1	0.38
Faecal Coliform	MPN/100	1400.0	280.0	1190.0	180.0
Parameters	Units	140 KLD (Inlet)	140 KLD (Outlet)	150 KLD (Inlet)	150 KLD (Outlet)
pH	----	7.32	8.03	7.55	7.73
Total Suspended Solids	mg/l	39.0	10.7	96.0	6.6
BOD for 3 days at 27°C	mg/l	21.0	4.5	36.0	2.5
COD	mg/l	71.0	22.0	152.0	13.0
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	10.6	<0.1	27.6	2.9
Total Nitrogen	mg/l	4.2	0.39	6.7	0.47
Faecal Coliform	MPN/100	2180.0	130.0	2780.0	98.0

S.K. Mohanty

Prepared By -



A. K. Routh

Checked By-

Mitra S. K. Private Limited

Building No D5, Unit No- 230, Bhumi World Industrial Park,
Mumbai, Nashik Highway, Pimpas Village, Bhiwandi, Near
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Dist. Thane- 421302.
Tel. : 0252 2872352.
Email: mumbaiab@mitrask.com
Web : www.mitrask.com

May - 2024

Parameters	Units	15 KLD (Inlet)	15 KLD (Outlet)	25 KLD (Inlet)	25 KLD (Outlet)
pH	----	7.53	7.48	7.40	7.53
Total Suspended Solids	mg/l	132.0	8.4	126.0	13.0
BOD for 3 days at 27°C	mg/l	38.0	6.9	90.0	3.6
COD	mg/l	141.0	35.3	282.0	15.0
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	32.0	0.35	31.0	0.20
Total Nitrogen	mg/l	16.4	1.1	7.6	0.46
Faecal Coliform	MPN/100	1380.0	270.0	1200.0	196.0
Parameters	Units	140 KLD (Inlet)	140 KLD (Outlet)	150 KLD (Inlet)	150 KLD (Outlet)
pH	----	7.32	7.63	7.45	7.76
Total Suspended Solids	mg/l	125.0	6.4	285.0	62.0
BOD for 3 days at 27°C	mg/l	124.0	3.6	43.0	11.0
COD	mg/l	333.0	17.0	181.0	50.0
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	31.0	<0.1	65.0	2.1
Total Nitrogen	mg/l	7.9	0.24	12.6	0.49
Faecal Coliform	MPN/100	2200.0	150.0	2600.0	97.0

S.K. Mohanty

Prepared By -

A. V. Rasth

Checked By-



Mitra S. K. Private Limited

Building No.D5, Unit No- 230, Bhumi World Industrial Park,
Mumbai, Nashik Highway, Pimpas Village, Bhiwandi Near
Kalyan Bhiwandi Bypass, Tal - Bhiwandi
Dist. Thane- 421302.
Tel. : 0252 2672352.
Email: mumbaiab@mitrask.com
Web : www.mitrask.com

June - 2024

Parameters	Units	15 KLD (Inlet)	15 KLD (Outlet)	25 KLD (Inlet)	25 KLD (Outlet)
pH	----	7.78	8.02	7.47	7.14
Total Suspended Solids	mg/l	91.2	3.2	48.0	16.0
BOD for 3 days at 27°C	mg/l	72.0	8.1	24.0	3.2
COD	mg/l	193.0	26.0	69.0	11.0
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	29.0	0.36	14.0	<0.1
Total Nitrogen	mg/l	40.9	1.9	22.0	1.7
Faecal Coliform	MPN/100	2500.0	340.0	1500.0	270.0
Parameters	Units	140 KLD (Inlet)	140 KLD (Outlet)	150 KLD (Inlet)	150 KLD (Outlet)
pH	----	7.52	7.79	7.23	7.46
Total Suspended Solids	mg/l	36.0	2.9	110.0	6.9
BOD for 3 days at 27°C	mg/l	44.0	5.0	46.8	4.8
COD	mg/l	152.0	18.0	95.3	19.0
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	21.0	0.27	29.0	<0.1
Total Nitrogen	mg/l	26.3	1.4	34.0	0.97
Faecal Coliform	MPN/100	1900.0	290.0	2100.0	270.0

S.K. Mohanty

Prepared By -



A. L. Raut
Checked By-

Mitra S. K. Private Limited

Building No.D5, Unit No- 230, Bhumi World Industrial Park,
Mumbai, Nashik Highway, Pimpas Village, Bhiwandi, Near
Kalyan Bhiwandi Bypass, Tal - Bhiwandi
Dist. Thane- 421302.
Tel. : 0252 2672352.
Email: mumbai@mitrask.com
Web : www.mitrask.com



July - 2024

Parameters	Units	15 KLD (Inlet)	15 KLD (Outlet)	25 KLD (Inlet)	25 KLD (Outlet)
pH	----	7.59	7.53	7.69	7.78
Total Suspended Solids	mg/l	50.0	12.0	50.0	10.0
BOD for 3 days at 27°C	mg/l	22.0	8.3	16.0	6.0
COD	mg/l	80.0	36.0	60.0	31.0
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	14.0	0.29	24.0	0.28
Total Nitrogen	mg/l	22.7	1.4	9.4	0.40
Faecal Coliform	MPN/100	1250.0	310.0	1370.0	188.0
Parameters	Units	140 KLD (Inlet)	140 KLD (Outlet)	150 KLD (Inlet)	150 KLD (Outlet)
pH	----	7.43	7.59	7.09	7.29
Total Suspended Solids	mg/l	66.0	8.0	145.0	8.0
BOD for 3 days at 27°C	mg/l	14.0	6.7	54.0	5.4
COD	mg/l	60.0	32.0	200.0	25.0
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	25.0	<0.1	45.0	<0.1
Total Nitrogen	mg/l	8.4	0.32	10.8	0.42
Faecal Coliform	MPN/100	2150.0	170.0	2750.0	110.0

S.K. Mehanty

Prepared By –

A. V. Rastogi

Checked By-



Mitra S. K. Private Limited

Building No.D5, Unit No- 230, Bhumi World Industrial Park,
Mumbai, Nashik Highway, Pimpas Village, Bhiwandi, Near
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Web : www.mitrask.com

August - 2024

Parameters	Units	15 KLD (Inlet)	15 KLD (Outlet)	25 KLD (Inlet)	25 KLD (Outlet)
pH	----	7.84	7.42	7.42	7.87
Total Suspended Solids	mg/l	64.0	<2.5	35.0	<2.5
BOD for 3 days at 27°C	mg/l	7.8	2.4	12.6	<2.0
COD	mg/l	20.0	14.0	65.2	<4.0
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	26.0	0.21	22.7	0.39
Total Nitrogen	mg/l	31.5	1.2	11.8	0.48
Faecal Coliform	MPN/100	1300.0	280.0	1480.0	194.0
Parameters	Units	140 KLD (Inlet)	140 KLD (Outlet)	150 KLD (Inlet)	150 KLD (Outlet)
pH	----	7.89	7.82	7.40	7.79
Total Suspended Solids	mg/l	27.0	<2.5	62.0	4.4
BOD for 3 days at 27°C	mg/l	2.8	<2.0	17.0	2.6
COD	mg/l	14.0	8.0	39.0	12.0
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	17.6	<0.1	38.0	<0.1
Total Nitrogen	mg/l	7.6	0.38	12.5	0.38
Faecal Coliform	MPN/100	1480.0	150.0	2510.0	128.0

S. K. Mohanty

Prepared By -



A. L. Datta
Checked By-

Mitra S. K. Private Limited

Building No.D5, Unit No- 230, Bhumi World Industrial Park,
Mumbai, Nashik Highway, Pimpas Village, Bhiwandi, Near
Kalyan Bhiwandi Bypass, Tal - Bhiwandi
Dist. Thane- 421302.
Tel. : 0252 2672352.
Email: mumbailab@mitrask.com
Web : www.mitrask.com

September - 2024

Parameters	Units	15 KLD (Inlet)	15 KLD (Outlet)	25 KLD (Inlet)	25 KLD (Outlet)
pH	----	7.74	7.40	7.76	7.86
Total Suspended Solids	mg/l	56.2	4.4	32.0	8.3
BOD for 3 days at 27°C	mg/l	32.0	3.2	22.0	<2.0
COD	mg/l	114.0	18.0	114.0	7.8
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	<0.1	<0.1	<0.1	<0.1
Total Nitrogen	mg/l	28.9	2.8	16.8	2.1
Faecal Coliform	MPN/100	2900.0	370.0	1780.0	290.0
Parameters	Units	140 KLD (Inlet)	140 KLD (Outlet)	150 KLD (Inlet)	150 KLD (Outlet)
pH	----	7.43	7.41	7.30	7.23
Total Suspended Solids	mg/l	59.8	7.8	41.8	18.2
BOD for 3 days at 27°C	mg/l	62.0	2.8	7.6	3.4
COD	mg/l	171.0	15.0	38.0	16.0
Oil & Grease	mg/l	<5.0	<5.0	<5.0	<5.0
Ammoniacal Nitrogen	mg/l	<0.1	<0.1	<0.1	<0.1
Total Nitrogen	mg/l	20.4	1.9	27.6	0.89
Faecal Coliform	MPN/100	2140.0	320.0	2500.0	330.0

S.K. Mohanty

Prepared By –



A. L. Raut
Checked By-

ANNEXURE II

THE DHAMRA PORT COMPANY LIMITED

Environment Management Plan

Annexure-II

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
1	Capital dredging/ Reclamation/ Disposal/ Construction of Approach Trestle/ Berths and other offshore structures such as seawater intake/ marine outfall	Marine water Quality	<ul style="list-style-type: none"> - Increase in turbidity - Change in marine water quality due to aqueous discharges (oily waste, sanitary wastes) from dredgers, barges and workboats. - Spill of Bentonite Clay during pile driving. 	<ul style="list-style-type: none"> - Check turbidity levels with baseline levels as reference during entire monitoring programme - Dredge Management Programme. - Discharge of waste into sea will be prohibited. - Oil Spill control measures will be adopted. - Ensure that slop tanks are provided to barges/ workboats for collection of liquid/ solid waste. - Recirculation/Reuse of Bentonite clay and adoption of better construction methods to minimise the spill on marine environment. - Adoption Standard Reclamation methods with containment system to retain the solid inside the reclamation area. - Disposal of unused Dredged material at the identified offshore disposal area only. 	Dredging is being carried out in the areas identified and approved as a part of Revised Master plan. As a part of existing operation, Periodic marine water quality monitoring including turbidity is carried out near Kanika island by engaging MOEFCC approved laboratory. The details of Marine Water quality monitoring reports for the period Apr'24 to Sep'24 are enclosed as Annexure I B .
		Marine ecology	<p>Marine Ecology of this environment is already subjected to the changes due to maintenance dredging activities and hence the net impact will be minimal. Some of the likely impacts are:</p> <ul style="list-style-type: none"> - Decrease in DO levels. - Increase in noise levels. - Disturbance to benthic communities. - Changes in species diversity and density in areas adjoining dredging site. 		

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
			<ul style="list-style-type: none"> - Smothering or blanketing of sub-tidal communities. 	<ul style="list-style-type: none"> - Marine environmental monitoring as per environmental monitoring programme. 	
		Mangrove area	<ul style="list-style-type: none"> - Impact on 9ha mangrove near the southern boundary. - Impact on mangroves near northern boundary. - Impact on mangroves at Kanika Island. 	<ul style="list-style-type: none"> - DPCL has excluded scattered mangroves identified near the southern boundary of the port in phase I development from the port activity and implementing the conservation measures. During the planning stage, a channel for seawater influx is considered to the mangrove area. - Care shall be taken during reclamation near northern and southern side mangroves and reclamation bund shall be constructed to ensure that no impact on them. Construction of Northern rail link will pass through the sparse mangrove patch. It is estimated that ~0.1 ha of mangrove area will come under the development of utility corridor where the corridor will be developed on piles. Considering the mangrove footprint, 10 times of mangrove plantation will be done. - Minimum 50 m buffer has been provided near the Northern mangrove area and all the construction will be limited as per plan. - Discharge of toxic/hazardous materials during the port construction would not be allowed. - Revised Master Plan ensures the Tidal exchange near the mangrove area which 	<p>Noted & will be complied.</p> <p>As a part of existing operation periodic monitoring program covering all seasons on various aspects of the marine ecology monitoring is being carried out by NABL & MoEFCC accredited laboratory.</p>

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
				<p>is also ensured by of hydrodynamic modelling studies.</p> <ul style="list-style-type: none"> - Dredge spoil should not be entered into mangrove area. - Awareness will be imparted to workers in the port about the importance of mangroves and their conservation. 	
		Impact on turtle/Other Macro Fauna	<ul style="list-style-type: none"> - Accidental take during dredging. - Light Glare on Nesting 	<ul style="list-style-type: none"> - The channel area is well away from the turtle congregation area and hence there is no regular movement of turtle into the channel area. - DPCL to take appropriate measures to avoid accidental take of turtle during dredging. - Install specialised illumination system in line with "International Dark Sky Association (IDA)" to avoid glare to the sky or focusing light towards sea. - Mercury vapour and metal halides will not be used. Sodium vapour lamps will be used 	Noted
		Fishermen and fishing villages	<ul style="list-style-type: none"> - Local Fishermen approach to sea. - Impact on fishing due to Construction works. - Fishing harbour is located in Dhamra River at 6.5 km southwest boundary of the port. The fishing boats travels all through the Dhamra River and enter into sea. The approach channel of the port is oriented from south to boats travels from south to 	<ul style="list-style-type: none"> - Proper access to the sea for the local fishermen is considered during planning stage itself. - This is an existing port hence no direct impact is envisaged. Signboards will be placed at the construction activities in order to make fishermen aware of the on-going construction activities - Necessary marker buoys will be installed - Regular Interactions will be initiated with the fishing community before commencement of construction works 	Noted

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
			east. Fishing is being carried out at deep sea. Therefore, significant impact on fishing is not envisaged.	- Construction shall be limited to as per the development plan.	
2	Materials transport and construction activities.	Air Quality	<ul style="list-style-type: none"> - Exhaust emissions from vehicles. - Windblown dust during material movement. - Fugitive dust during construction material unloading. - Dust suspension during site preparation, construction. - Emissions from DG Sets. 	<ul style="list-style-type: none"> - To reduce impacts from exhausts, emission control norms will be enforced /adhered. - All the vehicles and construction machinery will be periodically checked to ensure compliance to the emission standards. - Construction equipment and transport vehicles will be periodically washed to remove accumulated dirt. - Providing adequately sized construction yard for storage of construction materials, equipment tools, earthmoving equipment, etc. - Provide enclosures on all sides of construction site. - Movement of material will be mostly during nonpeak hours. - On-site vehicle speeds will be controlled to reduce excessive dust suspension in air and dispersion by traffic. - Water sprinkling will be carried out to suppress fugitive dust. - Environmental awareness program will be provided to the personnel involved in developmental works. - Use of tarpaulin covers and speed regulations for vehicles engaged in transportation. 	<p>Complied.</p> <p>As a part of existing operation, air pollution mitigation measures are being adopted.</p>

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
		Noise	<p>Noise from following activities</p> <ul style="list-style-type: none"> - Vehicles transporting construction material. - Diesel run engines of construction machinery and dredgers - Pile driving activities during construction of Approach trestle/cargo berths etc., 	<ul style="list-style-type: none"> - Noise levels will be maintained below threshold levels stipulated by Central Pollution Control Board /Odisha State Pollution Control Board (CPCB)/OSPCB. - Procurement of machinery / construction equipment will be done in accordance with specifications conforming to source noise levels less than 75 dB (A). - Well-maintained construction equipment, which meets the regulatory standards for source noise levels, will be used. - Any equipment emitting high noise, wherever possible, will be oriented so that the noise is directed away from sensitive receptors. - Noise attenuation will be practised for noisy equipment by employing suitable techniques such as acoustic controls, insulation and vibration dampers. - High noise generating activities such as piling and drilling will be scheduled at daytime (6.00am to 10 pm) to minimise noise impacts. - Personnel exposed to noise levels beyond threshold limits will be provided with personal protective equipment's such as earplugs, ear muffs, etc. - Ambient noise levels will be monitored at regular intervals. - Exercise route selection, traffic regulations, timings etc., 	<p>Noted.</p> <p>As a part of existing operation Noise monitoring is carried out on monthly basis by engaging accredited NABL & MOEFCC laboratory. The Monitoring results are also submitted to the Regional office on regular basis. The copy is enclosed as Annexure – I C.</p>

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
		Disturbance to Natural Drainage pattern.	<ul style="list-style-type: none"> - Impact to natural flow of runoff due to reclamation and change of drainage course. 	<ul style="list-style-type: none"> - Storm water runoff will be directed as per the storm water drainage network proposed considering the existing drainage pattern and from village area and port area into the sea. - Requirements of villagers for tide water and boat movement has been duly considered in the drainage plan. - Prudent Planning of Layout– Mathematical Modelling Studies shows Flow regime changes for various tidal conditions in the study domain after the proposed expansion development of the - Port are predicted to be not of much significance and is limited to the development location mostly and found to be very much local in nature. No change in the flow regime of the rest of the domain is observed. 	Noted. Drainage pattern of the area is maintained. Creeks are periodically cleaned to ensure free flow of water from both outside and inside. Further inline to Revised Master Plan proper drainage facility will be developed as per the drainage plan.
		Vegetation and Strain on existing Infrastructure	<ul style="list-style-type: none"> - Loss of vegetation and strain on existing infrastructure. 	<ul style="list-style-type: none"> - The area being highly saline and Sea/Submerged inter tidal zone, no Major vegetation is present in the proposed expansion area except a narrow strip of thorny bushes. - Construction activities shall be limited within the site and dust shall be contained within the construction area. 	Noted
		Existing Traffic	<ul style="list-style-type: none"> - Traffic addition 	<ul style="list-style-type: none"> - The existing approach road to Dhamra Port is being widened by GoO which will improve the traffic conditions. - Proposed National Water Way (NW-5) will also be used for the transport of 	Noted. DPCL has an exclusive rail connectivity for the project and has proposal for future expansion of rail-road connectivity.

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
				<p>part of construction material which will reduce likely congestion on road.</p> <ul style="list-style-type: none"> - In addition, approval has already been obtained by DPCL for 4 lane road and 2 rail tracks (as a part of Phase I & II Clearance). As a part of Revised Master Plan, it is to develop further additional 2 lane road and 1 rail tracks. Traffic Wardens shall be deployed for regulating the traffic. - Drivers should be sensitized with respect to need to drive carefully while passing village areas. - Speed of the trucks shall be controlled by providing speed breakers, sign boards and other appropriate speed control techniques. - Proper lighting, signboards shall be provided at required locations. 	<p>Besides, DPCL has participated with PWD for maintenance and improvement of the main service road to Dhamra and has shared the cost of development.</p> <p>As a part of RMP EIA studies, Traffic study was conducted for assessment & evaluation of feasibility of Four Lane road (which is already approved as a part of Phase –II clearance) with future provision of Two lane, to be developed as a part of Revised Master Plan to connect Bhadrak & Dhamra Port. Based on this –</p> <ol style="list-style-type: none"> 1. Both Normal traffic + Generated traffic (due to proposed expansion) considered for the study. 2. Four lane (which is already approved as a part of Phase –II clearance) with future provision of 2 lane road, to be developed as a part of Revised Master Plan is proposed, which shall be sufficient to meet the Port Requirement as per the IRC guidelines. <p>Existing approach road from Jamujhadi to Dhamra will be utilized during construction phase (apart from proposed NW-5) which is being widened by GoO which will improve the traffic</p>

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
					conditions. Proposed road link will induce local traffic movement on either side and boost the travel characteristics of the people residing in nearby villages addition, for easy evacuation of cargo, a new Rail/Road/Utility Corridor (12 km x 125 m wide) is also proposed from Northern side of Dhamra Port.
3	Land Reclamation	Existing Water Resources like Groundwater and surface water	<ul style="list-style-type: none"> - Proposed expansion is planned in an additional area of 1323.4 Ha. Out of which approximately 1075.7 Ha land will be reclaimed and 247.7 Ha of land is proposed applied land. The proposed development of master plan site falls in saline and Sea/Submerged intertidal area without any macro vegetation, habitation and built-up area. The applied land to be reclaimed will be saline mud and will be separated from the adjoining land mass through the salt dyke. This being an intertidal zone which is sloping towards sea, therefore, there will be no impact on groundwater quality. 	<ul style="list-style-type: none"> - Existing protective bunds (salt dyke) and slope gradient will prevent inundation of salt water to the adjoining land. - Return seawater from reclamation areas will be channeled back to sea. 	Noted

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
			<ul style="list-style-type: none"> - Construction phase water requirement will be met through existing sources .i.e. Matai River. 		
4	Solid Waste Management	Soil quality	<ul style="list-style-type: none"> - Impacts due to disposal of solid waste on ground 	<ul style="list-style-type: none"> - Proper waste Management practice is being followed and shall be extended. - General refuse generated on-site will be collected in waste skips and separated from construction waste. - Other Construction waste will be used within port site for filling of low lying areas. - Solid Waste Management Rules, 2016 and Construction & Demolition Waste Management Rules, 2016 (as amended) will be followed for environmental sound management of respective waste. - Burning of refuse at construction sites will be prohibited. 	<p>Noted</p> <p>DPCL has developed a vision for making itself – “A Zero Waste to Landfill Port” by adoption of 5R principle of waste management i.e Reduce, Reuse, Reprocess, Recycle & Recover.</p> <p>During the period Apr’24 to Sep’24, a total quantity of 220.44MT (food,plastic,paper,glass) of solid waste has been handled in line to 5R concept.</p> <p>We have color coded bins for segregating different category of solid waste. Biodegradable wastes are used for compost preparation. Recyclable wastes are handed over to authorized recyclers.</p>
5	Handling of hazardous wastes	Human safety and property/ Environment Loss	<ul style="list-style-type: none"> - Fire accidents due to hazardous material handling. - Impact on Terrestrial and Marine Environment. 	<ul style="list-style-type: none"> - Hazardous and other waste Management Rules, 2016 (as amended) will be followed for environmental sound management of hazardous waste. - Adequate safety measures as per OSHA standards will be adopted. 	Noted

