



Ref: DSTPP/EMG-AU/2024/29

**दर्लिपाली/Darlipali**

dated:10.12.2024

To,  
Addl. Principal Chief Conservator of Forest(C)  
Integrated Regional Office  
Ministry of Env., Forest and Climate Change,  
Regional Office (EZ), A/3, Chandrasekharpur,  
Bhubaneswar-751023.

Sub: Submission of half yearly EC Compliance Report of Darlipali STPP, Stage-I  
(2x800MW) for the period April,2024 to November,2024.

Ref: No. J-13012/65/2008-IA.II (T) dated 17.02.2014.

Dear Sir,

Please find herewith enclosed the Half Yearly Compliance Status Report for the Period April,2024 to September,2024 w.r.t. the Environmental Clearance stipulated vide the above referred MOEF&CC letter for Darlipali Super Thermal Power Project (2x800 MW) Dist- Sundargarh (Odisha).

The above is submitted for kind information Please.

Thanking You,

Yours faithfully

(Hare Ram Singh)  
General Manager (O&M)

Copy to:

1. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, CBD Cum -Office, East Arjun Nagar, New Delhi-110032.
2. The Member Secretary, State Pollution Control Board-Odisha Parivesh Bhawan, A/118, Nilakanth Nagar, Unit-VIII, Bhubneshwar
3. RO, OSPCB, Rourkela. Odisha

दर्लिपाली सुपर थर्मल पावर प्रोजेक्ट, पोस्ट : दर्लिपाली, जिला : सुन्दरगढ़-770025 (ओडिशा), दूरभाष : 06622-295114  
Darlipali Super Thermal Power Project, At/P.O : Darlipali, Dist : Sundargarh-770025 (Odisha), Tel : 06622-295114

पंजीकृत कार्यालय : एनटीपीसी भवन, स्कोप कॉम्प्लेक्स, 7, इन्स्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली-110 003

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**Corporate Identification No-L40101DL1975G01007966**



A Maharatna Company

**DARLIPALI SUPER THERMAL POWER PROJECT, STAGE-I (2X800 MW)**

**HALF YEARLY ENVIRONMENTAL COMPLIANCE REPORT  
(April,2024 to Sept,2024)**

**COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS**

*Vide Letter No. J- 13012/65/2008-IA. II (T) Dated 17<sup>th</sup> February 2014*

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<b>A. Specific Conditions:</b>		
(i)	Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.	NTPC vide its letter dated 19.02.2014 has submitted a Project Vision Document to the Regional Office of Ministry of Environment and Forest & Climate Change (MoEF&CC) at Bhubaneswar.
(ii)	Scheme for implementation for harnessing solar power within the premises of the plant particularly at available roof tops shall be formulated and status of implementation shall be submitted periodically to the Regional Office of the Ministry from time to time.	Roof top solar system is functioning in 11 building roofs out of 13 building roofs.
(iii)	Provision for installation of FGD shall be provided for future use.	Unit#2: FGD is under operation from 01.07.2024 Unit-1: FGD is commissioned and under trial & run
(iv)	Coal transportation to plant site shall be undertaken by rail and no road transportation shall be permitted.	Maximum Coal is being transported through rail from Dulanga Coal mine (NTPC-MGR network). In addition to above, coal from NLC- Talabira is transported.
(v)	Fly ash shall not be used for mine void filling or for agricultural purpose.	It is being complied.
(vi)	A detailed study on chemical composition particularly heavy metal and radio activity contents shall be carried out through a reputed institute and report shall be submitted to Regional Office of the Ministry. Only after ascertaining its	A detailed study on chemical composition of coal used particularly heavy metal has been done by NIT Rourkela and report submitted to regional office of OSPCB, Rourkela.

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	radioactive level shall fly ash be utilized for brick manufacturing or supplied to brick manufacturers.	
(vii)	The project proponent shall carry out a long-term R & D on Boiler efficiency vis-à-vis large variation on ash content of coal and submit its findings to the Ministry at a later stage.	Maximum Coal supply to Darlipali is from single source i.e. IB area. So there is no variation in ash content.
(viii)	The two stacks of 275m height with flue gas velocity not less than 22 m/s shall be installed and provided with continuous online monitoring equipments for SO <sub>x</sub> , NO <sub>x</sub> , and PM <sub>2.5</sub> & PM <sub>10</sub> . Mercury emissions from stack may also be monitored on periodic basis.	A bi-flue stack of 275 meters has been installed. Also, the exit velocity of 22 m/sec is being maintained. Continuous online stack monitoring facility for measurement of particulate matter (PM), SO <sub>2</sub> , NO <sub>x</sub> & Mercury emissions from stack are being done.
(ix)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> .	The High Efficiency Electrostatic Precipitators (ESPs) are designed with efficiency of 99.93 % in order to restrict the particulate emission below 50 mg/Nm <sup>3</sup> under all design conditions in compliance to the latest MOEF&CC notifications.
(x)	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Adequate no. of dry fog dust suppression and extraction system are provided in coal handling area including coal stock yard area, ash handling points, transfer areas and other vulnerable dusty areas for control of fugitive dust emissions.
(xi)	Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to	In order to achieve 100% fly ash utilization, NTPC Darlipali has started issuing Fly Ash to, NHAI, & filling of low lying area and stone quarries. Approx. 24.01 LMT fly ash has been utilized in