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
				<ul style="list-style-type: none"> - Construction site will be secured by fencing with controlled/limited entry points. - Hazardous materials such as lubricants, paints, compressed gases, and varnishes etc., will be stored as per the prescribed/approved safety norms. - Construction site will be secured by fencing with controlled/ limited entry points. - Medical facilities including first aid will be made available for attending to injured workers. - Handling and storage as per statutory guidelines. - Positive isolation procedures will be adhered. - Hazardous wastes will be disposed through approved OSPCB/CPCB vendors. 	
6	Water Resources	Existing Water Resources like Groundwater and surface water	<ul style="list-style-type: none"> - Impacts to the surface water body 	<ul style="list-style-type: none"> - Water required during construction activity will be met through existing water supply system from Matai River. - Groundwater table at Dhamra is high due to high rainfall. However, optimization of water resource will be done. - Prudent Planning of Layout - Based on existing drainage pattern and catchment area, main outfall drains are proposed to carry storm water discharge from village area and port area and discharging into seas. 	Noted

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
				<ul style="list-style-type: none"> - Care will be taken to prevent the runoff from the construction site to the nearby natural streams connecting to rivers. - Construction camp wastewater will be collected and treated. Treated wastewater will be used for Plantation/Greenbelt development. 	
Operational Phase					
1	Cargo handling and Inland Cargo movement and storage areas, Regasification process and equipment operation such as pumps, compressors, etc.,	Air Quality	<ul style="list-style-type: none"> - Emissions from loading/unloading equipment, DG sets, vehicular dust emissions, fugitive emissions from storage areas, Emissions from vessels visiting Dhamra Port, Vehicular emissions due to cargo transport, emissions from LNG/LPG regasification process, spillage of cargo etc., - Air Quality Modelling study is carried out to Predict the GLCs at the receptors due to Fugitive emissions from Dry bulk cargo stockyard and Vehicular movements, etc., and it is found that resultant concentrations are well within the NAAQs standards at all receptors. 	<ul style="list-style-type: none"> - Most of the cargo transportation through rail and Pipelines (~ 70%). - Use of specialized ship loaders/unloaders, - wagon tippler, track Hopper, covered conveyors and rapid loading system through silos. - Use of -low Sulphur diesel fuel is proposed. - Dust Suppression measures at loading/unloading points, wagon tippler complex, Track Hoppers, transfer points, stock yards, rapid loading system and at internal roads. - Scientific and regulated stacking of cargo piles - Wind screens will be provided along stack yard. - Periodic cleaning of cargo spills. - Use of tarpaulin covers and speed regulations for vehicles/wagons engaged in transportation. - Greenbelt Development. - Proper housekeeping. 	Noted

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
				<ul style="list-style-type: none"> - Regularization of truck movement. - Vessels visiting the facility shall meet emission standards as per MARPOL. - Use of Eco-friendly regasification technology such as Seawater based/ Ambient Air Based for LNG Regasification. 	
		Noise	<ul style="list-style-type: none"> - Due to equipment handling and vehicular movement. - Ship unloading operations. - Due to Regasification Process and equipment operation. 	<ul style="list-style-type: none"> - Acoustic Barriers and Enclosures. - Personal Protective Equipment (PPE). - Greenbelt Development. - Counselling and traffic regulation. 	<p>Noted.</p> <p>As a part of existing operation Noise monitoring is carried out on monthly basis by engaging accredited NABL & MOEFCC laboratory. The Monitoring results are also submitted to the Regional office on regular basis. The copy is enclosed as Annexure – I C.</p>
		Traffic Addition	Cargo movement from/to port	<ul style="list-style-type: none"> - Most of the cargo transportation through rail and Pipelines (~ 70%). - Proposed National Water Way (NW-5) will also be used for the transport of cargos which will reduce likely congestion on road. - Approval has already been obtained by DPCL for 4 lane road and 2 rail tracks (as a part of Phase I & II Clearance). As a part of Revised Master Plan, it is to develop further additional 2 lane road and 1 rail tracks in the existing corridor. - 125 m wide corridor is meant to accommodate three rail tracks, a six-lane road, an electric overhead transmission line, utility corridor and side drain. This will be sufficient to 	<p>Noted.</p> <p>DPCL has an exclusive rail connectivity for the project and has proposal for future expansion of rail-road connectivity.</p> <p>Besides, DPCL has participated with PWD for maintenance and improvement of the main service road to Dhamra and has shared the cost of development.</p> <p>As a part of RMP EIA studies, Traffic study was conducted for assessment & evaluation of feasibility of Four Lane road (which is already approved as a part of Phase –II clearance) with future provision of Two lane, to be developed as a part of Revised</p>

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
				<p>cater the DPCL revised master Plan transportation requirements.</p> <ul style="list-style-type: none"> - rail, road and utilities corridor (approx.12km x 125m wide) is also proposed from Northern side - development of Dhamra Port. - In addition, for easy evacuation of cargo, a new rail, road and utilities corridor (approx.12km x 125m wide) is also proposed from Northern side development of Dhamra Port. 	<p>Master Plan to connect Bhadrak & Dhamra Port. Based on this –</p> <ol style="list-style-type: none"> 3. Both Normal traffic + Generated traffic (due to proposed expansion) considered for the study. 4. Four lane (which is already approved as a part of Phase –II clearance) with future provision of 2 lane road, to be developed as a part of Revised Master Plan is proposed, which shall be sufficient to meet the Port Requirement as per the IRC guidelines. <p>Existing approach road from Jamujhadi to Dhamra will be utilized during construction phase (apart from proposed NW-5) which is being widened by GoO which will improve the traffic conditions. Proposed road link will induce local traffic movement on either side and boost the travel characteristics of the people residing in nearby villages. In addition, for easy evacuation of cargo, a new Rail/Road/Utility Corridor (12 km x 125 m wide) is also proposed from Northern side of Dhamra Port.</p>
		Fishermen and fishing villages	- Local Fishermen approach to sea.	- Dhamra Port is an existing port, fishermen in the area are well aware of	Noted

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
			<ul style="list-style-type: none"> - Fishing harbour is located in Dhamra River at 6.5 km southwest boundary of the port. The fishing boats travels all through the Dhamra River and enter into sea. The approach channel of the port is oriented from south to north east whereas fishing boats travels from south to east. Fishing is being carried out at deep sea. Therefore, significant impact on fishing is not envisaged. 	<p>the existing port activities. Therefore, no direct impact is envisaged.</p> <ul style="list-style-type: none"> - Creation of awareness among the fishermen about proposed master plan activities is being done and will be continued. - Marker buoys along the channel. - Educate the fishermen about the orientation of approach channel and ships visits etc., - Regular interactions will be initiated with the fishing community. - Conflicts, if any, with fishing community will be amicably resolved in all cases. 	
2	Aqueous discharges in harbour basin	Marine water quality and ecology	<ul style="list-style-type: none"> - Change in marine water quality/ecology due to discharge ship wastes (sullage), sewage, bilge water, Desalination Plant reject water, LNG/LPG regasification return water etc. 	<ul style="list-style-type: none"> - Vessels/Ships will be required to exchange ballast water in a deep sea location prior to arrival in the harbour. - Ships are prohibited from discharging Waste water, bilge, oil wastes, etc. into the near shore as well as harbour waters. - Ships would also comply with the MARPOL regulation. - As a mitigation measure for spillages an Oil spill contingency plan prepared and will be implemented. - Provision of waste reception facility for bilge water and waste oil will be explored 	Noted

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
				<ul style="list-style-type: none"> - Desalination Plant water requirement selected prudently and will be sourced from river Matai which will ensure the reject TDS will be always less than the seawater TDS and hence no significant impact due to reject discharge into marine environment. - LNG/LPG regasification return water with low temperature (<70C than ambient) will be sent back through marine outfall system with diffusers at identified location through mathematical model studies which will ensures attainment of ambient conditions (within 600 m) in the harbour area. - Marine Water Quality monitoring is proposed as Part of Environmental Monitoring programme. 	
3	Cargo and Oil Spills (Accidental)	Marine water quality and ecology	<ul style="list-style-type: none"> - Change in marine water quality 	<ul style="list-style-type: none"> - In case of any cargo spillage during transfer from/to ships, it will be attempted to recover the spills. - Oil spill control equipment such as booms /barriers will be provided for containment and skimmers will be provided for recovery. - Response time for shutting down the fueling, containment and recovery will be quicker. 	Noted
4	Maintenance dredging	Marine water quality/Marine Ecology	<ul style="list-style-type: none"> - Increase in turbidity - Decrease in DO levels 	<ul style="list-style-type: none"> - It will be ensured that dumping of the maintenance dredge material would be uniform at the identified offshore disposal ground. 	Noted

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
				<ul style="list-style-type: none"> - Dredge spoil disposal studies reveals that the changes in bed level at disposal site due to deposition of dredge spoil is less than 0.011 m. The spread of plume is also ensured that it will never reach the channel, shoreline and other eco sensitive areas. - Pre and post dredge material disposal bathymetry survey at disposal location shall be carried out. - Based on the TSS/Turbidity monitoring results during dredging, nearby receptors if any impacted would be provided with suitable mitigations measures such as silt screen to contain the turbidity. 	
5	Water Supply	Water resources	<ul style="list-style-type: none"> - Impact on existing water resources 	<ul style="list-style-type: none"> - Raw water shall be taken from Matai River - (Perennial) at the existing intake location. The maximum water withdrawal shall be 100 MLD(for 40 MLD desalination plant). - No downstream users are observed beyond the Intake Point at River Matai. - Government of Odisha has accorded permission for water intake of 5 MLD from Matai River and necessary permission will be obtained from the concerned authorities for revised Master plan requirements. 	
6	Wastewater Discharge	Water Quality	<ul style="list-style-type: none"> - Impact due to discharge of runoff from stock piles and disposal of untreated sewage. 	<ul style="list-style-type: none"> - Collection of runoff from stock piles and directing into settling ponds for recycling and supernatant water will be used for dust suppression. 	Noted

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
			<ul style="list-style-type: none"> - Impact due to discharge of brine (reject from Desalination plant) runoff from stock piles. - And disposal of untreated sewage. 	<ul style="list-style-type: none"> - Neutralisation using lime to ensure settlement of heavy metals, if any. - STP (1 MLD capacity during 5 year and 2 MLD (Cumulative) capacity during 30 year development) to treat the sewage generated in the premises. - ETP (3 MLD capacity during 5 year and 5 MLD (Cumulative) capacity during 30 year development) to treat the effluents. - Storm Water Drainage System - Treated Sewage and effluents shall be reused for dust suppression, irrigating greenbelt and other requirements. 	
7	Seawater withdrawal for Regasification and water withdrawal from River matai for desalination plant	Marine ecology/ River Ecology	<ul style="list-style-type: none"> - Impingement/Entrainment/ Entrapment of aquatic life 	<ul style="list-style-type: none"> - Intake with proper screens will be Provided - Maintaining Low Intake Velocity to minimise the Entrainment & impingement. - Seawater Intake is proposed in protected - harbour basin which will reduce major marine organism entry. - Intake is proposed nearer to LNG Terminal and hence entrapment will be insignificant. 	Noted
8	Solid Waste Management	Groundwater and Soil quality	<ul style="list-style-type: none"> - Impact due to disposal of solid waste on ground 	<ul style="list-style-type: none"> - 5 R (Reduce /Reuse/Recover/Recycle and Re Process) principle shall be explored - STP sludge will be used as manure in green belt. - Organic Waste Convertor will be provided. 	Noted DPCL has developed a vision for making itself – “A Zero Waste to Landfill Port” by adoption of 5R principle of waste management i.e

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
				<ul style="list-style-type: none"> - Composted bio-degradable waste will be used as manure in greenbelt/ gardens. - Other recyclable wastes will be sold to OSPCB authorised vendors. - Commercial use will be explored for the materials settled in dump pond. 	<p>Reduce, Reuse, Reprocess, Recycle & Recover.</p> <p>During the period Apr'24 to Sep'24, a total quantity of 220.44 MT(food,plastic,paper,glass) of solid waste has been handled in line to 5R concept.</p> <p>We have color coded bins for segregating different categories of solid waste. Biodegradable wastes are used for compost preparation. Recyclable wastes are handed over to authorized recyclers.</p>
	Handling of hazardous materials/ wastes	Fire accidents due to products handling and other health hazards/ Groundwater and soil contamination	<ul style="list-style-type: none"> - Human life and loss of property. - Impact on Terrestrial and Marine Environment 	<ul style="list-style-type: none"> - Hazardous and other waste Management Rules, 2016 (as amended) will be followed for environmental sound management of hazardous waste. - Adequate safety measures as per OSHA standards will be adopted. - Hazardous materials such as lubricants, paints, compressed gases, and varnishes etc., will be stored as per the prescribed/approved safety norms. - Medical facilities including first aid will be made available for attending to injured workers. - Handling and storage as per statutory guidelines. - Positive isolation procedures will be adhered. 	<p>Complied.</p> <p>We have a strict safety regimen with the motto "Safety First". Safety Observations are mandatory from every department of the port and immediate measures are undertaken to rectify the shortcoming.</p> <p>OHSAS Guidelines and MSIHC Guidelines are followed for handling of Hazardous materials. First aid center facilities have been provided for employees and workers. Inline to this a wellness center is also operated outside the port premises for providing medical facilities for villagers.</p>

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
				<ul style="list-style-type: none"> - Hazardous wastes will be disposed through - approved OSPCB/CPCB vendors or shall be - given to nearby approved cement industry for coprocessing. - Risk analysis has been carried out and - suggested risk mitigation measures shall be - adopted. - Emergency alarms, provision of fire hydrant - system and fire station. - Effective Disaster Management Plan (DMP) - which covers onsite and offsite emergency plans. - Recovery of spills to the maximum extent - possible. 	
	Presence of Reclaimed back up area or Bund	Shoreline Changes Change in Hydrodynamics	<ul style="list-style-type: none"> - The shoreline modelling studies shows that mostly accretion in the stretches studies and erosion in north of revised master pan area at the rates of -4.38m/ year and erosion below the Dhamra river region at the rate of -2.71 m/ year. Suitable mitigation measures will be carried out to maintain the stability of coast. 	<ul style="list-style-type: none"> - Monitoring of shoreline with the help of high resolution satellite imageries during operation phase shall be carried out periodically. - Based on the monitoring results and if required, appropriate remedial measures such as beach nourishment/ creation of sand trap/ any other suitable methods shall be carried out to maintain the stability of coast. 	<p>Noted.</p> <p>Shoreline monitoring study was carried out as a part of Environment Impact Assessment study for Revised Master plan and further, the same will be carried out at regular intervals to check the impact and if required mitigation measures will be carried out.</p>

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
			- Flow modelling shows that Variation in the flow regime (in the current speeds) after the expansion is limited to the development location mostly and found to be very much local in nature. No change in the flow regime of the rest of the domain is observed.		
11	Operation of Port	Socio-economic conditions of the region	During operational phase the expected direct and indirect employment will be 2200 persons and 11000 persons during 5 year development and 4000 persons and 20000 persons during 30 year development respectively. Local people will be given preference based on their qualification and skill set. Together with this employment potential, project will help to enhance the socio economic conditions of the area with better schooling, communication and transport facilities that will be developed/ triggered as a part of overall economic development of the region.		Noted
		Natural Hazards	Disaster Management Plan (DMP) is already in place and will be continued after expansion also with required revisions. Port Conservator will act as the overall in-charge of the control of educative, protective and rehabilitation activities to ensure least damage to life and property.		Noted & will be complied. At present no hazardous or petroleum products are being handled at shore and details RA recommendation will be complied as and when applicable, However, as a part of present operation following measures are being adopted. Disaster Management Plan was prepared was approved from District Administration. Periodic mock drills are also being carried out. Safety is being followed as per the prescribed guideline. Dedicated team lead by dedicated

Sl. NO.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts and their significance in the absence of Mitigation Measures	Mitigation Measures	Compliance
					site safety team along with team at Corporate is ensuring best safety practices at Port premises.
		Induced Development	Offers an efficient and cost effective supply chain/value proposition to the local importers and exporters in the states of Odisha, Chhattisgarh and Jharkhand. Also serves as an alternative gateway to ports on the east coast of India for trade between north east India and Asia.		Noted & will be complied.

ANNEXURE III

ANNEXURE-III**Dhamra Port Company Limited****Environmental Expenditure****Period: Apr-24 to Sep-24**

Sl.No	Activity/Category	Expenditure (in Lakhs)
01	Construction of new drains and drain cleaning	131.16
02	Environmental Monitoring Services	16.41
03	Waste management & disposal	16.67
04	Treatment and Disposal of Bio-Medical Waste	2.10
05	Inside Port plantation and maintenance	25.00
06	O&M of Sewage Treatment Plant (STP)	28.00
07	Port housekeeping (Environment)	42.83
08	Port housekeeping (Operation)	60.10
09	Wagon Covering	95.84
10	Cargo Stack Covering	80.49
11	Truck Covering	2.88
12	Water Sprinkling of Inside & Outside Port	15.52
13	Water Conservation Initiative	1.50
14	Housekeeping (Engineering Services)	162.43
15	Mechanized Sweeping Machine	76.60
16	Maintenance of Dust suppression systems	1.30
17	O & M of OWC machine	10.48
18	Firefighting Expenses	54.22
19	O & M of Mist Cannon	8.06
20	Sewage Management	17.75
21	Turtle conservation	15.37
	Total	864.71

ANNEXURE IV

The Dhamra Port Company Limited						Annexure - IV	
CSR Expense							
Sl. No.	Vertical	April	May	June	July	August	September
1	EDUCATION						
1.a	Vidyaratna- Scholarship	0	0	1.81	0	0	20.59
1.b	Utthan- the Progressive learners' program	2.28	3.51	2.93	2.93	2.86	12.21
1.c	IT ON WHEEL	0	0	0.34	0.34	0.76	0.96
1.d	Day Observation	0	0	0	0.06	0	0.57
1.e	Udaan	0	0	0	0	0	0
1.f	ADANI DAV PUBLIC SCHOOL	38.81	41.8	41.56	57.51	35.27	40.98
2	COMMUNITY HEALTH						
2.a	Wellness Centre	0.14	0.14	0.59	0.14	0.14	12.93
2.b	Physiotherapy Unit	0	0	0	0	0	2.93
2.c	Specialised Service at WNC (Med. Orth, Skin)	0	0	0	0	0	5.18
2.d	MHCU	0	0	0	0	0	25.18
2.e	Health Camp	0	0	0	0	0	14.79
2.f	Day Observation	0	0	0	0	0	0
2.g	Strengthening Public Healthcare System Infrastructure	0	0	0	0	0	3.46
3	SUATAINABLE LIVELIHOOD DEVELOPMENT						
3.a	AMMA: Stregthening of Women Producer's Group (WPG)	0	0	0	0		0
3.b	Annapurna: Farmers Development	0	2.76	0	0	1.19	8.08
3.c	KAMADHENU: Livestock Farmers Development : CDC in collaboration with BAIF	0	0	0	0	21.77	0
3.d	KAMADHENU: Running of 2 MVU at at 11 Rail corrdior and 09 Core GP	0	0	0	0	16.2	14
3.e	KAMADHENU: MVU at Core GP	0	0	0	0	0.42	0.5
3.f	Day Observation	0	0	0	0	0.21	0
4	COMMUNITY DEVELOPMENT						
4.a	Village Development Related: Road Infra Support 03 Nos	0	0	0	0	0	0
4.b	Hanpump with waste water recharge pit (installation and O&M)	0	0	0	0	0	7.98
4.c	Restoration of national heritage	0	0	0	0	0	1
4.d	Promotion of Art and Culture	0	0	0	0	0	0
4.e	Responding to humanitarian and natural calamities	0	0	0	0	0	0
4.f	GIRLS ATHLETE MEET - Core GP 12 High School and Rail Corridor 12 High School	0	0	0	0	0	0

4.g	Vollyball Tournament at Rail Corridor (10 teams) Day & Night	0	0	0	0	0	0
4.h	Two days Inter High School Cricket Tournament (10 High School students)-Railcorridor	0	0	0	0	0	0
4.i	Inter High School Boys Athelete-10 schools Core GP	0	0	0	0	0	0
4.j	Skill enhancement (Sepak Takraw) - Boys and Girls	0	0	0	0	0	0
5	CLIMATE ACTION						
5.a	Pond Depening	0	0	0	13.59	0	0
5.b	Construction of RRWHS	0	0	0	0	0	0
5.c	Mass Plantation & maintenance	0	0	0	0	21.74	0
5.d	Highmast Light Installation	0	0	0	0	0	0
5.e	Health & Sanitation	0	0	0	0	0	0
	TOTAL(in lakhs)	41.23	48.2	47.23	74.57	100.6	171.34
	Grand Total	483.17					

ANNEXURE V

						ANNEXURE-V			
Yearwise Expenditure for Corporate Environment Responsibility (CER)									
Sl.No.	Core Area	Project	2019-20 (In Lakhs)	2020-21 (In Lakhs)	2021-22 (In Lakhs)	2022-23 (In Lakhs)	2023-24 (In Lakhs)	2024-25 (In Lakhs)	Grant Total (In Lakhs)
1	Biodiversity	Kanikalsland Conservation Plan	100.00	51.70	30.50	0.00	0.00	0.00	182.20
		Mangroves conservation plan	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Turtle / other spices Conservation plan	14.93	23.04	62.39	60.73	46.54	15.37	223.00
		Environment Cell cum School Library	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Community Plantation	81.40	0.00	77.31	28.25	0.00	21.74	208.70
		Total of Biodiversity	196.33	74.74	170.20	88.98	46.54	37.11	613.90
2	Water Conservation and Water Recharge Projects	Pond Deepening / Pond strengthening	0.00	0.00	0.00	0.00	21.54	13.59	35.13
		Bore well Recharge Structure	0.00	0.00	0.00	0.00			0.00
		Total of Water Conservation and Water Recharge Projects	0.00	0.00	0.00	0.00	21.54	13.59	35.13
3	Fisherman alternate livelihood	Technical Training to Fisherman youth	0.00	0.00	0.00	0.00			0.00
		Soft Skill Training to Fisherwomen	0.00	0.00	0.00	0.00			0.00
		Life Jacket and Solar Lantern Support	0.00	0.00	0.00	0.00			0.00
		Electrification of Fishing Area	0.00	0.00	0.00	0.00			0.00
		Raising of Plat form	0.00	0.00	0.00	0.00			0.00
		KAMADHENU: Running of 2 MVU at at 11 Rail corrdior and 09 Core GP	0.00	0.00	0.00	0.00	0.00	30.02	30.02
		KAMADHENU: MVU at Core GP	0.00	0.00	0.00	0.00	0.00	0.92	0.92
		Day Observation	0.00	0.00	0.00	0.00	0.00	0.21	0.21
		Annapurna: Farmers Development	0.00	0.00	0.00	0.00	0.00	12.03	12.03
		KAMADHENU: Livestock Farmers Development : CDC in collaboration with BAIF	0.00	0.00	0.00	0.00	0.00	21.80	21.80
		Total of Fisherman alternate sustainable livelihood development	0.00	0.00	0.00	0.00	0.00	64.98	64.98
4	Women Empowerment Project to promote	Income generation programme to Women development.	0.00	0.00	0.00	0.00			0.00
		Training to SHGs for their capacity building.	0.00	0.00	0.00	0.00			0.00
		Total of Women Empowerment Project to promote entrepreneurship	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Agriculture Promotion	Commercial Vegetable Cultivation	0.00	0.00	0.00	0.00			0.00
		Fodder Cultivation/Farmer initiatives	0.00	0.00	0.00	0.00			0.00
		Multi Cropping	0.00	0.00	0.00	0.00			0.00
		Total of Agriculture Promotion	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Community Infrastructure	Internal village Road Development	0.00	0.00	0.00	0.00			0.00
		Excavation of Hand Pumps for Drinking water facility	0.00	0.00	0.00	0.00	42.64	7.98	50.62
		Construction of Community toilet	0.00	0.00	0.00	0.00			0.00
		Development of School Infrastructure	0.00	0.00	0.00	0.00			0.00
		Construction of Mini Stadium	0.00	0.00	0.00	0.00			0.00
		Fixing of High Mast Light	0.00	0.00	0.00	0.00			0.00
		Construction of community library	0.00	0.00	0.00	0.00			0.00
7		Total of Community Infrastructure	0.00	0.00	0.00	0.00	42.64	7.98	50.62
		GRAND TOTAL	196.33	74.74	170.20	88.98	110.72	123.66	764.63

ANNEXURE VI

Dhamra Port Company Limited

OIL SPILL MANAGEMENT

	DESCRIPTION		DHAMRA		REMARKS
			VIKOMA	DESMI	
EQUIPMENT	Inflatable Boom (meters)		300	1750	VIKOMA, Sentinel 1100 Boom + DESMI
	Skimmer (20 TPH)		1	3	VIKOMA, KOMARA-20, 5-bar + DESMI
	OSD Applicator (no.)		10	2	
	Oil Spill Dispersant (litres)		6525		
	10 Tons flex Barge (no.)		-	4	
	Sorbent boom (meters)		-	500	
	Sorbent Pad (no.)		-	2000	
	Shoreline cleanup Equipment	Mini Vacuum pumps	-	5	
		OSD Applicator	-	5	
VESSELS	Work Boats		2		
	Tugs		5		2 tugs are equipped with equipment
MANPOWER	IMO Level 1		7		
	IMO Level 2		2		
	IMO Level 3		1		
	Other		-		

ANNEXURE VII

Plantation / Greenbelt Inside Port



Mass Plantation on WED



Mass Plantation on WED



Mass Plantation inside port



Mass Plantation inside port

Plantation / Greenbelt Inside Port



Avenue Plantation (Inside Port)



Roadside Plantation (Inside Port)



Plantation Inside Port



Plantation inside Port

Plantation / Greenbelt - Nursery



Nursery at Dhamra Port



Nursery at Dhamra Port



Nursery at Dhamra Port



Nursery at Dhamra Port

Plantation / Greenbelt – Degraded Forest Patch



Plantation in degraded Forest Patch (North side)



Plantation in degraded Forest Patch (North side)



Plantation in degraded Forest Patch (Nr. Amarnagar)



Plantation in degraded Forest Patch (Nr. Amarnagar)

South Side Mangrove Plantation and Conservation



Conservation & Protection of 9 Ha Mangrove Patch



Conservation & Protection of 9 Ha Mangrove Patch



Conservation & Protection of 9 Ha Mangrove Patch



Conservation & Protection of 9 Ha Mangrove Patch

ANNEXURE VIII

ANNEXURE-VIII

The Dhamra Port Company Limited		
Fire Extinguisher Details		
Sl. No.	Locations	Type of Extinguishers & Quantity
1	SWITCH YARD	DCP-5KG-4nos
2	MCC -1	(CO2-4.5KG)-5nos (CO2 -3KG)-1no, (FOAM-50ltrs)-01no
3	MCC-1(A)	(CO2-4.5KG)-3Nos(DCP-6KG)-2KG
4	MCC -2	(CO2-4.5KG)-2nos
5	MCC -2(A)	(CO2-4.5KG)-1no (CO2 -3KG)-1no
6	MANTEI Office (Security)	CO2-4.5kg-02 Nos, DCP-6kg-04 Nos, DCP25kg-01 No.
7	MCC -4	(CO2-4.5KG)-02nos. (DCP- 5KG)-1no
8	TP - 1(A)	CO2-4.5KG-1no
9	TP - 1(B)	CO2-4.5KG-1no
10	TP - 2	CO2-4.5KG-1no
11	TP - 2(A)	CO2-4.5KG-1no
12	TP - 3	CO2-4.5KG-1no
13	TP - 3(A)	CO2-4.5KG-1no
14	NEW TP-3	CO2 -4.5KG-1no
15	TP - 4	CO2 -4.5KG-1no
16	TP - 4 (A)	CO2 -4.5KG-1no
17	TP - 5	CO2 -4.5KG-1no
18	TP - 6	CO2 -4.5KG-1no
19	TP-7	CO2 -4.5KG-1no
20	TP-8	CO2 -4.5KG-1no
21	TP-9	CO2 -4.5KG-1no (DCP- 5KG)-1no.
22	TP-10	CO2 -4.5KG-1no
23	TP-10(A)	CO2 -4.5KG-1no
24	TP-11	CO2 -4.5KG-1no
25	TP-11(A)	CO2 -4.5KG-1no
26	TP - 12	CO2 -4.5KG-1no
27	TP – 12(A)	CO2 -4.5KG-1no
28	TP - 14	CO2 -4.5KG-1no
29	TP - 15	CO2 -4.5KG-1no
30	TP – 15(A)	CO2 -4.5KG-1no
31	TP - 16	CO2 -4.5KG-1no
32	TP - 17	CO2 -4.5KG-1no
33	TP - 19	CO2 -4.5KG-1no
34	TP - 21	CO2 -4.5KG-1no
35	TP - 21	CO2 -4.5KG-1no
36	JETTY	CO2 -4.5KG-2nos DCP-5KG-5nos
37	SL	CO2 -4.5KG-4nos DCP-5KG-1no
38	SUL-1	CO2 -4.5KG-5nos (CO2 -3KG)-1nos (DCP- 5KG)-2nos
39	SUL-2	CO2 -4.5KG-5nos (CO2 -3KG)-1nos (DCP- 5KG)-2nos
40	SUL-3	CO2 -4.5KG-6nos (DCP-2KG)-2nos (DCP- 5KG)-1no
41	SUL-4	CO2 -4.5KG-6nos (DCP- 5KG)-3nos
42	SUL-5	CO2 -4.5KG-6nos (DCP- 5KG)-3nos
43	LIEBHERR-11	CO2 -4.5KG-2no, DCP-5KG-2nos, DCP-2KG-2nos
44	LIEBHERR-12	CO2 -4.5KG-2no, DCP-5KG-4nos
45	LIEBHERR-06	(CO2 -4.5KG)-2no, (CO2 -3KG)-1no, DCP-5KG-1no
46	LIEBHERR-07	CO2 -4.5KG)-3no, DCP-2KG-1no

47	SILO - 1	CO2 -4.5KG-3nos DCP-5KG-1no
48	SILO - 2	CO2 -4.5KG-3nos DCP-5KG-1no
49	SILO - 3	CO2 -4.5KG-2nos DCP-5KG-1no
50	SILO - 4	CO2 -4.5KG-3nos DCP-5KG-1no
51	FIRE PUMP HOUSE	CO2 -4.5KG-2nos
52	WTC -1	CO2 -4.5KG-2nos. DCP-5KG-2Nos
53	WTC -2	CO2 -4.5KG-2nos DCP-5KG-2nos CO2 -3KG-1no
54	SR -1	CO2 -4.5KG-2nos DCP-5KG-1no
55	R - 1	CO2 -4.5KG-2nos DCP-5KG-1no
56	SR -2	CO2 -4.5KG-2nos DCP-5KG-1no
57	SR -3	CO2 -4.5KG-2nos DCP-5KG-1no
58	SR -4	CO2 -4.5KG-1no CO2 -3KG-1no, DCP-5KG-1no
59	SR-5	CO2 -4.5KG-2nos DCP-5KG-1no
60	SR-6	CO2 -4.5KG-2nos DCP-5KG-1no
61	SR-7	CO2 -4.5KG-2nos DCP-5KG-1no
62	SR-8	CO2 -4.5KG-2nos DCP-5KG-1no
63	SR-4A	CO2 -4.5KG-2nos DCP-5KG-1no
64	SR-3A	CO2 -4.5KG-2nos DCP-5KG-1no
65	Fire & Security Barrack	CO2-4.5KG-3nos, DCP-5KG-2no
66	JETTY CONTAINER	CO2-4.5KG-1no, DCP-5KG-1no
67	MHS OFFICE	CO2-4.5KG-2 Nos.
68	PSS	CO2 -4.5KG-3nos, DCP-5kg-01No.
69	BMH WORKSHOP	CO2 -4.5KG-3nos DCP-5KG-3nos FOAM-50ltrs-01no
70	All Equipment	DCP-5KG-08nos.
71	LOCO SHED	CO2 -4.5KG-02nos, DCP-5KG-2Nos.
72	DIESEL FILLING STATION	Foam-9ltr-1no
74	IOCL	Foam-9ltr-1no , Foam 50ltr-01 No.
75	WTP	CO2 -4.5KG-4nos
76	ADANI HEALTH CENTER	CO2-4.5kg-05 Nos, DCP5kg-03 Nos.
77	REWA OFFICE	CO2-4.5KG-3Nos DCP-5KG-1No
78	CUSTOMS OFFICE	CO2-4.5KG-1No DCP-5KG-1No
79	DPCL STORE	CO2 -4.5KG-1no DCP-5KG-1No
80	Lubricant Store	Foam-9ltr-1no, DCP-5KG-1No.
81	SS-01	CO2 -4.5KG-1no
82	SS-02	CO2 -4.5KG-1no
83	SS-03	CO2 -4.5KG-1no
84	SS-04	CO2 -4.5KG-1no
85	SS-05	CO2 -4.5KG-3nos
86	Adani port canteen	CO2 -4.5KG-03no DCP-5KG-1no
87	DHAMRA HOUSE	DCP-6KG-7nos, DCP-2KG-1nos CO2 4.5KG-01no
89	KANIKA GUEST HOUSE	CO2 -4.5KG-01no DCP-5KG-1no
90	DAV SCHOOL, KUAMARA	CO2 -4.5KG-16nos DCP-5KG-15nos
91	TOWNSHIP	CO2 -4.5KG-11nos
92	New Township	CO2 -4.5KG-04nos, DCP-6KG-4nos
93	COMMUNITY HALL	CO2 -4.5KG-1nos DCP-5KG-2nos
94	PREFAB	CO2 -4.5KG-4nos DCP-5KG-5nos
95	DHAMRA GUEST HOUSE	CO2 -4.5KG-4Nos.
96	RAILWAY OFFICE	CO2 -4.5KG-02noS DCP-5KG-3nos
97	BHATATIRA STATION	CO2(4.5kg)-2Nos DCP-5KG-1no
98	BHATATIRA LC-5	DCP-5KG-1no
99	BHATATIRA- SP	CO24.5kg-1No
100	GURUDASPUR STATION	CO2-4.5KG-1No DCP-5KG-1No
101	GURUDAS PUR TSS	CO2 -4.5KG-1no DCP-5KG-4Nos.
102	GURUDAS PUR SUB STATION	DCP-5KG-2Nos
103	INTAKE	CO2 -4.5KG-3nos DCP-5KG-1no

104	RANITAL	CO2 -4.5KG-1no
105	GURUDAS PUR LC-19	DCP-5KG-1no
106	IMWB	CO2-4.5KG-1 No.
107	LOCO TRANSFORMER	CO2-4.5KG-2nos, DCP-5KG-1no
108	HEALTH CENTRE	CO2-4.5KG-1no, DCP-5KG-1 No.
109	TOWER WAGON	DCP-5KG-3nos
110	TIHIDI STATION	CO2 -4.5KG-1no DCP-5KG-1no
111	BANSADA STATION	CO2 -4.5KG-3nos
112	LC-26, NEAR DI ROAD	CO2 -4.5KG-1no
117	KOCHILA OFFICE	CO2-4.5KG-2Nos DCP-5KG-2nos
118	BRAMHANI OFFICE	CO2 -4.5KG-1no DCP-5KG-1no
119	KANIKA TRANSFORMER	CO2 -4.5KG-1no, DCP5KG-1NO.
120	S. CONTAINER, NEAR MAIN GATE	CO2 -4.5KG-1no DCP-5KG-1no
121	FIRST AID CENTER	CO2 -4.5KG-1no DCP-5KG-1no
122	DPCL AMBULANCE(OLD)	DCP-5KG-1no.
123	DPCL AMBULANCE(NEW)	DCP-5KG-1no.
124	RAILWAY GSS	CO2 -4.5KG-1no DCP-5KG-1no
125	RUNNING ROOM	CO2 -4.5KG-1no DCP-5KG-1no
126	SAFETY INDUCTION HALL	CO2 -4.5KG-1no
127	FCC GODOWN	CO2 -4.5KG-19nos,DCP-5KG-03nos,Foam-9ltr-3nos,Foam 50 ltr.-1
128	FCC OFFICE	CO2 -4.5KG-1no DCP-5KG-1no
129	FCC CANTEEN	DCP-5KG-1no
130	WAISTAGE OIL STORE	Foam-9ltr-1no,CO2 4.5KG-01NO
131	LABOUR REST HOUSE	CO2 -4.5KG-1no
132	SS-6	CO2 -4.5KG-16nos DCP-5KG-10nos, Foam-50ltr-1no
133	COLONY PUMP HOUSE	CO2 -4.5KG-1no
134	BHADRAK GUEST HOUSE	CO2 -4.5KG-1no DCP-5KG-1no
135	BBSR OFFICE	CO2 -4.5KG-3nos DCP-5KG-4nos
136	BBSR GUEST HOUSE	CO2 -4.5KG-1no DCP-5KG-1no.
137	ADANI RAILWAY ENGINE	CO2 4.5KG-1, DCP-5KG-01 NO.
138	WASTE SHED	DCP5KG-1 NO, FOAM9LTR-1 NO.
139	FCC TRANSFERMER	DCP5KG-01 NO,CO2 4.5KG-01 NO
140	FCC LABOUR COLONY	CO2-4.5KG-01 NO, DCP5KG-02NOS.
141	SS-7	CO2 -4.5KG-9nos
142	SS-8	CO2 -4.5KG-9nos, DCP-5KG-02Nos
143	SS-9	CO2 -4.5KG-16nos, DCP-5KG-06Nos
144	TP-7(A)	CO2 -4.5KG-1no
145	TP-8(A)	CO2 -4.5KG-1no
146	TP-1(C)	CO2 -4.5KG-1no
147	TP-2(C)	CO2 -4.5KG-1no
148	TP-3(C)	CO2 -4.5KG-1no
149	North Gate	CO2 -4.5KG-3nos, DCP-5KG-01No
150	Mobile Equipment Office, BMH	CO2 -4.5KG-1no
151	DPCL Central Store	Foam 50ltr-01 No, DCP5kg-01 No.
152	Fire pump house (T. HOPPER)	CO24.5kg-01 No, DCP5kg-01 No.
153	FCC Workshop	CO24.5kg-02 Nos, DCP5kg-02 Nos.
154	Township Shopping Mall	DCP5kg-03 Nos, CO2-4.5kg-01 no.
155	CAT Dozer	DCP6KG-01 Nos
Total Fire Extinguisher Installed at site		CO2-4.5kg=316Nos CO2-3kg =05nos DCP-6/5kg=187nos DCP-2kg=04nos DCP 25kg-02nos Foam-9ltrs=17nos

	Foam -50ltrs =06nos
Stock Balance Fire Tender and Fire Store	CO2 (4.5kg) =97nos CO2 (3kg) =5nos DCP (ABC)-6kg=161nos DCP (ABC)-2kg=6nos DCP-25kg=08nos Foam(45ltrs) =05nos Foam (50ltrs) =02nos Water Mist(50ltrs) = 01 no. Water Mist(09ltrs) = 01 no.
Total Numbers fire Extinguisher	DCP Extinguisher= 325 Nos CO2 Extinguisher= 399 Nos Foam Extinguisher= 30 Nos Water Mist= 02 Nos

SL.No.	Description of mock drills and training	Numbers of training & mock drill conducted	Numbers of participants
1	Emergency Rescue mock drill	06	140
2	Safety Induction Training	235	3429
3	Portable fire Extinguisher training	6	622
4	Defensive driving training	1	7
5	Toolbox training	543	4869
6	On the Job Safety Awareness	24	240

Fire Crews member:-

SI No	Position	Total
01	Fire Officer	01
02	Fire Supervisor	02
03	Fire tender Operator	06(02 Post is now Vacant)
04	Leading fireman	05(01 post is now Vacant)
05	Fire man	26
		Total Fire Crews- 41

Fire Tender Details:-

SI No	Fire Tenders	Water tank Capacity	Foam tank Capacity
01	OR-22D-8145	4500 ltr	500 ltr
02	OD-22T-3231	5000 ltr	1000 ltr
03	TO-524HR9959AJ	5000ltr	1000ltr

FIRE EXTINGUISHER TRAINING



EMERGENCY RESCUE MOCK DRILL AT SITE



ANNEXURE IX



**OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS (WILDLIFE)
& CHIEF WILDLIFE WARDEN, ODISHA**

Government of Odisha, Forest, Environment & Climate Change Department

PRAKRUTI BHAWAN, PLOT NO.1459, SAHEED NAGAR, BHUBANESWAR- 751007

Phone: 0674-2602250, Website: www.wildlife.odisha.gov.in, Email: odishawildlife@gmail.com

No. 12945 / CWLW-FDWC-MISC-0002-2024

Dated, Bhubaneswar the 01 Nov October, 2024

To

The Chief Executive Officer
M/s. Dhamra Port Company Limited
At- Dosinga, PO- Dhamra, Bhadrak

Sub: Development of Dhamra Port at Dosinga under Chandbali Tahasil of Bhadrak District in favour of M/s Dhamra Port Company Limited- Approval of SSWLCP.

Sir,

I am directed to convey the approval of PCCF (WL) & CWLW, Odisha for the Site Specific Wildlife Conservation Plan at a total financial outlay of ₹862.20 Lakh (Rupees Eight Crore Sixty-two Lakh Twenty Thousand) only as per the details of activities mentioned in Chapter-VI of the Plan prepared in compliance to Condition No. B-I (i) of the EC & CRZ Clearance Order F. No. 11-104/ 2009-IA-III dated 15.11.2019 granted by MoEF&CC.

Sl. No.	Name of the Division	Approved cost
1.	Bhadrak Wildlife Division	₹382.20 Lakh
2.	Mangrove Forest Division (WL), Rajnagar	₹480.00 Lakh
Total:		₹862.20 Lakh

As the project area does not involve any forest land, modalities for deposit of cost of the Plan shall be issued after obtaining Government approval.

2. Activities in the project area as per Chapter-VI of the Plan will be executed by the Project Proponent under the guidance of the concerned DFOs. Further, the User Agency shall deposit 5% of the plan cost over and above in the A/c. of the society "The Wildlife Odisha" maintained in this office towards unforeseen interventions.

P.T.O.

3. The Plan period is five years and will be revisited by the concerned DFOs at least one year before expiry of its implementation. The User Agency will bear the cost of such Plan on its approval. Further, the User Agency will bear additional cost, if any, towards enhancement of wage rate and escalation of price of materials at the time of implementation of this Plan. In case of any deviation, it will be dealt as per law for violations of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980, Environment (Protection) Act 1986 and Wildlife (Protection) Act 1972.

Encl.: Copy of the approved SSWLCP.

Yours faithfully,


 21/09/2024

Chief Conservator of Forests (WL-III)

Memo. No. 12946 / Dt. 01/11/2024

Copy forwarded for information and necessary action to the: -

1. OSD-cum-Special Secretary to Government of Odisha, FE&CC Department, Bhubaneswar.
2. PCCF (FD & NO, FC Act), O/o the PCCF & HoFF, Odisha, Bhubaneswar.
3. Regional Chief Conservator of Forests, Bhubaneswar Circle along with copy of the approved SSWLCP with reference to his office Memo No. 2962 dated 21.09.2024.
4. Divisional Forest Officer, Bhadrak Wildlife Division along with copy of the approved SSWLCP with reference to Memo No. 2964 dated 21.09.2024 of the RCCF, Bhubaneswar Circle.
5. Divisional Forest Officer, Mangrove Forest Division (WL), Rajnagar along with copy of the approved SSWLCP with reference to Memo No. 2963 dated 21.09.2024 of the RCCF, Bhubaneswar Circle.
6. Deputy Conservator of Forests (Administration), O/o. the PCCF(WL) & CWLW, Odisha. He is requested to raise demand to the User Agency for deposition of ₹43.11 Lakh as contribution to the account of the society "The Wildlife Odisha".

 21/09/2024

Chief Conservator of Forests (WL-III)

ANNEXURE X

Environmental Policy

Adani Ports and Special Economic Zone Limited's (APSEZ) environmental responsibilities are driven by its commitment to preserve the environment and are integral to the way we do business. We shall strive to integrate best environmental practices across APSEZ's management and governance systems to minimize environmental impacts and attain a leadership position in environmental stewardship.

APSEZ, its subsidiaries, joint ventures, suppliers, service providers and contractors shall keep its commitment to:

- Build and operate the facilities in compliance with all applicable environmental laws, regulations, obligations and endeavor to go beyond compliances.
- Identify and evaluate environmental and climate impacts and their associated risks for all activities including distribution & logistics and formulate a mitigation strategy.
- Define roles and responsibilities for implementing environmental management policy.
- Conduct training for employees to understand the impacts of business activities on the environment.
- Continually improve the environmental performance by setting objectives, targets and processes for efficient use of natural resources, waste management and minimization, emission reduction, noise level control and pollution prevention.
- Conserve and protect environment in and around of our operational sites in consultation with stakeholders.
- Conduct environmental due diligence for new and expansion of existing projects, mergers and acquisitions by set procedures.
- Create environmental awareness through continuous engagement and training with stakeholders including employees, customers, suppliers, service providers, contractors and local communities.
- Measure, monitor, review and report the environmental performance and issues of the organization in accordance with this policy at regular intervals and audit (internal/ external) before communicating to relevant stakeholders.

Date: August 09, 2023


Karan Adani

Whole-Time Director & CEO

ANNEXURE XI



DFDS at Ship Unloaders



Dust Buster at Stock Yard



Pre wetting system of wagons



DFDS at Conveyor Belt



Tractor Sweeping Machine



Rain Guns at Stack Yard



Colour Coded Bins at Site



Biomedical Waste Segregation



Translucent Sheets for bigger sheds



First Aid Center



Rooftop Solar Panel



Acoustic DG Set



LED Lights



Central AC



Variable frequency drive Room



Oil Spill Drill



Oil Spill Drill



Oil Spill Drill



Oil Spill Drill



Vacuum Sweeping Machine

ANNEXURE XII

Certificate

Zero Waste to Landfill

Dhamra Port Company Limited

This is to certify that *Dhamra Port Company Limited, Adani Dhamra Port, Dosinga, Dhamra, Bhadrakh, Odisha* has the best waste management practices with the achievement of a waste diversion rate of above 99% in the year 2021-22.

This Certificate is valid from 01 August 2022 to 31 July 2025 subject to a satisfactory annual surveillance assessment.



Seema Arora
Deputy Director General
Confederation of Indian Industry (CII)
Centre of Excellence for Sustainable Development (CESD)

Certificate Date: 30 June 2022

Certificate No.: CII/ZWL/2022/001

This certificate has been awarded after the company fulfilled the requirements for zero waste to landfill practice and provided evidence for it. Responsibility for the data provided to CII rests solely with the company. The conditions of certification are detailed in the Annex.

ANNEXURE XIII



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	M/s Dhamra Port Company Ltd (phase-ii)		
Project Address:	At/po: Dosinga, Via: Dhamra		
Village:	Dosinga	Block:	Chandabali
District:	Bhadrak	State:	Odisha
Pin Code:			
Communication Address:	Mr Santosh Kumar Nayak C/o M/s Dhamra Port Company Ltd (infra-2), At/po:dosinga, Via:dhamra, Chandabali, Bhadrak, Odisha - 756171		
Address of CGWB Regional Office :	Central Ground Water Board South Eastern Region, Bhujal Bhawan, Khandagiri Square, Nh-5, Bhubaneshwar, Khordha, Odisha - 750001		

1.	NOC No.:		CGWA/NOC/INF/ORIG/2023/18830				2.	Date of Issuance		14/07/2023					
3.	Application No.:		21-4/4846/OR/INF/2023				4.	Category: (GWRE 2022)		Saline					
5.	Project Status:		New Project				6.	NOC Type:		New					
7.	Valid from:		14/07/2023				8.	Valid up to:		13/07/2028					
9.	Ground Water Abstraction Permitted:														
Fresh Water			Saline Water				Dewatering			Total					
m³/day		m³/year		m³/day		m³/year		m³/day		m³/year		m³/day		m³/year	
490.00		178850.00													
10.	Details of ground water abstraction /Dewatering structures														
Total Existing No.:0							Total Proposed No.:5								
			DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Abstraction Structure*			0	0	0	0	0	0	0	0	0	5	0	0	
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps															
11.	Ground Water Abstraction/Restoration Charges paid (Rs.):							357700.00							
12.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.					No. of Piezometers		Monitoring Mechanism							
					Manual			DWLR**	DWLR With Telemetry						
**DWLR - Digital Water Level Recorder					1		0	1		0					

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

CENTRAL GROUND WATER AUTHORITY

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये – जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

CENTRAL GROUND WATER AUTHORITY
Department of Water Resources, River Development and Ganga Rejuvenation
Ministry of Jal Shakti, Govt. of India

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

Receipt

(As per the guideline Gazette Notification S.O. 3281(E) regarding the New Guidelines dated 24.09.2020 of CGWA, MoJS, Govt. of India)
<https://cgwa-noc.gov.in>

Application No.:	21-4/4846/OR/INF/2023		
Name of Firm:	M/S DHAMRA PORT COMPANY LTD (PHASE-II)		
AppType Category:	Ports		
Application Type:	Infrastructure		
PAN/GSTIN No. of Firm/Individual:	NA / NA		

S N	Description	Amount (Rs.)
1.	Application Processing Fee	10000.00
2.	Ground Water Abstraction /Restoration charges	357700.00
3.	Environmental Compensation Charges (ECRGW) (Date From to) Days-	
4.	Penalty for non-Compliance of NOC conditions Condition to be mentioned	
Rs. Rupees Three Lakh Sixty Seven Thousand Seven Hundred Only		367700.00

This is an system generated invoice, hence, does not require ink signed.

Term and conditions:

- All disputes are subject to Delhi Jurisdiction.
- Any complaint in regard to the rates will not be entertained

Member-Secretary
CGWA, New Delhi

ANNEXURE XIV

**ODISHA ELECTRICITY REGULATORY COMMISSION
BIDYUT NIYAMAK BHAWAN PLOT NO. 4, CHUNUKOLI, SHAILASHREE
VIHAR, BHUBANESWAR-751021**

**Present: Shri U. N. Behera, Chairperson
Shri S. K. Parhi, Member
Shri G. Mohapatra, Member**

Case No. 9/2021

**IN THE MATTER OF: Suo Motu Proceeding on sale of utility of NESCO under
Section 20 of the Electricity Act 2003 and for vesting of Utility
(NESCO) to the intending purchaser under Section 21 of the
said Act.**

And

IN THE MATTER OF:

Director (Regulatory Affairs), OERC
..... Designated Petitioner

Vrs.

Principal Secretary to Government,
Department of Energy, Government of Odisha,
Bhubaneswar -1 and Others Respondents

NESCO Power Engineer's Association
..... Intervenor

ORDER

Date of order: 25.03.2021

1. North Eastern Electricity Supply Company of Odisha Limited (the “NESCO”) was incorporated on 19th November 1997 under the Companies Act, 1956. Pursuant to the Odisha Electricity Reforms Act 1995 and Odisha Electricity Reforms Rules 1998, all the assets of GRIDCO pertaining to the distribution business in the Northern Zone of GRIDCO comprising districts of Balasore, Mayurbhanj, Keonjhar, Jajpur, and Bhadrak were transferred to NESCO.
2. On 1st April 1999, 51% (fifty one percent) shares of GRIDCO in NESCO were transferred to BSES Limited selected through competitive bidding process. NESCO continued to be managed by BSES Limited and later by its successor R-Infra

Limited.

3. Under Section 19 of the Electricity Act, 2003 (the “**Act**”), the Commission revoked license of NESCO with effect from Mar 2015 and appointed CMD, GRIDCO as the administrator under Section 20(d) of Act and vested the management and control of NESCO Utility along with their assets, interests and rights with the CMD, GRIDCO Limited. The order on revocation of licenses by the Commission was upheld by the Hon’ble APTEL in Appeal No. 64 of 2015 and has also been confirmed by the Hon’ble Apex Court vide their Order dated 24.11.2017 in Civil Appeal No.18500 of 2017.
4. Thereafter, in terms of Section 20 of Act the Commission initiated a transparent and competitive bidding process for selection of an investor for sale of utility of NESCO and had issued the updated Request for Proposal (the “**RFP**”) on 31.07.2020.
5. In response to the said RFP, single bid was received by the bid due date. After detailed evaluation by independent bid evaluation committee set up by the Commission, The Tata Power Company Limited (the “**TPCL**”) was recommended as the successful bidder and Commission accepted the same under Section 20(1)(a) of the Act.
6. Thereafter, the Commission issued a Letter of Intent (the “**LoI**”) to TPCL vide Letter No. OERC/RA/SALE of NESCO-26/2019(II)/160 dated 29.01.2021. TPCL communicated the acceptance of the LoI vide Letter No. T&D/BD/DOM/FY21/OERC/ NESCO/PPP/100 dated 05.02.2021.
7. That as per the terms of the RFP, upon completion of sale, NESCO Utility shall vest in a special purpose vehicle (the “**Project SPV**” or “**Operating Company**”) in which TPCL shall hold 51% (fifty one percent) equity shares and Government of Odisha (“GoO”) shall hold 49% (forty nine percent) equity shares through GRIDCO.
8. The Commission vide letter No. OERC/RA/SALE OF NESCO-26 /2019 (Vol.II)/162 dated 29.01.2021 then directed GRIDCO to incorporate the SPV to which the utility of NESCO shall be vested and license of NESCO Utility shall be transferred. TP Northern Odisha Distribution Limited (the “**TPNODL**”) will be incorporated as a wholly owned subsidiary of GRIDCO with an authorized share capital of Rs. 1000 crores (Indian Rupee One thousand crores) only and paid-up capital of Rs. 5 lakhs (Indian Rupee Five lakhs) only. TPNODL shall be the SPV in

which TPCL and GRIDCO shall hold 51% (fifty one percent) and 49% (forty nine percent) equity shares respectively after the completion of sale.

9. The Commission vide letter no. OERC/RA/SALE OF NESCO-26 /2019 (Vol.II)/162 dated 29.01.2021 provided GRIDCO/ OPTCL the RFP Documents namely – Share Acquisition Agreement, Shareholders Agreement, Bulk Supply Agreement and Bulk Power Transmission and SLDC Agreement for execution by concerned parties.
10. TPCL quoted a purchase price of Rs. 375 crores (Indian Rupee Three hundred seventy five crores) in its financial Bid in response to the RFP for 100% (one hundred percent) equity in the SPV. TPCL is required to pay 51% (fifty one percent) of the purchase price of Rs. 375 crores (Indian Rupee Three hundred seventy five crores) quoted in its Bid. As per terms of RFP, this amount is required to be deposited by TPCL with the Commission.
11. The Commission vide letter No. OERC/RA/SALE of NESCO-26/2019(II)/160 dated 29.01.2021 (LoI) had directed TPCL to submit the Performance Guarantee and deposit the amount equivalent to 51% (fifty one percent) of the purchase price with the Commission.
12. TPCL vide letter No. T&D/BD/DOM/FY21/OERC/NESCO/PPP/113 dated 10.03.2021 communicated that they have deposited Rs.191.25 (Indian Rupee One ninety one crore and twenty five lakhs only) with the Commission which is 51% of the bid amount of Rs. 375 crore and submitted the Performance Guarantee of Rs. 150 crores (Indian Rupee One hundred fifty crores) as per the directions of the Commission.
13. The Commission vide letter No. OERC/RA/SALE of NESCO-26/2019(II)/161 dated 29.01.2021 directed TPCL that it is required to comply with the requirements of the Competition Act, 2002 and furnish a certificate on such compliances to OERC. TPCL vide its letter No. No. T&D/BD/DOM/FY21/OERC/NESCO/PPP/106 dated 09.02.2021 informed the OERC that they have filed the notice with the Competition Commission of India (CCI) seeking its approval for the proposed transaction, which was acknowledged by the CCI on 08.02.2021. M/s TPCL vide its letter No. T&D/BD/DOM/FY21/OERC/NESCO/PPP/113 dated 19.03.2021 communicated to the OERC that CCI vide its e-mail dated 19.03.2021 to the TPCL intimated that it considered the proposed combination and approved the same under sub-section (1)

of Section 31 of the Act. This approval is with reference to the notice filed by the Tata Power Company Ltd. (TPCL/Acquirer) on 08.02.2021 under sub-section (2) of Section 6 of the Competition Act, 2002.

14. As per the proviso to Section 21(a) of the Act, the debt, mortgage or similar obligation shall attach to the purchase price in substitution for the utility of NESCO.
15. The transaction related costs shall be deducted by the Commission from the purchase price deposited with the Commission by TPCL. The transaction related costs shall include the fees paid to transaction advisor and legal advisor engaged by the Commission for advising in sale of utility of NESCO, the cost of incorporation of TPNODL, the fees of auditors for audit of the annual accounts for the period from 01.04.2020 to 31.03.2021 of NESCO Utility as provided in the para 51 of this Order and the cost of incorporation of a residual company in which the liabilities of NESCO Utility shall remain, if decided by the Commission and any other cost as determined by the Commission (the “**Transaction Process Costs**”).
16. On 10.03.2021, the Director (Regulatory Affairs), OERC initiated the suo-motu petition as the Designated Petitioner with the following prayers to the Commission:
 - (a) To issue suitable directions to give effect to the vesting of utility of NESCO to TPNODL as per Section 21(a) of the Act.
 - (b) To issue suitable directions for attachment of purchase price to debt, mortgage or similar obligation of NESCO Utility as per proviso to Section 21(a) of the Act.
 - (c) To issue suitable directions for transfer of rights, powers, authorities, duties and obligations of the license under the license of NESCO Utility to TPNODL as per Section 21(b) of the Act.
17. The petition also stated that the following are required to be complied as per the provisions of the Act and the conditions of RFP:
 - (a) The paid-up share capital of TPNODL shall be Rs. 250 crores (Indian Rupee Two hundred and fifty crores) only. This is the reserve price for the utility as per the RFP.
 - (b) TPCL shall hold 51% (fifty one percent) equity shares and GRIDCO shall hold 49% (forty nine percent) equity shares in TPNODL. Share Acquisition

Agreement and Shareholders Agreement shall be executed to this effect between TPCL and GRIDCO.

- (c) The Bulk Supply Agreement shall be executed between TPNODL and GRIDCO and the Bulk Power Transmission and SLDC Agreement shall be executed between TPNODL and Odisha Power Transmission Corporation Limited (the “**OPTCL**”).
 - (d) NESCO Utility shall be sold to TPNODL and the purchase price shall be received by the Commission. The Transaction Process Costs shall be deducted by the Commission from the purchase price deposited with the Commission by TPCL. As per Section 21(a) of the Act, such purchase price shall attach to the debt, mortgage or similar obligation of utility of NESCO. Remittance of this amount shall be as approved by the Commission.
 - (e) The Administrator of NESCO Utility shall deliver the utility to TPNODL on 01.04.2021.
 - (f) The Administrator of NESCO Utility shall be required to make available its provisional balance sheet as on 31.03.2021.
 - (g) An opening balance sheet for TPNODL shall be carved out from the balance sheet of NESCO Utility as on 31.03.2021 to effect the transfer of the utility to TPNODL. The carved out balance sheet shall be as per the broad principles laid out in Annexure - 1.
18. The Commission decided to dispose of the petition registered as Case No. 09/2021 through a hearing of the concerned parties namely NESCO Utility, TPCL, GRIDCO, OPTCL and the Government of Odisha and accordingly issued notice to the parties directing them to file written submissions to the suo-motu petition and appear for the hearing on 18.03.2021. Accordingly, the parties have filed their written responses.
19. The NESCO Power Engineer’s Association requested the Commission to implead them as respondent in the proceeding. The Commission allowed the intervener to take part in the proceedings.
20. GRIDCO submitted its response with prayers related to suitable addressal of past dues on account of power purchase, non-servicing of loan and other dues. GRIDCO submitted that the arrear collection as committed by TPCL may be prioritised for

paying/ settling the outstanding dues of GRIDCO. GRIDCO suggested that TPCL may maintain a separate account for deposit and utilisation of the arrear towards GRIDCO dues with periodical reconciliation on quarterly/ monthly basis. GRIDCO further submitted that the Commission may consider recognising the net receivable after adjustment of the purchase and committed arrear collection by the operating company as on effective date as 'Regulatory Assets' and keep provision for amortisation of the same in future against the revenue gain to be achieved on AT&C loss trajectory as committed by the purchaser. GRIDCO has also submitted to frame an appropriate payment security mechanism for recovery of outstanding dues. GRIDCO has also submitted regarding payment of current dues of GRIDCO, Government of Odisha CAPEX Scheme loan outstanding, charge on current revenue in case of default in payment of BSP dues after utilising LC and PBG and capital expenditure committed by the TPCL.

21. OPTCL submitted that the Commission may issue appropriate orders making the successor organisation liable for making payment of revised transmission charges other applicable charges to OPTCL, if any prior to the date of vesting in case the energy quantum is revised by SLDC. OPTCL further submitted that the successor organisation be made liable for payment of any other dues of OPTCL receivable from NESCO which may appear in due course of transmission related activity of OPTCL.
22. TPCL filed its response with prayers such as removal of lien on escrow accounts, removal of corporate guarantee, mitigation of any tax impact on Deemed Licensee for subscription of equity in kind by GRIDCO, indemnification of TPCL from any claim of third party in relation to acquisition of the controlling stake in Deemed Licensee including the acquisition of controlling stake being stayed or reversed by a court of law (both in SAA & SHA), relaxation in AT&C loss levels and adjustment of the recovery of past arrears provided during the bidding process due to change in arrears in case any amnesty scheme/ Government scheme is launched.
23. Representatives from NESCO Power Engineer's Association submitted that the Commission may order to protect service condition of the employees which shall be applicable and continuance of present service regulation, for future post creations and appointment, no parallel cadre, adoption of DA as per State Government declaration, no lateral entry in any cadre, transparent recruitment process, no

modification or review of the AT&C loss target fixed by the Commission, restriction on creation of charge over any assets of NESCO, the new company to come under purview of CAG audit and RTI to ensure public trust and transparency and the vesting order to attain finality after acceptance and no further application for modification or review be entertained by the Commission.

24. The Commission conducted a hearing of the parties under suo-motu proceedings through video conference on 18.03.2021 in which the respondents as well as intervenors were heard by the Commission.
25. In the written submissions filed by the respondents, the Commission has observed that the respondents have agreed to enter into the following agreements:
 - (a) Share Acquisition Agreement shall be signed amongst GRIDCO, TPNODL and TPCL;
 - (b) Shareholders Agreement shall be signed between GRIDCO and TPCL;
 - (c) Bulk Supply Agreement shall be signed between GRIDCO and TPNODL; and
 - (d) Bulk Power Transmission and SLDC Agreement shall be signed between OPTCL and TPNODL.
26. The Commission further observed the following from the submissions made by the parties:
 - (a) TPNODL has been incorporated with an authorised share capital of Rs. 1000 crore and a paid-up share capital of Rs. 5 lakhs (Indian Rupee Five lakhs) only.
 - (b) The trade payables to GRIDCO (in the books of NESCO Utility) amounting to Rs. 249.95 crores (Indian Rupee Two hundred forty nine crores and ninety five lakhs) shall be converted to equity share capital of TPNODL. With this, the equity share capital shall be Rs. 250 crores (Indian Rupee Two hundred crores) only as required for the transaction. NESCO Utility has stated that it shall comply with the directions of the Commission in this regard. The Commission is concluding that the proposed transaction structure has been agreed among all the parties- GRIDCO, NESCO Utility and TPCL.
 - (c) As per the Share Acquisition Agreement, TPCL shall acquire 51% (fifty one percent) of the equity shares of TPNODL. Therefore, TPCL and GRIDCO

shall hold 51% (fifty one percent) and 49% (forty nine percent) of the equity shares respectively in TPNODL with effect from 01.04.2021.

- (d) The utility and license of NESCO Utility shall be transferred to TPNODL on 01.04.2021.
- (e) GRIDCO and TPNODL shall execute the Bulk Supply Agreement on or before 01.04.2021. This agreement incorporates the terms of RFP related to power procurement conditions and establishment of payment security mechanism(s).
- (f) OPTCL and TPNODL shall execute the Bulk Power Transmission and SLDC Agreement on or before 01.04.2021. This agreement incorporates the terms related to payment of transmission and SLDC charges and establishment of payment security mechanism(s).
- (g) The purchase price after deducting Transaction Process Costs determined by the Commission shall be remitted to GRIDCO for extinguishment of past liabilities of NESCO and NESCO Utility towards power purchase cost from GRIDCO. NESCO Utility shall comply with the directions of the Commission in this regard.
- (h) From the provisional accounts of NESCO Utility as of 31.03.2021, a provisional opening balance sheet for the utility transferred to TPNODL shall be prepared. This shall be done in accordance with the principles laid out in the Annexure - 1. Thereafter based on statutory audit of NESCO Utility, the provisional accounts of NESCO Utility as of 31.03.2021 shall be updated to prepare the final accounts. This shall be done on or before 30.09.2021 and shall be submitted to the Commission. From the final accounts of NESCO Utility, the actual opening balance sheet of TPNODL shall be finalized based on the principles as laid out in Annexure – 1 and shall be submitted to the Commission.
- (i) As per the Shareholders Agreement, TPCL and GRIDCO shall maintain 51% (fifty one percent) and 49% (forty nine percent) shareholding respectively at all times and any future equity investment from GRIDCO in TPNODL shall be either in form of cash, kind or any other consideration as decided by GRIDCO in accordance with the Shareholders Agreement.

- (j) The RFP provided the principles for carving out the balance sheet of TPNODL from the balance sheet of NESCO Utility. Following these principles, an indicative opening balance sheet as of 01.04.2020 had been prepared based on the latest audited accounts of NESCO Utility as of 31.03.2020. The revised provisional opening balance sheet of the proposed Operating Company as of 01.04.2020 has been prepared and is provided at Annexure – 2.

27. The Commission has taken cognizance of the communications and submissions of all the parties till date and now issues this Vesting Order.

ORDER OF THE COMMISSION

28. As per Section 21(a) of the Act, the utility of NESCO shall be vested in TPNODL with effect from 01.04.2021 (the “**Effective Date**”) subject to completion of sale and delivery of the utility to TPNODL.
29. The Commission approves the transaction structure proposed by the parties. TPNODL has been incorporated with a paid-up share capital of Rs. 5 lakhs (Indian Rupee Five lakhs). The trade payables to GRIDCO (in the books of NESCO Utility) amounting to Rs. 249.95 crores (Indian Rupees Two hundred forty nine crores and ninety five lacs) only shall be converted to equity share capital of TPNODL. With this, the equity share capital shall be Rs 250 crores (Indian Rupee Two hundred fifty crores) only. TPCL shall purchase equity shares equivalent to 51% (fifty one percent) of the equity share capital in TPNODL from GRIDCO at the premium of Rs. 63.75 crores (Indian Rupee Sixty three crores and seventy five lakhs) only by paying to GRIDCO an amount of Rs. 191.25 crores (Indian Rupee One hundred ninety one crores and twenty five lakhs) only.
30. The amount of Rs. 191.25 crores (Indian Rupee One hundred ninety one crores and twenty five lakhs) only is already deposited by TPCL with the Commission as per the requirement of RFP documents. The Commission shall, after vesting of utility of NESCO with TPNODL, remit the amount after deducting the Transaction Process Costs incurred by the Commission for the sale process directly to GRIDCO. Suitable accounting adjustments may be made in the financial statements of NESCO Utility and GRIDCO to this effect.
31. If the Administrator of NESCO Utility delivers the utility to TPNODL but the sale does not get completed in its entirety by 01.04.2021, TPNODL shall, as per Section

20(4) of the Act, operate and maintain the utility for a maximum period of upto 7 (seven) days from 01.04.2021, pending completion of transaction. In case transaction is not completed in its entirety within such extended period, then the Commission may, at its discretion, either grant extension on day by day basis or cancel the LoI. The decision of the Commission shall be final in this regard.

TERMS OF VESTING

32. As per Section 21(a) of the Act, the utility shall vest in TPNODL free from any debt, mortgage and similar obligation of NESCO and NESCO Utility except for certain serviceable liabilities that are being transferred to TPNODL along with mechanism for funding of such liabilities as provided in para 52 of this Order.
33. As per Section 21(b) of the Act, the rights, powers, authorities, duties and obligations of the license under NESCO Utility's license shall stand transferred to TPNODL on Effective Date upon delivery of utility on the same date. The amended license shall be issued by the Commission within 90 (ninety) days from the Effective Date.
34. With the transfer of utility of NESCO and license, the rights and responsibilities of NESCO utility shall transfer to TPNODL with effect from 01.04.2021.
35. Performance Guarantee
 - (a) As per the terms of RFP, TPCL has provided to the Commission Performance Guarantee of Rs. 150 crores (Indian Rupee One hundred and fifty crores) with following details:
 - (i) Bank Guarantee (PBG) No. OGT0005210052060 for an amount of Rs. 110 crores (Indian Rupees One hundred and ten crores) from INDUSIND BANK LTD., 78 Janpath, Kharvelnagar, Bhubaneswar with expiry date of 31.03.2024 and claim date of 31.03.2025.
 - (ii) Bank Guarantee (PBG) No. 0393NDLG00261821 for an amount of Rs. 40 crores (Indian Rupees Forty crores) from ICICI Bank Ltd., Mega Branch, Bhubaneswar with expiry date of 31.03.2024 and claim date of 31.03.2025.
 - (b) As per the terms of the RFP, the Performance Guarantee(s) shall be renewed till the completion of 15 (fifteen) years from the Effective Date by TPCL at

least 30 (thirty) days before the expiry date of such Performance Guarantee.

- (c) Upon satisfactory performance of TPNODL for a period of 5 (five) years from the Effective Date, and TPNODL having met all its obligations in regard to the performance and commitments made as part of its Bid in response to the RFP as determined by the Commission in performance review as per para 57 of this Order, the value of the Performance Guarantee shall be reduced to half of the original amount in para 35(a) above i.e. Rs. 75 crores (Indian Rupee Seventy five crores).
- (d) The existing bank guarantee as per clause 35(a) shall be returned to TPCL on submission of a revised Performance Guarantee of Rs. 75 crores (Indian Rupee Seventy five crores) by TPCL which shall initially be valid for 3 (three) years and thereafter renewed every year by TPCL till the end of the 10th (tenth) year from the Effective Date.
- (e) Further, the Commission, on satisfactory performance of TPNODL between the 6th (sixth) and the 10th (tenth) year of operations, may further reduce the Performance Guarantee to 25% (twenty five percent) of the original amount in para 35(a) above i.e. to Rs 37.5 crores (Indian Rupee Thirty seven crores and fifty lakhs). The same shall be required to be maintained by TPCL till the end of the 15th (fifteenth) year from the Effective Date.
- (f) The reduced Performance Guarantee shall be refunded to TPCL at the end of the 15th (fifteenth) year from the Effective Date.
- (g) TPCL shall restore the Performance Guarantee to its original amount within 30 (thirty) days of its being encashed. Failure to restore the Performance Guarantee to its original value shall result in non-compliance of the license conditions and the Commission shall then act as per the relevant provisions provided under the Act.
- (h) The Performance Guarantee may be encashed for any reasons as follows:
 - (i) Failure to meet loss reduction target as specified in para 40(b);
 - (ii) Failure to collect Past Arrears as per para 43(e);
 - (iii) Failure to pay the Bulk Supply Price and Transmission Charges as per para 37 and 38; or

- (iv) Any other reason as mentioned in the RFP and required under the license conditions.

36. Power Procurement conditions

- (a) GRIDCO, a wholly owned company of the State Government, is engaged in the business of purchase of electricity in bulk from various Generators located inside and outside Odisha and the State share of power from the Central Generators for supply in bulk to the four distribution utilities in the State. Pursuant to the Government of Odisha notification No. PPD-II-2/05 (pt) 7947, Bhubaneswar dated 17.08.2006, GRIDCO is notified as the “State Designated Entity” to sign the Power Purchase Agreements (PPA) for procurement of all forms of power from different Generators. The terms of sale of power by GRIDCO to TPNODL shall be governed under the Bulk Supply Agreement.
- (b) In order to fulfil its obligation as the bulk supplier in the State, GRIDCO has signed PPAs to meet the existing as well as future demand of power for the retail supply licensees in the State. As of 24.06.2020, the list of PPAs tied up by GRIDCO along with details, such as quantum, supply start date and supply end date are as provided in Annexure - 4.
- (c) If in the opinion of GRIDCO, at any time during the term of license of TPNODL, the PPAs provided in Annexure – 4 are insufficient to meet the power purchase requirement of the retail supply licensees, then GRIDCO may sign additional PPAs with prior consultation with TPNODL, other retail supply licensees in the State and prior approval of the Commission. Such consultation shall also be required in case GRIDCO signs any PPAs to procure power from renewable energy sources to fulfil its Renewable Purchase Obligation targets set under the regulations and orders of the Commission.
- (d) Till the time GRIDCO expresses its ability to meet the power purchase requirement of TPNODL from the PPAs provided in Annexure - 4 and any additional PPAs signed as per para 36(c) above, TPNODL shall be obligated to meet the full extent of its power purchase requirement from such PPAs from GRIDCO.
- (e) In case GRIDCO conveys, in writing, its inability to make available any quantum of power requisitioned by TPNODL, such incremental quantum may

be procured directly by TPNODL from alternative source, provided that such alternative source is selected through a transparent and competitive process and with the prior approval of the Commission.

37. Payment security mechanism for payment of BSP bills

- (a) In order to ensure security to GRIDCO for payment of its Bulk Supply Price (BSP) bills in full, TPNODL would need to provide GRIDCO with a revolving letter of credit facility backed by necessary security including Corporate Guarantee, if required, by the TPCL for an amount equivalent to the average BSP bills of 2 (two) months as a primary payment security mechanism. This Letter of Credit would be opened and maintained as per the provisions laid out in the Bulk Supply Agreement.
- (b) In case of failure of GRIDCO to recover its dues through this letter of credit mechanism, it can approach the Commission with a request to encash the Performance Guarantee to the extent of the shortfall in the payment of BSP bills. Encashment of the Performance Guarantee would be at the sole discretion of the Commission. Upon encashment, TPCL shall be required to replenish the Performance Guarantee to its original value as provided in para 35(g) of this Order. The Commission shall provide TPNODL and/or TPCL with a reasonable opportunity to be heard before encashment of Performance Guarantee.

38. Payment security mechanism for payment of transmission and SLDC charges

- (a) In order to ensure security to OPTCL for payment of transmission and SLDC charges in full, TPNODL would need to provide OPTCL with 2 (two) separate revolving letters of credit facilities backed by necessary security including Corporate Guarantee, if required, by the TPCL as payment security for transmission charges and SLDC charges. The amount of letters of credit shall be equivalent to the average transmission charges and average SLDC charges of 2 (two) months respectively. These letters of credit would be opened and maintained as per the provisions laid out in the Bulk Power Transmission and SLDC Agreement.
- (b) In case of failure of OPTCL to recover its dues through this letter of credit mechanism, it can approach the Commission with a request to encash the

Performance Guarantee to the extent of the shortfall in the payment of transmission charges and SLDC charges. Encashment of the Performance Guarantee would be at the sole discretion of the Commission. Upon encashment, TPCL shall be required to replenish the Performance Guarantee to its original value as provided in para 35(g) of this Order. The Commission shall provide TPNODL and/or TPCL with a reasonable opportunity to be heard before encashment of Performance Guarantee.

39. Capital investment plan

- (a) The RFP required the bidders to provide a capital expenditure plan for first 5 (five) years of licensed operations as part of their bid.
- (b) In its Bid submitted in response to the RFP, TPCL committed capital expenditure of Rs. 1,270 crores (Indian Rupee One thousand two hundred and seventy crores) only for period FY 2021-22 to FY 2025-26 as follows:

Table 1: Capital Expenditure Commitment by TPCL

Capex Commitment (INR Cr)					
FY22	FY23	FY24	FY25	FY26	Total
246	376	259	247	141	1,270

- (c) To allow flexibility in the capital expenditure planning, the Commission stipulates that, in the capital expenditure plan to be submitted by TPNODL as per the license conditions, the capital expenditure commitment for each year of the period FY 2021-22 to FY 2025-26 must be such that capital expenditure proposed up to a year shall be at least equal to the cumulative capital expenditure committed up to that year in the Bid submitted by TPCL. For avoidance of doubt, the minimum cumulative capital expenditure to be proposed by TPNODL for the period FY 2021-22 to FY 2025-26 must be as provided in the table below:

Table 2: TPCL Cumulative Capital Expenditure for 5 years

Cumulative Capex Expenditure (INR Cr)				
Upto 31-Mar-2022	Upto 31-Mar-2023	Upto 31-Mar-2024	Upto 31-Mar-2025	Upto 31-Mar-2026

Cumulative Capex Expenditure (INR Cr)				
Upto 31-Mar-2022	Upto 31-Mar-2023	Upto 31-Mar-2024	Upto 31-Mar-2025	Upto 31-Mar-2026
246	622	882	1,129	1,270

- (d) TPNODL would be required to seek the Commission's approval on the detailed capital expenditure plan in line with the regulations. TPNODL shall satisfy the Commission that the capital expenditure plan submitted in line with regulations adheres to the capital expenditure plan submitted as part of the Bid.
- (e) The Commission will evaluate the performance of TPNODL at the end of 3rd (third) and 5th (fifth) financial year of operation. Failure to incur cumulative committed capex or meet the timelines committed as part of Bid may lead to imposition of a penalty which may be in the form of encashment of Performance Guarantee. However, before encashment of Performance Guarantee, the Commission will notify TPCL and will allow TPCL to wire transfer the penalty amount within notified timelines. Failure to transfer the amount within the timelines will lead to encashment of Performance Guarantee. Upon encashment, TPCL shall be required to replenish the Performance Guarantee to its original value as provided in para 35(g) of this Order. The Commission shall provide TPNODL and/ or TPCL with a reasonable opportunity to be heard before encashment of Performance Guarantee.
- (f) The penalty amount from wire transfer or encashment of TPCL's Performance Guarantee shall be transferred to the TPNODL and the same shall be deducted by the Commission during the true-up process or future Aggregate Revenue Requirement so that the benefit of the penalty amount, so collected, is passed on to consumers.
- (g) The capital investments made by TPNODL shall be allowed recovery of depreciation in line with the rates prescribed in Annexure – 3 till the time applicable regulation is notified by the Commission. The depreciation rates specified in regulations shall prevail over the rates specified in Annexure – 3 as and when applicable regulation is notified by the Commission.
- (h) Depreciation on all existing assets transferred to TPNODL shall be determined based on the existing methodology being followed by the Commission.

- (i) The funding on account of the various ongoing schemes of the Government of Odisha will be made available to TPNODL as and when available and applicable.

40. AT&C loss targets

- (a) As per terms of the RFP, the bidders were required to provide AT&C loss trajectory for first 10 years of operations i.e. FY 2021-22 to FY 2030-31 with the condition that the AT&C loss level in FY 2023-24 and FY 2025-26 shall not be higher than 21.5% and 16.0% respectively. As part of its Bid, TPCL has provided the AT&C loss reduction trajectory shown in the following table:

Table 3: AT&C Loss Trajectory Commitment by TPCL

AT&C Loss Trajectory (%)									
FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31
24.32	22.32	20.80	17.80	15.50	12.50	11.50	10.50	9.50	8.90

- (b) As stated in the RFP, the Commission shall review the performance of TPNODL at the end of FY 2023-24 and FY 2025-26 to ascertain whether the committed AT&C loss targets have been achieved. In case of failure to achieve the targets, the Commission shall have the right to recover the penalty amount by encashing the Performance Guarantee for any shortfall in meeting the AT&C loss targets committed by TPCL in its Bid and/or revoke the license of TPNODL. TPCL shall be liable to pay a penalty of Rs. 40 crores (Indian Rupee Forty crores) for every 1% (one percent) shortfall in meeting the committed AT&C loss targets, or proportionately for a part thereof, found as a result of the Commission's review at the end of the FY 2023-24 and FY 2025-26. For the purpose of clarity, for example, if at the end of FY 2023-24, TPNODL has achieved an AT&C loss of 22.00%, vis-à-vis the committed target of 20.80% (being the committed AT&C loss for FY 2023-24 provided in Table 3), an amount of Rs. 48 crores, being [Rs. 40 crores x (22.00 – 20.80)], shall be recovered by the Commission by way of encashment of the Performance Guarantee. However, before encashment of Performance Guarantee, the Commission will notify TPCL and will allow TPCL to wire transfer the penalty amount within notified timelines. Failure to transfer the amount within the timelines will lead to encashment of Performance

Guarantee. Upon encashment, TPCL shall be required to replenish the Performance Guarantee to its original value as provided in para 35(g) of this Order. The Commission shall provide TPNODL and/or TPCL with a reasonable opportunity to be heard before encashment of Performance Guarantee.

- (c) The penalty amount from wire transfer or encashment of TPCL's Performance Guarantee shall be transferred to the TPNODL and the same shall be deducted by OERC during the true-up process or future Aggregate Revenue Requirement so that the benefit of the penalty amount, so collected, is passed on to consumers.
- (d) The penalty for non-achievement of AT&C loss targets may be relaxed by the Commission under conditions of Force Majeure, including acts of God, acts of GoO or the Government of India (de jure or de facto) or regulatory body or public enemy, war, riots, embargoes, industry-wide strikes, thereby, hindering the performance by TPNODL or any of its obligations hereunder. The Commission's decision in this regard shall be final and binding on all parties.

41. AT&C Loss Trajectory for tariff determination

- (a) As part of the RFP, the Commission provided the following 10-year AT&C loss trajectory to be adopted for determination of tariff for period FY 2021-22 to FY 2030-31:

Table 4: 10-year AT&C Loss Trajectory for Tariff Determination

AT&C Loss Trajectory for Tariff Determination (%)									
FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31
19.17	19.17	17.09	15.00	13.83	12.76	11.77	10.85	10.00	9.50

- (b) TPNODL would be entitled to retain any gains resulting from its meeting and surpassing the AT&C loss trajectory for tariff determination. Such gains would be over and above the return on equity allowed by the Commission as part of OERC (Terms and Conditions for Determination of Wheeling Tariff and

Retail Supply Tariff) Regulations 2014 (the “**Tariff Regulations**”) and shall not be adjusted as other income or in any way appropriated through any truing up process or future Aggregate Revenue Requirement process.

42. Payment of BSP for the month of March, 2021

On the Effective Date, BSP bills for the month of March, 2021 to be raised in April, 2021 will be outstanding. TPNODL will be required to pay the bill after taking over.

43. Recovery of Past Arrears and incentives thereon

- (a) As part of the RFP, bidders were required to provide a commitment to recover Past Arrears from live as well as permanently disconnected consumers in the first 5 (five) years of operations. This was one of the criteria for evaluation of bids.
- (b) As per the incentive mechanism for sharing of Past Arrears collection provided in the RFP, TPNODL shall be eligible for an incentive of 10% (ten percent) on Past Arrears collected from live consumers and 20% (twenty percent) on Past Arrears collected from permanently disconnected consumers. Such incentive would be on the amount of Past Arrears collected from the consumers, net of all taxes and duties recovered from consumers. However, collections from current live consumers may first be appropriated towards current bill and then towards Past Arrears. In this regard, the Deemed Licensee is expected to keep a separate records/ account and information regarding Past Arrears and their collection in each consumer’s ledger. The cost incurred by TPNODL for such recovery of Past Arrears will not form a part of Aggregate Revenue Requirement of TPNODL.
- (c) TPCL has committed to the recovery of following quantum of Past Arrears in its bid:

Table 5: TPCL Past Arrear Recovery Commitment

Commitment of Collection of Past Arrears (INR Cr)					
FY22	FY23	FY24	FY25	FY26	Total
50	120	100	80	50	400

- (d) As stated in the RFP, the Commission shall review the performance of TPNODL vis-à-vis its commitment to collect Past Arrears, at the end of FY

2025-26, on an aggregate cumulative basis, by when TPNODL is required to meet the commitment of Past Arrears collection for the entire period of 5 (five) years.

- (e) Failure to meet the committed Past Arrears collection target at the end of FY 2025-26 shall lead to encashment of Performance Guarantee, to the extent of 10% (ten percent) of such shortfall, as computed at the end of FY 2025-26. For the purpose of clarity, for example, if at the end of the FY 2025-26, TPNODL has achieved Past Arrears collection of Rs. 370 crores (Indian Rupees Seventy crores) only vis-à-vis the committed target of Rs. 400 crores (Indian Rupees One hundred crores) only, an amount of Rs. 3 crores (Indian Rupee Three Crores) only, being $[10\% \times (\text{Rs. 400 crores} - \text{Rs. 370 crores})]$, shall be recovered by the Commission by way of encashment of the Performance Guarantee. The Commission's decision in this regard shall be final and binding on all parties. However, before encashment of Performance Guarantee, the Commission will notify TPCL and will allow TPCL to wire transfer the penalty amount within notified timelines. Failure to transfer the amount within the timelines will lead to encashment of Performance Guarantee. Upon encashment, TPCL shall be required to replenish the Performance Guarantee to its original value as provided in para 35(g) of this Order.
- (f) The penalty amount from wire transfer or encashment of Performance Guarantee shall be transferred to TPNODL and the same quantum shall be deducted by OERC during the true-up process or future Aggregate Revenue Requirement so that the benefit of the penalty amount, so collected, is passed on to consumers.
- (g) The Past Arrears recovered from consumers, after deducting the incentive of TPNODL, shall be dealt with in manner specified in para 52 of this Order. In case the Additional Serviceable Liabilities stated in para 52 of this Order are extinguished, then the Past Arrears recovered after deducting the incentive shall be paid to GRIDCO. After the past liabilities of GRIDCO are extinguished, the Past Arrears recovered after deducting the incentive shall be paid to OPTCL for outstanding transmission and SLDC charges of NESCO Utility.

- (h) Incentive on recovery of Past Arrears will be allowed to be retained by TPNODL in full and shall be over and above the return on equity allowed by the Commission from time to time. Such incentive earned by TPNODL in any year shall not be adjusted by the Commission in the truing up of the Aggregate Revenue Requirement or for adjustment in the Aggregate Revenue Requirement in future years.
- (i) TPNODL shall put its best efforts for collecting Past Arrears beyond the numbers committed in the Bid.

44. Depreciation on assets transferred to TPNODL

- (a) As stated in the RFP, all existing assets (being transferred to TPNODL on the Effective Date) shall continue to earn depreciation as per existing depreciation rates approved by the Commission in Tariff Regulations. Since, the depreciation relates to existing assets against which no loan has been availed by TPNODL, the depreciation allowed to be recovered from tariff shall be utilised in the following manner:
 - (i) For the purpose of determination of Aggregate Revenue Requirement, the depreciation on the opening Gross Fixed Assets of TPNODL, as determined by the Commission subject to prudence check, shall be utilized as per the following priority order:
 - a) Liquidation of Additional Serviceable Liabilities, if any as per para 52 of this Order
 - b) Capital Investment
 - c) Working Capital requirement computed as per Tariff Regulations
 - (ii) The remaining depreciation amount, if any, shall be transferred to a depreciation reserve account and shall be utilized as per the directions of the Commission.
 - (iii) No depreciation shall be allowed to be recovered on assets created out of Government grants/ capital subsidy/ capital contribution from consumers irrespective of whether the corresponding grant is transferred to TPNODL or not.

45. Management structure of TPNODL

- (a) As part of the Bid, TPCL has provided profiles of Senior Management Team comprising of following:
 - (i) Chief Executive Officer
 - (ii) Chief Commercial Officer
 - (iii) Chief Operations Officer
 - (iv) Chief - Technology
 - (v) Chief – Finance & Regulatory
 - (vi) Chief – Technical Services
 - (vii) Chief HR Officer
- (b) TPCL is directed to submit the names and profiles of Senior Management Team proposed to be deployed in TPNODL on or before 31.03.2021. TPCL should satisfy the Commission that the profiles submitted are in line with the profiles committed in the Bid.
- (c) As per the RFP provisions, the proposed personnel shall be deployed full time at TPNODL.
- (d) TPNODL shall be required to inform the Commission during recruitment or replacement of the resources forming part of Senior Management Team. The deployment of such resources will be subject to the satisfaction of the Commission.
- (e) Within 45 (forty five) days of the Effective Date, TPNODL shall submit a detailed management structure and staff deployment plan.
- (f) TPNODL shall be required to seek Commission's approval on the staff deployment plan from time to time as per the directions of the Commission.

46. Treatment of existing employees

- (a) As per the terms of RFP, all existing staff/ employees on the payroll of NESCO Utility as on the Effective Date shall be transferred to TPNODL excluding personnel on deputation. All the personnel who are working in NESCO utility under deputation from State Government or any other organization, shall stand reverted on the Effective Date and all such personnel

shall be deployed back to their parent organization.

- (b) NESCO Utility had 2,304 (Two thousand three hundred and four) regular employees and 13 (Thirteen) number of contractual employees on its payroll as of 31.03.2020.
- (c) All employees shall be governed by the terms of their appointment. The terms and conditions of employment of these employees in TPNODL shall not be made inferior to their existing service conditions in any manner. TPNODL shall have the operational flexibility to design the organization structure to ensure efficiency in operations and staff deployment.

47. Treatment of employee liabilities

- (a) All the existing staff or employees of NESCO Utility shall be transferred to TPNODL as mentioned in para 46 above. The corresponding liabilities towards pension, gratuity, leave encashment and provident fund of existing and past employees (the **“Employees’ Liabilities”**) shall also be transferred to TPNODL.
- (b) NESCO Employees Pension Trust, NESCO Employees Gratuity Trust, NESCO Employees Provident Fund Trust and NESCO Rehabilitation Trust (the **“Trusts”**) are managing funds against pension, gratuity, provident fund and rehabilitation liabilities respectively.
- (c) The investments made by these Trusts as of 31st March 2020 are as follows:

Table 6: Investments on Trusts

Name of Employee Trust	Investments (Rs. Crores)
NESCO Employees’ Pension Trust	167.00
NESCO Employees Gratuity Trust	28.50
NESCO Employees Provident Fund Trust	162.00
NESCO Rehabilitation Trust	0.50
Total	358.00

NOTE: The amounts indicated herein shall be updated as on the Effective Date i.e. 01.04.2021 as per the audited balances which shall be available on or before 30.09.2021. The audited values shall be considered as the final

values for all purposes.

- (d) All the Trusts shall continue to exist, and investments made by the Trusts shall not be liquidated without prior approval of the Commission.
- (e) In NESCO Utility, the prevailing mechanisms of contributions towards various terminal liabilities of employees are:
 - (i) **NESCO Employees Gratuity Fund Trust:** The contribution towards gratuity and rehabilitation liabilities is remitted by NESCO Utility as per the requisition raised by NESCO Employees Gratuity Fund Trust.
 - (ii) **NESCO Employees Rehabilitation Fund Trust:** The contribution towards rehabilitation liabilities is remitted by NESCO Utility as per the requisition raised by NESCO Employees Rehabilitation Fund Trust.
 - (iii) **NESCO Employees Provident Fund Trust:** The contribution towards provident fund is remitted by NESCO Utility on a monthly basis without the requirement of any requisition from the NESCO Employees Provident Fund Trust.
 - (iv) **NESCO Employees Pension Fund Trust:** Monthly pension and arrear pension, if any, are disbursed on monthly basis directly to the pension holders by NESCO Utility. The direct disbursement of monthly pension and arrear pension by NESCO Utility are treated as contribution to the NESCO Employee Pension Trust and necessary journal entries are passed in the books of NESCO Employees Pension Fund Trust as well as in the books of NESCO Utility at the end of the financial year. NESCO Utility also remits funds directly to the Pension Fund Trust as and when surplus fund is available.
- (f) From the Effective Date, by the end of each month, respective Trusts except NESCO Employees Provident Fund Trust will raise a requisition to TPNODL to disburse the balance amount required towards their terminal liabilities for such month after deducting the interest earned by the respective Trusts on their investments. Contributions towards provident fund shall be remitted by TPNODL without the requirement of any requisition from the NESCO Employees Provident Fund Trust. TPNODL shall remit such amount to the

respective Trusts for disbursal to the beneficiaries covered under the Trusts.

- (g) Actual cash outgo incurred by TPNODL in relation to servicing of terminal liabilities other than provident fund liabilities of existing as well as retired employees of NESCO Utility will be allowed for a pass through in Aggregate Revenue Requirement and tariff determination process.
- (h) For provident fund liabilities, only the employer's contribution towards provident fund made to NESCO Provident Fund Trust shall be allowed as part of the Aggregate Revenue Requirement and tariff determination process.
- (i) Except as provided in 47(g) and (h) above, no amount shall be allowed in Aggregate Revenue Requirement or tariff determination process of TPNODL for contribution to the Trusts for increasing their corpus fund or investments.
- (j) Investments made by the Trust shall be appropriately disclosed in the accounts of TPNODL as per the applicable accounting standards.

48. Treatment of deposits of NESCO Utility

- (a) As per the provisional opening balance sheet provided in RFP, the liabilities related to security deposit from consumers, deposits from suppliers/contractors and deposits for electrification/service connection shall be transferred to TPNODL. Consequently, the corresponding fixed deposits created against such liabilities shall be transferred to TPNODL as part of the current assets.
- (b) Further, entire Consumer Security Deposits received by TPNODL in each month after the Effective Date shall be converted into fixed deposits within a maximum period of 30 (thirty) days from the last day of the month of collection and shall be held in the name of TPNODL. TPNODL shall submit details of the Consumer Security Deposits to the Commission on annual basis.
- (c) TPNODL shall not liquidate any existing fixed deposit as per the opening balance sheet and new fixed deposits except for the reasons for which it was collected and after seeking explicit approval from the Commission. TPNODL shall also provide an annual account of fixed deposits with banks along with interest accrued thereon as part of the Aggregate Revenue Requirement petition.

49. Treatment of past litigations

- (a) The liabilities or gains arising out of litigation, suits, claims, etc. pending on, and/or arising due to events prior to the Effective Date, shall be allowed by the Commission in the Aggregate Revenue Requirement subject to prudence check.
- (b) TPNODL shall make all diligent efforts to contest the litigation, suits, claims etc. as if it is a party to such litigation, suits, claims etc. and satisfy the Commission in this regard.

50. Treatment of Past Period True-up

- (a) Treatment of true-up of past period i.e. for period prior to taking-over or Effective Date of TPNODL, if any, shall be done by the Commission in a manner that will not cause any financial gain or losses to TPNODL.

51. Accounts and audit

- (a) The RFP provided an indicative opening balance sheet of TPNODL based on NESCO Utility's accounts as of 31.03.2019.
- (b) Based on the audit balances of NESCO Utility as of 31.03.2020, the provisional opening balance sheet of TPNODL as of 01.04.2020 based on the principles of segregation outlined in the RFP is provided in Annexure-2.
- (c) As stated in the RFP, the actual opening balances to be transferred to TPNODL shall be as on the Effective Date and shall be finalized based on the audited accounts of NESCO Utility, which shall be prepared within a period of 6 (six) months from Effective Date i.e. on or before 30.09.2021. NESCO Utility is directed to undertake all necessary steps to ensure completion of statutory audit of its balance sheet as on 31.03.2021 and make the same available to the Commission on or before 30.09.2021.
- (d) Costs incurred for such statutory audit shall form part of the Transaction Process Costs specified in para 15 of this Order.
- (e) It is to be noted that all the account balances and information related to NESCO Utility finances specified in this Order are based on audited accounts of NESCO Utility as of 31.03.2020 and shall be considered as indicative. The actual opening balance sheet of TPNODL as on 01.04.2021 shall be prepared from the audited balances of NESCO Utility as of 31.03.2021. The audited

balances of NESCO Utility as of 31.03.2021 shall be determined only after the statutory audit is completed on or before 30.09.2021. For determination of Additional Serviceable Liabilities (para 52) and investments of the Trusts (para 47(c)), the Commission shall consider the audited balances as of 31.03.2021.

- (f) All the accounting books shall transfer from NESCO Utility to TPNODL from the Effective Date.

52. Treatment of Additional Serviceable Liabilities

- (a) Section 21(a) of the Act states that “the utility shall vest in the purchaser or the intending purchaser, as the case may be, free from any debt, mortgage or similar obligation of the licensee or attaching to the utility”
- (b) The indicative opening balance sheet provided in the RFP was prepared in compliance with Section 21(a) of the Act, which requires that the utility of NESCO must be transferred free from any debt, mortgage or similar obligation.
- (c) In the interest of the employees, consumers, suppliers of NESCO Utility and to ensure continuity of operation of the utility as a going concern, current assets and liabilities pertaining to employees, consumers, suppliers and statutory payments, etc. as per the existing books of account of NESCO Utility shall be transferred to the TPNODL and NESCO Utility will not have any revenue to fund the liabilities.
- (d) The details of such additional serviceable liabilities based on the audited balance sheet as on 31.03.2020 is provided in the following table:

Table 7: Details of Additional Serviceable Liabilities

Particulars	Amount (Rs Cr)	Description
Liabilities		
Short-term borrowings	329	Secured overdraft from bank
Current Liabilities	454	Sundry liabilities relating to TDS, CST, VAT; electricity duty received from consumers but not remitted; deposits and retention from suppliers/ contractors; advance payment/ deposits from

Particulars	Amount (Rs Cr)	Description
		consumers; other dues etc.
Consumer Security Deposit	605	Consumer security deposits of consumers
Capital Subsidy/ Grants	118	To the extent it is not capitalized (CWIP: Rs 84.8 Cr; Inventory: Rs 31.6 Cr; Advance to Supplier: Rs 1.5 Cr)
Total (A)	1,505	
Assets		
Inventories	10	All the inventories at various stores
Cash and Bank Balances	951	All the current account balances with banks
Short-term loan and Advance	69	All the loans and advances to Staff and others
CWIP	118	Corresponding to Capital Subsidy/ Grants (not yet capitalized).
Assets Total (B)	1,147	
Additional Serviceable Liabilities (A) - (B)	358	

NOTE: The amounts indicated herein shall be updated as on the Effective Date i.e. 01.04.2021 as per the audited balances which shall be available on or before 30.09.2021. The audited values shall be considered as the final values for all purposes.

- (e) The Commission further states that the shortfall, if any, in meeting the current liabilities after using the proceeds of the current assets (the “**Additional Serviceable Liabilities**”), transferred to TPNODL, shall be dealt with in the following manner, so that TPNODL is not adversely impacted:
- (i) The final amount of Additional Serviceable Liabilities shall be determined when the audited financial statements as on 31.03.2021 are made available.
 - (ii) Within 1 (one) month from the date mentioned in point (i) above, TPNODL shall file a petition to the Commission claiming the Additional Serviceable Liabilities based on such financial statements

required to be serviced. The Commission after prudence check will allow the additional serviceable liabilities, if any.

- (iii) From the Effective Date, TPNODL shall be responsible to receive/ pay amounts pertaining to assets and liabilities transferred to TPNODL as Additional Serviceable Liabilities.
- (iv) To fund the Additional Serviceable Liabilities, TPNODL shall be allowed, if necessary, to avail of a separate appropriate financial instrument including but not limited to short-term loan/ overdraft facility.
- (v) The financing cost of appropriate financial instruments shall be dealt with in the manner as specified in point (vi) and (vii) till the time such financial instrument is discharged in full.
- (vi) Interest payable on appropriate financial instruments shall be allowed in Aggregate Revenue Requirement by the Commission, subject to prudence check.
- (vii) Principal repayments of such financial instruments shall be allowed by Commission to be made from the following amounts in the same order:
 - a) Excess recovery net of payments to be made as per para 42 of this Order
 - b) Recovery of Past Arrears by TPNODL after deducting incentives as specified in para 43 of this Order
 - c) Annual Depreciation on assets as on 31.03.2021 (existing assets recognized in Tariff Order) allowed in Aggregate Revenue Requirement.
- (viii) In case above amounts fall short to fund principal repayments of appropriate financial instrument, the shortfall shall be considered by the Commission in Aggregate Revenue Requirement in the same year or over a period as the Commission may decide, subject to prudence check.
- (ix) TPNODL shall maintain separate account for receipt/payment of amounts pertaining to Additional Serviceable Liabilities and the

receipts as allowed in point (vii) above.

- (x) TPNODL shall submit annual reconciliation statements to the Commission relating to the receipts/ payments with respect to Additional Serviceable Liabilities transferred to TPNODL, till such liabilities are liquidated in full.
- (xi) Any write-off or write-on of Additional Serviceable Liabilities or assets has to be done with prior permission of the Commission.
- (f) At any point of time if any additional liability pertaining to the period prior to the Effective Date accrues to TPNODL irrespective of whether it is reflected in the audited financial statements available on or before 30.09.2021, the same shall also be dealt with in the manner provided herein subject to prudence check by the Commission.

53. Operation and Maintenance Expenses

- (a) The O&M expenses comprise of three components as given below:
 - (i) Salaries, wages, pension contribution and other employee costs
 - (ii) Administrative and General (A&G) expenses
 - (iii) Repair and Maintenance (R&M) expenses
- (b) Within 45 (forty five) days of Effective Date, TPNODL shall submit a detailed plan of the O&M (Employee, A&G and R&M) expenses to be incurred in the 1st (first) year of operations along with detailed justification for any deviation from the O&M expenses approved by the Commission in the Aggregate Revenue Requirement of the NESCO Utility for such year. The Commission shall undertake a prudence check of the plan submitted before approving the same.
- (c) For the subsequent years, TPNODL shall include the estimated expense for each component of O&M expense in the Aggregate Revenue Requirement petition submitted to the Commission as per the Tariff Regulations. The Commission shall undertake a prudence check of the submission made by TPNODL before allowing the same in Aggregate Revenue Requirement. Provided that the actual expenses allowed shall be subject to true-up as per the Tariff Regulations.

54. Return on equity:

- (a) As per the terms of the RFP, the Commission shall allow return on equity, as per the Tariff Regulations, to TPNODL on the equity capital of Rs. 250 crores (Indian Rupee Two hundred and fifty crores) only which was the reserve price of the utility of NESCO.
- (b) Return on equity shall be allowed on the reserve price of the utility as per para 54(a) above and also on the capital investments made by the TPNODL, as per the Tariff Regulations.

55. Treatment of existing DF agreements:

As per the RFP, the rights and obligations of NESCO Utility under the respective franchisee agreements, if any, as on the Effective Date will be transferred to TPNODL.

56. Right to use the land instead of transfer

As per the RFP provisions, the Commission allows TPNODL the right to use the land at nominal rate (at a license fee of Re 1/ year) for the distribution business instead of transfer of land and land rights. TPNODL, TPCL and GRIDCO shall procure necessary approvals and undertake necessary steps for implementation of this para.

57. Performance Review vis-à-vis commitments provided in the Bid:

- (a) As part of the RFP, the bidders were required to submit a business plan for the first 5 (five) years of operations (i.e. FY 2021-22 to FY 2025-26) covering the following aspects to achieve successful turnaround of utility of NESCO
 - (i) AT&C Loss Reduction
 - (ii) Capex and Technology deployment Plan
 - (iii) Plan for recovery of Past Arrears
 - (iv) Plan for Senior Management deployment
 - (v) Any other Commitments – CSR, Customer Engagement etc.

Accordingly, TPCL in its Bid has made commitments on all the above aspects.

- (b) The Commission shall review the performance of TPNODL vis-à-vis its commitments every year for the first 5 (five) years of operations at the time of filing of Aggregate Revenue Requirement petition by TPNODL. The commitments related to capital expenditure, AT&C Loss reduction and recovery of Past Arrears shall be dealt with in a manner as provided in paras 39, 40 and 43 of this Order respectively.
- (c) TPNODL shall be required to furnish required information in this regard for each completed year in the Aggregate Revenue Requirement petition filed in the subsequent year.
- (d) The Commission while evaluating the performance of TPNODL for reduction in Performance Guarantee amount at the end of 5th (fifth) year and 10th (tenth) as per para 35 of this Order shall, inter alia, take into consideration the performance of TPNODL vis-à-vis its commitments in the Bid.
- (e) The Commission shall also continue to undertake a quarterly performance review of TPNODL as per the prevalent practice followed for all the retail supply licensees in the State. TPNODL shall comply with the directions of the Commission in this regard.

58. Terms of revocation of license:

- (a) In addition to the provisions related to revocation of license u/s 19 of the Act and the license conditions applicable to TPNODL, the Commission may revoke the license of TPNODL under the following conditions as specified in the RFP:
 - (i) Change in legal standing of TPNODL by way of merger/ acquisition/ sale/ divestment/ demerger unless duly approved by the Commission;
 - (ii) Any alteration in equity shareholding, as specified in para 26, of TPNODL without the explicit and prior written approval of the Commission;
 - (iii) Failure to make payment of Bulk Supply Price, transmission charges and SLDC charges in terms of the Bulk Supply Agreement and the Bulk Power Transmission and SLDC Agreement ;
 - (iv) Failure to meet AT&C Loss as per para 40;

- (v) Failure to restore the Performance Guarantee as per para 35(g); or
- (vi) Failure to meet the cumulative capital investment commitment at the end of 5th (fifth) year as per para 39.

TRANSFER OF LICENSE

- 59. As per Section 21(b) of the Act, the rights, powers, authorities, duties and obligations of the NESCO Utility under its license dated 27.10.2006 issued by the Commission shall stand transferred to TPNODL upon completion of sale.
- 60. TPNODL shall be the licensee to carry out the function of distribution and retail supply of electricity covering the distribution circles of Balasore, Bhadrak, Baripada, Jajpur and Keonjhar in the state of Odisha for a period of 25 (twenty five) years from 01.04.2021 unless the LoI is cancelled or this Order is withdrawn pursuant to para 31 of this Order.
- 61. Under Section 16 of the Act, the Commission has powers to lay down the license conditions of TPNODL. To incorporate the terms of the sale process and commitments made by TPCL in its Bid, the Commission shall through a separate order, amend the license conditions applicable to TPNODL.
- 62. The order amending license conditions shall be issued within 90 (ninety) days from the Effective Date. Till the time amended license is granted, the provisions of this Order and the rights, powers, authorities, duties and obligations specified in the existing license of NESCO Utility shall apply to TPNODL.

RELAXATION OF CONDITIONS RELATED TO PROFIT SHARING

- 63. As per the RFP, the gains accruing to TPNODL on account of better performance in reducing AT&C loss upto FY 2030-31 and incentive on recovery of Past Arrears shall be allowed to be retained in full by TPNODL. This would be over and above the return on equity allowed by the Commission as part of Tariff Regulations and shall not be adjusted as other income or in any way appropriated through any truing up process or future Aggregate Revenue Requirement process.
- 64. The above RFP provision is not in conformity with clause 7.66 of Tariff Regulations which provides for sharing of profits on account of improved performance.
- 65. In the RFP, the incentive to retain all gains arising from better performance was balanced through a penalty in the form of encashment of Performance Guarantee, in

case of underperformance. Such incentive-penalty mechanism was envisaged as part of the RFP to encourage private sector participation with an objective to achieve successful turnaround of NESCO Utility.

66. For the reason mentioned above, the Commission, exercising the Power to Relax under clause 9.4 of the Tariff Regulations, hereby relaxes the application of clause 7.66 of Tariff Regulations in respect of TPNODL up to FY 2030-31.

RELAXATION OF CONDITIONS RELATED TO RETURN ON EQUITY

67. As provided in para 54 of this Order, the Commission shall allow to TPNODL return on equity, as per the regulations, on the equity capital of Rs. 250 crores (Indian Rupee Two hundred and fifty crores) only which was the reserve price of the utility of NESCO specified in the RFP.
68. The above provision of the RFP is not in conformity with clause 7.51 of the Tariff Regulations.
69. In the RFP, a return on equity on the reserve price of Rs. 250 crores (Indian Rupee Two hundred and fifty crores) only is assured in order to encourage investor participation by providing certainty on returns.
70. For the reason mentioned above, the Commission, exercising the Power to Relax under clause 9.4 of the Tariff Regulations, hereby relaxes the application of clause 7.51 of the Tariff Regulations to TPNODL.

TREATMENT OF EQUITY INVESTMENT FROM GRIDCO FOR FUTURE CAPITAL INVESTMENT

71. Pursuant to Clause 3.6 of the Shareholder's Agreement, the Commission orders that in the event that assets are transferred to TPNODL in lieu of equity investment by GRIDCO, the same shall be allowed in fixed asset base for determination of tariff, after prudence check, provided that the assets transferred are distribution assets. The Commission, exercising powers conferred to it u/s 86(2) of the Act, advises the State Government to consider providing a one-time approval on transfer of its assets to TPNODL through GRIDCO in lieu of equity investment from GRIDCO as and when such transfer is necessitated.

PROVISION FOR OPERATIONS OF NESCO UTILITY

72. With the vesting of utility of NESCO to TPNODL, a part of assets and liabilities of

NESCO Utility shall get transferred to TPNODL whereas remaining assets and liabilities shall remain in the balance sheet of NESCO utility. To manage the residual assets and liabilities of NESCO utility post vesting of utility to TPNODL, NESCO utility shall continue to hold residual assets and liabilities till further orders of the Commission in this regard.

73. The Commission may decide to form a new residual company separate from the existing NESCO utility for the purpose of managing the residual assets and liabilities of NESCO utility. The Commission shall direct GRIDCO to form such a residual company at an appropriate time. Till such time, NESCO utility shall continue to be operated under the extant administrative mechanism.
74. For discharging the responsibilities mentioned in the above para, TPNODL and GRIDCO shall depute 2 (two) personnel each, on part time basis, in NESCO utility and also provide required supporting staff and infrastructure to manage the residual assets and liabilities of NESCO utility.
75. Considering that all the electronic as well as paper records of NESCO utility shall be transferred to TPNODL on an as-is-where-is basis, it shall be the responsibility of TPNODL to facilitate the residual company in all accounting, secretarial and other operational matters required by the residual company for discharge of its statutory duties. GRIDCO shall provide necessary supervision in this regard. Any costs incurred for this purpose shall be allowed in Annual Revenue Requirement of TPNODL.

COMMISSION'S OBSERVATIONS ON INTERVENOR – RESPONDENTS' SUBMISSIONS

76. Now, we deal with the issues raised by the intervenors in their written submissions:

Protection of service conditions and employee liabilities

The intervener has raised concerns on the protection of service conditions and treatment of employee liabilities such as pension, gratuity, provident fund etc. The Commission reiterates that these aspects have been already addressed in the RFP, the LoI and also in Para 46 and 47 of this Order. Para 46 of this Order states that the employees shall be governed by the terms of their appointment and that their service conditions cannot be made inferior to the existing service conditions in any manner. Para 47 of this Order specifies that the liabilities towards pension, gratuity, leave

encashment and provident fund of existing as well as past employees shall also be transferred to TPNODL. The existing mechanism of discharging employee liabilities from NESCO Employees Pension Trust, NESCO Employees Gratuity Trust, NESCO Employees Provident Fund Trust and NESCO Rehabilitation Trust shall continue even after the Effective Date. TPNODL shall be responsible to remit the amounts to the Trusts towards Employees' Liabilities.

The Commission has taken all submissions into consideration and emphasizes that this Order is being issued considering the best interest of all stakeholders – consumers, employees and public at large. The matter regarding service conditions of employees of NESCO Utility has been dealt with in para 46 of this Order.

OTHER ORDERS OF THE COMMISSION

77. The ongoing government schemes under capital work in progress are being transferred to TPNODL. TPNODL is not allowed to use this capital amount for any other purpose.
78. The Commission notes that some amount of grants provided by the GoO in the past for various works is lying unspent in NESCO Utility at present. TPNODL shall ensure that any funds provided for specific purposes by GoO to NESCO Utility in the past which remains unutilized as on the Effective Date, along with interest earned on such funds, must be accounted for separately and utilized for those purposes as specified in the sanction order from time to time. Such schemes shall be jointly monitored by GoO, GRIDCO, OPTCL and TPNODL. In this regard, the Commission directs that TPNODL shall agree to the terms and condition for utilization of such grants through an agreement with GRIDCO/ GoO/ OPTCL. For new schemes formulated by the GoO, if TPNODL wishes to avail funding under such scheme, an agreement shall be signed between GoO/ GRIDCO/ OPTCL and TPNODL for utilization of such grants.
79. TPNODL or TPCL shall not be allowed to create any charge or encumbrance on the following throughout the term of the License:
 - (a) Fixed assets transferred to TPNODL as part of this Order; and
 - (b) Financial assets corresponding to Consumer Security Deposits.

Further, TPNODL or TPCL shall free the above listed assets from any

encumbrances/ charges that may exist on these assets as per the opening balance sheet of TPNODL as on Effective Date within a fixed time frame, not later than full 5 (five) Financial Years of operations from the Effective Date, as may be approved by the Commission.

80. In addition to para 79, TPNODL shall not create any charge or encumbrance over other assets of TPNODL, including but not limited to receivables of TPNODL, without prior approval of the Commission.
81. TPCL in its submission has made certain prayers for redressal. Such prayers include relaxation in AT& C loss levels, removal of lien on Escrow accounts , past arrear recovery, removal of corporate guarantee, mitigation of tax impact on account of transfer of assets by GRIDCO and indemnification from any third party claim on acquisition of stake in TPNODL. The Commission is not inclined to provide any concessions/ further clarifications in this regard as the conditions of the RFP and RFP Documents namely Share Acquisition Agreement, Shareholders Agreement, Bulk Supply Agreement and Bulk Power Transmission and SLDC Agreement provided with the RFP are amply clear.
82. With regards to the prayer of TPCL for removal of Escrow, it may be noted that continuation of Escrow account had not been envisaged in the RFP. Regarding payment of BSP bills to GRIDCO, adequate payment security mechanism in the form of Letter of Credit for an amount equivalent to 2 (two) months' BSP bills has been provided in para 37 of this order. Once the LC as mentioned above is made available there is no need for continuation of Escrow mechanism that was an arrangement with the earlier distribution licensee, when LC was not being provided. Binding down the cash flow of the Operating Company through an Escrow mechanism even after the LC for 2 (two) months' BSP bill is made available will severely constrain the operational flexibility of the Operating Company for meeting its expenses approved in the ARR and affect its efficient functioning. Regarding GRIDCO's concern for collection of its past receivables from the DISCOM, the Operating Company is not liable to pay those dues except as provided for in this Order. The purchase consideration is being remitted to GRIDCO against its past dues as per Section 21(a) of the Act. In addition, para 43 of this Order provides an additional mechanism for recovery of the past receivables of GRIDCO. Continuance of Escrow to secure its past receivable is not in conformity with Section 21 (a) of the

Act since the successor DISCOM cannot be forced to discharge the liabilities of the predecessor DISCOM. With adequate measures in conformity with the Act provided in this Order, there exists no sufficient ground for continuing with the Escrow arrangement that had been made with the earlier Licensee. The Commission therefore directs that within 7 (seven) days of opening of Letter of Credit by TPNODL, the escrow arrangement shall be discontinued and any lien/charge created on the bank account/Escrow account of TPNODL shall be vacated.

83. In case of any conflict between this Order and the provisions of RFP or RFP Documents namely Share Acquisition Agreement, Shareholders Agreement, Bulk Supply Agreement and Bulk Power Transmission and SLDC Agreement, the decision of the Commission shall be final.
84. The Commission shall not allow recovery or true up of costs owing to tax implications or any other costs arising out of this transaction in any manner except stamp duty on transfer of asset. The Commission directs TPCL and GRIDCO to ensure that necessary steps be taken while executing the transaction so as to not burden the consumers due to taxes and duties arising out of this transaction.
85. The terms of this Vesting Order shall be final and binding on the parties. The parties shall not be allowed to make any further submissions with regard to the matters dealt with in this Vesting Order.
86. The suo-motu proceeding is accordingly disposed off.

Sd/-
(G. Mohapatra)
Member

Sd/-
(S.K. Parhi)
Member

Sd/-
(U. N. Behera)
Chairman

Annexure - 1: Note on Principles of transfer of assets and liabilities of NESCO Utility to TPNODL

Particulars	Amount transferred to TPNODL	Amount remaining with NESCO Utility	Note No.
ASSETS			
Fixed Assets			
<i>Gross Block</i>	FULL (except land)	-	
<i>Less : Accumulated Depreciation</i>	FULL	-	
<i>Net Block</i>	FULL	-	1
<i>Capital Work in Progress</i>	FULL	-	2
Sundry Debtors	-	FULL	
Inventories	FULL	-	3
Cash and Bank Balances	FULL	-	4
Loans and Advances			
<i>Loans and advances to employees</i>	PARTIAL	PARTIAL	5
<i>Receivables from SOUTHCO</i>	FULL	-	6
<i>Amount receivable from other Licensee-SOUTHCO</i>	FULL	-	6
<i>Capital subsidy/ Grant Receivable</i>	FULL	-	7
<i>Advances recoverable in cash or in kind or for value to be received</i>	PARTIAL	PARTIAL	8
<i>Other Deposits (considered good)</i>	FULL	-	8
TOTAL ASSETS			
EQUITY & LIABILITIES			
Equity Share Capital	200.00	-	9
Capital Funds			
<i>Capital Fund</i>	-	FULL	
<i>Contingencies reserves</i>	-	FULL	
<i>Other Reserves/ Capital Subsidy/ Grants</i>	PARTIAL	PARTIAL	10
<i>Profit and Loss Account Debit Balance</i>	-	FULL	
Loan Funds			

Particulars	Amount transferred to TPNODL	Amount remaining with NESCO Utility	Note No.
<i>Long Term Borrowings</i>	-	FULL	
Other Funds			
<i>Consumers' Security Deposit</i>	FULL	-	11
<i>Capital Contribution from Consumers</i>	PARTIAL	PARTIAL	12
Current Liabilities			
<i>Short Term Loans</i>	FULL	-	13
<i>Sundry Creditors – Power Purchase</i>	-	FULL	
<i>Sundry Creditors – Others</i>	PARTIAL	PARTIAL	14
<i>Deposits and Retention from suppliers/ contractors</i>	FULL	-	15
<i>Advance payment/ Deposits from consumers</i>	FULL	-	15
<i>Creditors on capital accounts</i>	FULL	-	16
<i>Amount Payable to GRIDCO</i>	-	FULL	
<i>Amount payable to other licensee - WESCO</i>	FULL	-	17
<i>Interest accrued and due</i>	-	FULL	
<i>Interest accrued but not due</i>	-	FULL	
<i>Electricity Duty Payable (Subject to realization from consumer)</i>	-	FULL	
<i>Electricity Duty Payable</i>	FULL	-	18
<i>Other Liabilities</i>	FULL	-	19
Provisions			
<i>Payable to Trusts</i>	-	FULL	
<i>Provision for Disputed Matters</i>	-	FULL	
<i>Provision against dues from franchisee</i>	-	FULL	
TOTAL EQUITIES & LIABILITIES			

Principles of segregation of balance sheet:

1. Net Block:

All the Net Fixed Assets (excluding land) shall be transferred to TPNODL since the Utility shall be transferred to TPNODL

2. Capital Work-in-Progress:

This shall also be transferred along with Net Fixed Assets to TPNODL

3. Inventory:

Inventories shall be transferred to TPNODL.

4. Cash and Bank Balance:

Cash and bank balance shall be transferred to TPNODL

5. Loan and Advances to employees:

Since all the NESCO Utility employees are transferred to TPNODL, the corresponding loans and advances provided to employees shall also be transferred to TPNODL. However, select items which are very old and belong to NESCO Limited period shall not be transferred.

6. Receivable from SOUTHCO; Amount receivable from other Licensee-SOUTHCO:

Receivables from SOUTHCO as well as Amount receivables from other Licensee shall be transferred to TPNODL.

7. Capital Subsidy/ Grant Receivables:

Since Net Block and Other Reserves are being transferred to TPNODL, Capital Subsidy/ Grant Receivables shall be transferred to TPNODL

8. Advances recoverable in cash or in kind or for value to be received; Other Deposits (Considered Good):

All amount under these heads shall be transferred to TPNODL except for select items which are very old and belong to NESCO Limited period.

9. Equity Share Capital:

Equity share capital of TPNODL shall be maintained at Reserve Price of Rs. 200 Crores (Indian Rupee Two hundred crores) only as per RFP.

10. Other Reserves (Capital Subsidy/ Grants):

Other Reserves (Capital Subsidy/ Grants) shall be transferred to the extent not capitalized.

11. Consumer Security Deposits:

Consumer Security Deposits shall be transferred to TPNODL.

12. Capital Contribution from Consumers:

Capital Contributions from Consumer may be transferred to TPNODL to the extent required to match balance sheet of TPNODL.

13. Short-term Loans:

Secured overdraft from bank along with FDs pledged to Banks, shall be transferred to TPNODL.

14. Sundry Creditors - Others:

Sundry Creditors for goods and services shall be transferred to TPNODL.

15. Deposits and Retention from suppliers/ contractors; Advance payment/ Deposits from consumers:

All amount under these heads shall be transferred to TPNODL except for select items which are very old and belong to NESCO Limited period.

16. Creditors on Capital Accounts:

Since this relates to fixed assets and CWIP transferred, the same shall be transferred to TPNODL.

17. Amount payable to other licensee - WESCO:

Amount payable to other licensee – WESCO shall be transferred to TPNODL

18. Electricity Duty Payable:

Current liabilities relating to Electricity duty collected but not remitted, shall be transferred to TPNODL

19. Other Liabilities:

Other liabilities including staff related liabilities, TDS, GST, various taxes, etc. shall be transferred to TPNODL except for select items which are very old and belong to NESCO Limited period.

**Annexure – 2: Opening Balance Sheet (provisional) of Operating Company as at
01.04.2020 based on audited financial statements as at 31.03.2020**

Particulars	Rs Crores
ASSETS	
Fixed Assets	
<i>Gross Block</i>	1,897
<i>Less : Accumulated Depreciation</i>	654
<i>Net Block</i>	1,244
<i>Capital Work in Progress</i>	140
Inventories	10
Cash and Bank Balances	
<i>Cash on Hand</i>	3
<i>Stamps in hand</i>	0
<i>Balances with scheduled Bank- Current Account</i>	86
<i>Balances with scheduled Bank- Fixed Deposit</i>	860
<i>Remittances in Transit</i>	2
Loans and Advances	
<i>Loans and advances to employees</i>	4
<i>Receivables from SOUTHCO</i>	7
<i>Amount recievable from other Licensee- SOUTHCO</i>	10
<i>Advances recoverable in cash or in kind or for value to be received</i>	45
<i>Capital subsidy/ Grant Receivable</i>	2
<i>Other Deposits (considered good)</i>	1
TOTAL ASSETS	2,413
LIABILITIES	
Equity	250
Capital Subsidy	118
Other Funds	
<i>Consumers' Security Deposit</i>	605
<i>Capital Contribution from Consumers</i>	657
Current Liabilities	
<i>Short Term Loans</i>	329
<i>Sundry Creditors – Others</i>	10

Particulars	Rs Crores
<i>Deposits and Retention from suppliers/ contractors</i>	27
<i>Advance payment/ Deposits from consumers</i>	239
<i>Creditors on capital accounts</i>	50
<i>Amount payable to other licensee - WESCO</i>	0
<i>Electricity Duty Payable</i>	39
<i>Other Liabilities</i>	89
TOTAL LIABILITIES	2,413

NOTE: The amounts indicated herein shall be updated as of the Effective Date i.e. 01.04.2021 as per the audited balances which shall be available on or before 30.09.2021. The audited values shall be considered as the final values for all purposes.

Annexure - 3: Depreciation Schedule

Sl.	Asset Particulars	Depreciation Rate (Salvage Value = 10%)
A.	Land under full ownership	0.00%
B.	Land under lease	
i.	for investment in the land	3.34%
ii.	For cost of clearing the site	3.34%
C.	Assets purchased new	
A	Building & Civil Engineering works of	
i.	Offices and showrooms	3.34%
ii.	Temporary erections such as wooden structures	100.00%
iii.	Roads other than Kutcha roads	3.34%
iv.	Others	3.34%
b	Transformers, Kiosk, sub-station equipment & other fixed apparatus (including plant foundation)	
i.	Transformers including foundations having rating of 100 KVA and over	5.28%
ii.	Others	5.28%
c	Switchgear including cable connections	5.28%
d	Lightning arrestor	
i.	Station type	5.28%
ii.	Pole type	5.28%
iii.	Synchronous condenser	5.28%
e	Batteries	
i.	Underground cable including joint boxes and disconnected boxes	5.28%
ii.	Cable duct system	5.28%
F	Overhead lines including cable support	
i.	Lines on fabricated steel operating at terminal voltages higher than 66 KV	5.28%
ii.	Lines on steel supports operating at terminal voltages higher than 13.2 KV but not exceeding 66 KV	5.28%
iii.	Lines on steel on reinforced concrete support	5.28%
iv.	Lines on treated wood support	5.28%
G	Meters	5.28%
H	Self-propelled vehicles	9.50%

Sl.	Asset Particulars	Depreciation Rate (Salvage Value = 10%)
I	Air Conditioning Plants	
i.	Static	5.28%
ii.	Portable	9.50%
J i.	Office furniture and furnishing	6.33%
ii.	Office equipment	6.33%
iii.	Internal wiring including fittings and apparatus	6.33%
iv.	Street Light fittings	5.28%
K	Apparatus let on hire	
i.	Other than motors	9.50%
ii.	Motors	6.33%
L	Communication equipment	
i.	Radio and high frequency carrier system	6.33%
ii.	Telephone lines and telephones	6.33%
M	I.T. equipment	15.00%
N	Assets purchased second hand and assets not otherwise provided for in the Schedule	5.28%

Annexure - 4: LIST OF PPA – EXISTING AND UPCOMING POWER PROJECTS HAVING ODISHA SHARE

EXISTING AND UP COMING POWER PROJECTS HAVING ODISHA SHARE						
Nature of Plant	Sl. No.	Name of the Plant	Installed capacity as per PPA (MW)	Share of odisha	COD/Probable date of Completion	Date/Term of PPA
Coal Based Thermal Power Plant (IPP)		IPP				
	1	M/s. Vedanta Ltd., Jharsuguda	2400 (4x600)	600 MW Units 1, 3 & 4 converted to CGP Units w.e.f. 01.04.2015	# 1: 02-03-2011 # 2: 10-08-2010 # 3: 21-07-2011 #4: 26-03-2012	Consolidated PPA: 19-12-2012 Term of PPA: 25 years & can be extended mutually Further revised PPA is to be signed
	2	M/s. GMR Kamalanga Energy Ltd., Bengaluru at Kamalanga, Dhenkanal	1400 (4x350)	25% at full cost plus power generated beyond 80% PLF at variable cost.	# 1, 2 & 3: Already achieved COD # 4: Deferred	Principal PPA: 28-09-2006 Revised PPA: 04-01-2011 Term of PPA: 25 years & can be extended mutually
	3	M/s. Jindal India Thermal Power Ltd., New Delhi at Derang, Talcher, Angul	1800 (3x600)	14% at variable cost, if Coal Block allocated within the State. Otherwise, JITPL shall supply 12% at variable cost.	# 1 & 2: Already achieved COD # 3: Deferred	Principal PPA: 28-09-2006 Revised PPA: 05-01-2011 Term of PPA: 25 years & can be extended mutually
	4	M/s. Ind-Barath Energy (Utkal) Ltd., Hyderabad at Sahajbahal, Jharsuguda	1360 (2x350 + 1x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, IBEUL shall supply 12% at variable cost.	# 1: 20.07.2016 # 2: Substantial progress made # 3: Construction yet to start Presently the project has been referred to NCLT and there is no further progress	Principal PPA: 14-09-2009 Revised PPA: 04-01-2011 Term of PPA: 25 years & can be extended mutually
	5	M/s. Lanco Babandh Power Ltd., Hyderabad at Khurunti, Dhenkanal	2640 (2x660 + 2x660)	25% at full cost plus power generated beyond 80% PLF at variable cost	# 1 & 2: Construction activities started # 3 & 4: Commissioning deferred Now there is no further progress	Principal PPA: 28-09-2006 Revised PPA: 04-01-2011 Term of PPA: 25 years & can be extended mutually
	6	M/s. Monnet Power Company Ltd., New Delhi at Mallibrahmani & Nisha, Dist. Angul	1050 (2x525)	25% at full cost plus power generated beyond 80% PLF at variable cost	# 1 & 2: Substantial progress made Now there is no further progress since 6 years Under NCLT.	Principal PPA: 28-09-2006 (MoU signed for 14%/12% power at variable cost) Revised PPA is to be signed Term of PPA: 25 years
	7	M/s. Maa Durga Thermal Power Company Ltd., Bhubaneswar at Tangi, Cuttack	120 (2x30 + 1x60)	14% at variable cost, if Coal Block allocated within the State. Otherwise, MTPCL shall supply 12% at variable cost.	Construction activities for 2x30 MW completed. Expected to be commissioned in September, 2020	PPA: 31-12-2010 Term of PPA: 25 years & can be extended mutually

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EXISTING AND UP COMING POWER PROJECTS HAVING ODISHA SHARE						
Nature of Plant	Sl. No.	Name of the Plant	Installed capacity as per PPA (MW)	Share of odisha	COD/Probable date of Completion	Date/Term of PPA
Coal Based Thermal Power Plant (IPP)	8	M/s. KVK Nilachal Power Pvt. Ltd., Hyderabad at Athagarh, Cuttack	1050 (3x350)	25% at full cost plus power generated beyond 80% PLF at variable cost	Under NCLT and under liquidation process	PPA: 28-09-2006 Term of PPA: 25 years & can be extended mutually
	9	M/s. NSL Nagapatnam Power & Infratech Pvt. Ltd., Hyderabad [Formerly M/s. Mahanadhi Aban Power Company Ltd., Chennai] at Talcher, Angul	1320 (2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, NNPIPL shall supply 12% at variable cost.	Construction activities yet to begin Under NCLT since 18.01.2018 Project activities will be resumed in the month of mid of 2020	Principal PPA: 28-09-2006 Amended PPA: 10-09-2009 Revised PPA: 04-01-2011 Term of PPA: 25 years & can be extended mutually
	10	M/s. TATA Power Company Ltd., Mumbai at Begunia, Khurda	1000	25% at full cost plus power generated beyond 80% PLF at variable cost	Proposed for withdrawing from the proposal	Date of PPA: 28-09-2006 Term of PPA: 25 years & can be extended mutually
	11	M/s. Brahmani Thermal Power Pvt. Ltd., Hyderabad [formerly M/s. Navabharat Power Pvt. Ltd.] at Meramundali, Dhenkanal	2250 (2x525 + 2x600)	25% at full cost plus power generated beyond 80% PLF at variable cost	Construction activities yet to start	Date of PPA: 28-09-2006 Term of PPA: 25 years & can be extended mutually
	12	M/s. Angul Energy Ltd. [Formerly M/s. Bhusan Energy (P) Ltd., New Delhi] at Nuahat, Angul	2000	25% at full cost plus power generated beyond 80% PLF at variable cost	Construction activities yet to begin	Date of PPA: 28-09-2006 Term of PPA: 25 years & can be extended mutually
	13	M/s. Visa Power Ltd., Kolkata at Brahmanabasta, Athagarh, Cuttack	1320 (2x660)	25% at full cost plus 7% at variable cost, if Coal Block allocated within the State. Otherwise, VPL shall supply 5% at variable cost	Construction activities yet to begin	Principal PPA: 28-09-2006 Amended PPA: 14-09-2009 Revised PPA: 04-01-2011 Term of PPA: 25 years & can be extended mutually
	14	M/s. Astaranga Power Company Ltd., Bhubaneswar at Astaranga, Puri	2640 (2x660 + 2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, APCL shall supply 12% at variable cost.	Construction activities yet to begin	Date of PPA: 04-01-2011 Term of PPA: 25 years & can be extended mutually
	15	M/s. Aarti Steels Ltd., Ludhiana, Punjab at Ghantikhal, Cuttack	500 (50 + 450)	14% at variable cost, if Coal Block allocated within the State. Otherwise, ASL shall supply 12% at variable cost.	Proposed for withdrawing from the proposal	Date of PPA: 24-10-2009 Term of PPA: 25 years & can be extended mutually

EXISTING AND UP COMING POWER PROJECTS HAVING ODISHA SHARE						
Nature of Plant	Sl. No.	Name of the Plant	Installed capacity as per PPA (MW)	Share of odisha	COD/Probable date of Completion	Date/Term of PPA
Coal Based Thermal Power Plant (IPP)	16	M/s. Sahara India Power Corporation Ltd., Mumbai at Titilagarh, Bolangir	1320 (2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, SIPL shall supply 12% at variable cost.	Proposed for setting up of 200 MW solar power project	Date of PPA: 14-09-2009 Term of PPA: 25 years & can be extended mutually
	17	M/s. Adhunik Power & Natural Resources Ltd., Kolkata at Biramaharajpur, Sonapur	1320 (2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, APNRL shall supply 12% at variable cost.	Construction activities yet to begin	Date of PPA: 05-01-2011 Term of PPA: 25 years & can be extended mutually
	18	M/s. JSL Ltd., Hissar, Haryana at Luni, Dhankanal	1320 (2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, JSL shall supply 12% at variable cost.	Construction activities yet to begin	Date of PPA: 30-12-2010 Term of PPA: 25 years & can be extended mutually
	19	M/s. KU Projects Pvt. Ltd., Hyderabad at Pitamohul, Sonapur	1320 (2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, KUPPL shall supply 12% at variable cost.	Construction activities yet to begin	Date of PPA: 30-12-2010 Term of PPA: 25 years & can be extended mutually
	20	M/s. SPI Ports Pvt. Ltd., Chennai at Mahakalpada, Kendrapara	1320 (2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, SPIPL shall supply 12% at variable cost.	Construction activities yet to begin	Date of PPA: 04-01-2011 Term of PPA: 25 years & can be extended mutually
	21	M/s. Nava Bharat Ventures Ltd., Hyderabad at Kharagprasad, Dhenkanal	60 (1x60)	14% at variable cost, if Coal Block allocated within the State. Otherwise, NBVL shall supply 12% at variable cost.	# 1: 30.11.2015 However, generation is yet to commence	Date of PPA: 04.01.2011 Date of Revised PPA: 30-10-2014 (With out signing of MoU with Govt. of Odisha) Term of PPA: 25 years & can be extended mutually
	22	M/s Shyam Metaliks & Energy Ltd., Hyderabad [Formerly M/s. Shyam DRI Power Ltd., Hyderabad] at Rengali, Sambalpur	60 (2x30)	14% at variable cost, if Coal Block allocated within the State. Otherwise, SMEL shall supply 12% at variable cost.	Units #1 & 2 have been converted to CGP, vide Order dated 17.06.2015 in Case No. 30 of 2010	Date of PPA: 23-10-2009 Term of PPA: 25 years & can be extended mutually
	23	M/s. NSL Orissa Power & Infratech Pvt. Ltd., Hyderabad at Handpa, Boinda, Angul	1320 (2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, NOPIPL shall supply 12% at variable cost.	Proposed for withdrawing from the proposal	Date of PPA: 04-01-2011 Term of PPA: 25 years & can be extended mutually

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EXISTING AND UP COMING POWER PROJECTS HAVING ODISHA SHARE						
Nature of Plant	Sl. No.	Name of the Plant	Installed capacity as per PPA (MW)	Share of odisha	COD/Probable date of Completion	Date/Term of PPA
Coal Based Thermal Power Plant (IPP)	24	M/s. Jindal Power Ltd., Hissar, Haryana at Badakerjang, Angul	1320 (2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, JPL shall supply 12% at variable cost.	Construction activities yet to begin	PPA not yet executed though MoU signed on 07-02-2009
	25	M/s. Kalinga Energy & Power Limited, Bhubaneswar at Sodamal, Kuchinda, Jharsuguda	1000	14% at variable cost, if Coal Block allocated within the State. Otherwise, KEPL shall supply 12% at variable cost.	Construction activities yet to begin	PPA not yet executed though MoU signed on 07-02-2009
	26	M/s. Essar Power (Orissa) Ltd., Mumbai	1000	25% at full cost plus power generated beyond 80% PLF at variable cost	MoU has been cancelled	Principal PPA: 28-09-2006 Term of PPA: 25 years & can be extended mutually
	27	M/s. Vijaya Ferro & Power Pvt. Ltd., Raipur at Turla, Khamar, Kesinga, Kalahandi	120 (4x30)	14% at variable cost, if Coal Block allocated within the State. Otherwise, VFPP shall supply 12% at variable cost.	MoU has been cancelled	Date of PPA: 04-01-2011 Term of PPA: 25 years & can be extended mutually
	28	M/s. CESC Ltd., Kolkata at Neulapoi, Dhenkanal	1320 (2x660)	25% at full cost plus power generated beyond 80% PLF at variable cost	MoU has been cancelled	PPA: 28-09-2006 Amended PPA: 05.09.2009 Revised: 31.12.2010 Term of PPA: 25 years & can be extended mutually
	29	M/s. Chambal Infrastructure Ventures Limited, New Delhi at Siaria, Dhenkanal	1320 (2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, CIVL shall supply 12% at variable cost.	MoU has been cancelled	Date of PPA: 05-01-2011 Term of PPA: 25 years & can be extended mutually
	30	M/s. Visaka Thermal Power Pvt. Limited, Bhubaneswar at Rairakhol, Sambalpur	1320 (2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, VTPPL shall supply 12% at variable cost.	MoU has been cancelled	Date of PPA: 15-09-2009 Term of PPA: 25 years & can be extended mutually
	31	M/s. BGR Energy Systems Ltd., Nellore, A.P. at Bhapur, Nayagarh	1320 (2x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, BESL shall supply 12% at variable cost.	MoU has been cancelled	Date of PPA: 04-01-2011 Term of PPA: 25 years & can be extended mutually
	32	M/s. J.R. Power Gen. Pvt. Ltd., Cathedral Road, Chennai at Baija, Dhaurpalli Kishore Nagar Tahsil of Angul	1980 (3x660)	14% at variable cost, if Coal Block allocated within the State. Otherwise, JRPGL shall supply 12% at variable cost.	MoU has been cancelled	Date of PPA: 05-01-2011 Term of PPA: 25 years & can be extended mutually

EXISTING AND UP COMING POWER PROJECTS HAVING ODISHA SHARE						
Nature of Plant	Sl. No.	Name of the Plant	Installed capacity as per PPA (MW)	Share of odisha	COD/Probable date of Completion	Date/Term of PPA
Coal Based Thermal Power Plant (NTPC & PSU)		NTPC & PSU Plant				
	1	TTPS, NTPC, Talcher Thermal	460 MW (4x60 + 2x110) MW	100%	#1:17.12.1967 #2:28.3.1968 #3:11.7.1968 #4:11.4.1969 #5:24.3.1982 #6:24.3.1983	Date of PPA: 08.03.1995 Term of PPA-25 Years & can be extended mutually
	2	Ib Thermal Power Station (OPGC), Stage-I at Banharpalli, Jharsuguda	420 MW (2x210) MW	100%	#1:20.12.1994 #2:01.07.1996	Date of PPA: 13.08.1996 Term of PPA: 30 years & can be extended mutually
	3	Ib TPS, Expansion Project, OPGC at Banharpalli, Jharsuguda (Unit 3 & 4)	1320 (2x660)	75% (up to 31.03.2023) 100% w.e.f. 01.04.2023	# 3: Jul, 2019 # 4: Aug, 2019	Date of PPA: 04-01-2011 Supplementary PPA: 24.01.2019 Term of PPA: 25 years & can be extended mutually
	4	Farakka STPS, Stage - I & II	1600 (3x200 + 2x500)	14.18%	Unit-I-1.11.1986 Unit-II 01.10.1987 Unit-III 01.09.1988 Unit-IV 01.07.1996 Unit-V 01.04.1995	Date of PPA: 25.05.1993 Term of PPA-25 Years & can be extended mutually
	5	Farakka STPS, Stage - III	500 (1x500)	17.15%	Unit-I 04.04.2012	Date of PPA: 27.12.2010 Term of PPA-25 Years & can be extended mutually
	6	Kahalgaon STPS, Stage - I	840 (4x210)	15.77%	Unit-I 01.01.1995 Unit-II 01.04.1995 Unit-III 01.02.1996 Unit-IV 01.08.1996	Date of 25.05.1993 Term of PPA-25 Years & can be extended mutually
	7	Kahalgaon STPS, Stage - II	1500 (3x500)	2.62%	Unit-I 01.08.08 Unit-II 30.12.08 Unit-III 20.03.10	Date of PPA: 11.08.06 Term of PPA-25 Years & can be extended mutually
	8	Talcher STPS, Stage - I	1000 (2x500)	32.34%	Unit-I 01.07.97 Unit-II 01.07.97	Date of PPA: 25.05.93 Term of PPA-25 Years & can be extended mutually
	9	Talcher STPS, Stage - II	2000 (4x500)	10%	Unit-I 01.08.03 Unit-II 01.03.04 Unit-III 01.11.04 Unit-IV 01.08.05	Date of PPA: 20.01.07 Term of PPA-25 Years & can be extended mutually

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EXISTING AND UP COMING POWER PROJECTS HAVING ODISHA SHARE						
Nature of Plant	Sl. No.	Name of the Plant	Installed capacity as per PPA (MW)	Share of odisha	COD/Probable date of Completion	Date/Term of PPA
Coal Based Thermal Power Plant (NTPC & PSU)	10	North Karanpura STPS, NTPC at Hazaribad & Chhatra, Bihar	1980 (3x660)	20%	# 1: Mar-2021 # 2: Sept-2021 # 3: Mar-2022	Date of PPA: 11-08-2006 Term of PPA: 25 years & can be extended mutually
	11	Integrated Thermal Power Station, NTPC at Darlipalli, Sundargarh	3200 (4x800)	50%	# 1: 01.03.2020 # 2: Sep-2020 # 3 & 4: Construction activities yet to start	Date of PPA: 27-12-2010 Term of PPA: 25 years & can be extended mutually
	12	NSPCL, Rourkela, JV of NTPC & SAIL at RSP, Rorkela	250 (1x250)	25 MW	Commissioning of the Unit expected in Jun, 2020	Date of PPA: 04-01-2011 Term of PPA: 25 years & can be extended mutually
	13	OTPCL (JV of OMC & OHPC) at Kamaksha Nagar, Dhenkanal	3200 (4x800)	100%	Construction activities yet to start	Date of PPA: 31-12-2010 Term of PPA: 25 years & can be
	14	TTPS Expansion Project, NTPC at Talcher Thermal, Angul	1320 (2x660)	50%	Construction activities yet to start	Date of PPA: 20.01.2007 Term of PPA: 25 years & can be extended mutually
Central Hydro Power Projects	1	Chukha HEP, Bhutan	336 (4x84) (270 MW ER Allocation)	15.19%	1988	Date of PPA: 21.08.2002 Term of PPA & can be extended mutually
	2	Tala HEP, Bhutan	1020 (6x170)	4.25%	31.07.2006	Date of PPA: 27.09.2006 Term of PPA: 25 years & can be extended mutually
	3	Teesta-V PS (NHPC)	510 (3x170)	20.59%	10.04.2008	Date of PPA: 04.04.2008 (Original) 21.02.2017 (Renewal PPA) Term of PPA: 25 years & can be extended mutually
	4	Mangdechhu HEP (NHPC), Bhutan	720 (4x180)	10.97%	16.08.2019	Date of PPA: 30.08.2019 Term of PPA: 25 years & can be extended mutually

EXISTING AND UP COMING POWER PROJECTS HAVING ODISHA SHARE						
Nature of Plant	Sl. No.	Name of the Plant	Installed capacity as per PPA (MW)	Share of odisha	COD/Probable date of Completion	Date/Term of PPA
State Sector Hydro Power Projects		State Hydro Power Stations				
	1	Hirakud	275.5 (2x49.5 + 2x32 + 3x37.5) (Unit 5&6: Under RM&U)	100% - 5 MW for CSEB	# 1: 11.05.1958 # 2: 11.11.1957 # 3: 18.12.1956 # 4: 13.05.1957 # 5: 19.04.1962 # 6: 05.08.1963 # 7: 13.09.1990	Date of PPA: 20.11.2009 Term of PPA: 25 years & can be extended mutually
	2	Chiplima	48 (3x24) (Unit 3: Under RM&U)	100%	# 1: 15.07.1962 # 2: 26.11.1962 # 3: 01.02.1964	Date of PPA: 20.11.2009 Term of PPA: 25 years & can be extended mutually
	3	Balimela	250 (5x50)	100%	# 1: 14.08.1973 # 2: 25.01.1974 # 3: 24.08.1974 # 4: 26.03.1975 # 5: 07.05.1976 # 6: 05.01.1977 # 7: 23.12.2008 # 8: 23.01.2009	Date of PPA: 20.11.2009 Term of PPA: 25 years & can be extended mutually
	4	Rengali	510 (6x60 + 2x75)	100%	# 1: 27.08.1985 # 2: 26.03.1986 # 3: 10.08.1989 # 4: 19.03.1990 # 5: 14.08.1992	Date of PPA: 20.11.2009 Term of PPA: 25 years & can be extended mutually
	5	Upper Kolab	320 (4x80)	100%	# 1: 15.03.1988 # 2: 14.04.1988 # 3: 10.02.1990 # 4: 12.01.1993	Date of PPA: 20.11.2009 Term of PPA: 25 years & can be extended mutually
	6	Upper Indravati	600 (4x150)	100%	# 1: 19.09.1999 # 2: 28.12.0999 # 3: 04.10.2000 # 4: 19.04.2001	Date of PPA: 18.08.1998 Term of PPA: 25 years & can be extended mutually
	7	Machhkund	120 (3x17 + 3x23)	50%	# 1: 19.08.1955 # 2: 11.12.1955 # 3: 04.07.1957 # 4: 15.01.1959 # 5: 12.08.1959 # 6: 12.08.1960	Original PPA: 26.01.1946 15.12.1978 (Supplementary Agreement) Term of PPA: 25 years & can be extended mutually

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Renewable Energy Projects from which GRIDCO is Procuring Power

IN SIDE THE STATE

A						
SOLAR						
Sl. No.	Name of the Project	Project Location	Installed/ Contracted Capacity (in MW)	Date of PPA/PSA	Term of PPA/PSA	COD date
1	M/s Raajratna Energy Holdings Pvt. Ltd.	Vil: Sadeipalli, Dist: Bolangir	1	21.08.2010	25 years from COD Term of PPA: 25 years & can be extended mutually	13.07.2011
2	M/s S.N. Mohanty,	Vil: Patrapur, G.P: Kundeipada, Block: Baranga, Dist: Cuttack	1	21.08.2010	- do -	23.08.2011
3	M/s. MGM Green Energy Ltd.	Vil: Patrapada, G.P: Tangi, Block: Tangi, Dist: Khurda	1	21.08.2010	- do -	13.10.2011
4	M/s Molisati Vinimay Pvt. Ltd.,	Vil: Ranja, G.P.: Danara, Block: Barkote, Dist: Deogarh	1	21.08.2010	- do -	22.12.2011
5	M/s Jay Iron and Steel Ltd.	Vil: Haripada, Block: Barrna, Dist: Sambalpur	1	21.08.2010	- do -	11.03.2012
6	M/s Abacus Holdings Pvt. Ltd.,	Vil: Ainlachhat, Chadheipanka, Block: Ulunda, Dist: Sonepur	1	21.08.2010	- do -	13.03.2012
7	M/s Shri Mahavir Ferro Alloys Pvt. Ltd.,	Vil: Tankajoda, Block: Bonai, Dist: Sundergarh	1	21.08.2010	- do -	15.03.2012
8	M/s Vivacity Renewable Energy Pvt. Ltd.	Vil: Benta, G.P.: Tangi, Block: Tangi, Dist: Nayagarh	1	21.08.2010	- do -	16.03.2012
9	M/s Aftaab Solar Pvt. Ltd.	Vil: Sadeipalli, Dist: Bolangir	5	12.01.2011	- do -	07.02.2012
10	M/s. Alex Green Energy Ltd.	Chingribandh, Patnagarh, Bolangir	5	26.05.2012	- do -	19.08.2014
11	ACME Odisha Solar Power Pvt. Ltd.	Deogaon, Bolangir	25	06.03.2013	- do -	22.06.2015
12	GEDCOL	Manamunda, Boudh, Odisha	20	12.08.2014	- do -	10 MW - 09.03.2016 5 MW - 26.03.2016 5 MW - 06.06.2016
13	M/s Jyoti Solar Solutions Pvt. Ltd.	Ganjahuda, Patnagarh, Bolangir	10	25.10.2016	- do -	04.05.2018
14	M/s Sadipali Solar Pvt. Ltd.	Kandel & Sindhabhalli, Kesinga, Kalahandi	20	25.10.2016	- do -	14.05.2018
15	M/s Dekshin Odisha Urja Pvt. Ltd.	Ghuchapali, Padampur, Bargarh	40	25.10.2016	- do -	05.09.2018
16	M/s Vento Power & Energy Ltd.	Dendoguda, Kesinga, Kalahandi	40	25.10.2016	- do -	26.09.2018
17	M/s Vento Power Pvt. Ltd.	Kurkhai, Tusra, Balangir	40	25.10.2016	- do -	18.01.2019
18	M/s Vento Power Infra Pvt. Ltd.	Solepali, Tusra, Balangir	40	25.10.2016	- do -	19.01.2019
19	M/s Vento Energy Infra Pvt. Ltd.	Panaspadar, Tentulikhunti, Nabarangpur	40	25.10.2016	- do -	21.01.2019
20	M/s Vento Power Projects Pvt. Ltd.	Dendoguda, Kesinga, Kalahandi	40	25.10.2016	- do -	21.01.2019
21	GEDCOL	Roof top solar on Govt./PSU buildings and institutes	4	Merch, 2019	- do -	31.03.2019
Sub Total			337			

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Sl. No.	Name of the Project	Project Location	Installed/ Contracted Capacity (in MW)	Date of PPA/PSA	Term of PPA/PSA	COD date
B	SMALL HYDRO ELECTRIC POWER PROJECTS					
22	Meenakshi Power Ltd.	Middle Kolab, Koraput	(2x12.5) = 25	19.12.2008	- do -	14.07.2009
23		Lower Kolab, Malkangiri	(3x4) = 12		- do -	
24	Orissa Power Consortium Ltd. (OPCL)	Samal Barrage, Angul	(4x5) = 20	26.05.2009	- do -	12.10.2009
25	Odisha Power Generation Corporation (OPGC)	Kendupetna Small Hydro Project, Salipur, Cuttack	0.50	30.05.2020	- do -	23.01.1994
26		Biribati Small Hydro Project, Biribati, Cuttack	0.65		- do -	20.02.1994
Sub Total			58.15			
C	BIO MASS POWER PROJECTS					
27	Shalivahana Green Energy Ltd.	Nimidha, Dhenkanal	(1x20) = 20	30.12.2010	- do -	19.12.2011
Sub Total			20			
TOTAL			415.15			

OUT SIDE THE STATE

A SOLAR						
1	Through NVVN Ltd.	Rajasthan	15	12.01.2011	- do -	Aug-13
2	Dadri Solar PV Station (Developed by NTPC)	Dadri, Gaziabad, UP	5	26.04.2011	- do -	30.03.2013
3	Faridabad Solar PV Station (Developed by NTPC)	Faridabad, Haryana	5	26.04.2011	- do -	31.03.2014
4	Through SECI	Gujarat	40	12.08.2014	- do -	20 MW from Mar '15, 20 MW from Sep '15, 20 MW from Jun '16
5	Through SECI	Rajasthan	10	12.08.2014	- do -	June '15
Sub Total			75			
B WIND						
6	ISTS Connected Wind Power Projects Phase-I (Through PTC INDIA LTD)	M/s OSTRO-KUTCH Wind Power Pvt. Ltd., Gujarat	50	20.07.2017	- do -	30.03.2019
7	ISTS Connected Wind Power Projects Phase-II (Through SECI)	M/s Green Infra Wind Energy Ltd., Kutch, Gujarat	100	24.11.2017	- do -	50.4 MW w.e.f 25.06.2019
Sub Total			150			
Total			225			
GRAND TOTAL			640.15			

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ANNEXURE XV

M/s. DPCL Environment Dept. Organogram