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	time.	FY-23-24. The same is expected to rise progressively in the forthcoming years.
(xii)	High concentration slurry disposal systems shall be adopted.	The project is designed to adopt High Concentration Slurry Disposal (HCSD) for disposal of fly ash. HCSD system for both Units are in operation.
(xiii)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Dry fly ash silo of capacity 3 x 700 MT & evacuation system has been installed and is operational. Additionally, Dry fly ash silo of capacity 4 x 1500 MT is also under progress for storage and supply of fly ash through road and rails to the maximum extent. Unutilized fly ash of Unit-1 & 2 is presently being disposed off in the ash pond in the form of High Concentration slurry through HCSD lines.
(xiv)	Ash pond shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time adequate safety measures shall also be implemented to protect the ash dyke from getting breached. Ash pond water shall be re-circulated and utilized.	To avoid the ground water contamination from bottom ash slurry, the bottom ash lagoon -3 and Over Flow Lagoon have been lined with impervious liner of 300mm thickness. Soil has been blended with <b>Bentonite solution</b> to achieve the required permeability. The structure of ash dykes has been designed, constructed and operated as per <b>State of the Art of engineering practices</b> for the design and construction of earth dams with adequate factor of Safety. The design of ash dyke has been done by taking into consideration of the <b>seismic</b> parameters.
(xv)	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 34 % respectively at any given	The said stipulation is being complied.

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	time. In case of variation of coal quality at any point of time fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.	
(xvi)	Hydrogeology of the area shall be reviewed annually from an institute /organization of repute to assess impact of surface water and ground regime (especially around ash dyke). in case any deterioration is observed specific mitigation measures shall be undertaken and reports/ data of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	Hydrogeological study of the project area including ash dyke area has been conducted through National Institute of Hydrology (NIH), Roorkee.  Annual review of Hydrology is carried out. The Final study Report is submitted to MOEF&CC
(xvii)	No ground water shall be extracted for use in operation of the power plant even in lean season.	No ground water has been extracted and shall not be extracted for use in operation of the power plant even in lean season.
(xviii)	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up/operation of the power plant.	No water body including natural drainage system of the area has been disturbed due to activities associated with the setting up of the power plant.
(xix)	Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/ Rivers (as applicable) even in lean season.	It is being maintained as per DOWR, Odisha.
(xx)	Land and water requirement shall be restricted as per latest CEA norms issued.	Land and water requirement has been restricted as per the CEA norms.
(xxi)	COC of 5.0 shall be adopted.	COC of 5.0 has been adopted.

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	Closed cycle cooling system with cooling towers shall be adopted.	
(xxii)	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Adequate (18 nos) of piezometers, settlement marker has been installed for regular monitoring of ground water level in and around ash pond area as per stipulation.  Monitoring around the ash pond area is being carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to SPCB on monthly basis.
(xxiii)	Monitoring surface water quality in the area shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	Monitoring of Surface water in the areas is being carried out regularly as per stipulations and reports is being submitted to State Pollution Control Board. Heavy metal monitoring in ground water are also undertaken and results is being submitted monthly.
(xxiv)	Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB.	An effluent management scheme (Effluent Treatment Plant-ETP, Sewage Treatment Plant- STP and Coal Slurry Settling pit-CSSP) is functional and the wastewater is being treated as per the prescribed statutory standards of OSPCB/CPCB. Darlipali STPP, Stage-I has been designed with Zero Liquid Discharge (ZLD) system. ZLD is under operation.

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(xxv)	The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain Water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the Regional Office of the Ministry within six months.	<p>Rainwater harvesting study has been conducted and final report has been submitted to CGWB.</p> <p>As per study report, Rain water harvesting structures are being constructed. 16 water recharge pits constructed in township area.</p>
(xxvi)	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	All the soil & earth material is being utilized within the plant premises only.
(xxvii)	At-least three nearest village shall be adopted and basic amenities like development of roads, drinking water supply, primary health centre, primary school etc shall be developed in co-ordination with the district administration.	<p>Three villages (Darlipali, Raidihi &amp; Chuabahal) have been adopted. Works for these villages are being carried out as per the request of district administration / local MLA/MP, Sarpanch, villagers etc.</p> <p>All infrastructure development works like development of Roads, drinking water supply, etc, as outlined in detail are being taken care as per the requirement and recommendation of district administration.</p>
(xxviii)	The project proponent shall also adequately contribute to the development of the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby	<ul style="list-style-type: none"> <li>• Piped drinking water supply scheme for Darlipali, Raidihi, Ghantimal, Chuabahal, Nagalkata (Sundaragarh district), Tileimal, Niktimal, Chichinda, Kechobahal, Chadrama (Jharsuguda)</li> </ul>



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**DARLIPALI SUPER THERMAL POWER PROJECT, STAGE-I (2X800 MW)**

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	villages and schools shall be undertaken in a time bound manner.	<p>district) has been implemented through the respective RWSS. Estimated cost of Rs. 3.09 Cr and Rs. 3.34 Cr respectively. UC received from RWSS, Sundargarh is Rs. 2.15 Cr. UC received from RWSS, Jharsuguda is Rs. 2.02 Cr</p> <ul style="list-style-type: none"><li>• Developmental works as identified by RPDAC, Panchayats, villagers are being taken up in neighboring villages. Works are being done as per request of district administration / local MLA/MP, Sarpanch, villagers etc.</li><li>• Drinking water through tankers is facilitated in 4 Gram Panchayats (Loisingh, Gourmal, Chandnimal &amp; Telenpali) in critical summer months. The initiative is covering a total number of 9 villages (5 villages in Gourmal, 2 villages in Chandnimal and 1 village each in Loisingh &amp; Telenpali).</li><li>• Solar based Bore wells are being installed through the RWSS- Sundargarh in Darlipali village, for providing drinking water to the villagers.</li></ul>
(xxix)	CSR scheme shall be undertaken based on need based assessment in and around the villages within 5 km of the site and in constant consultation with the village Panchayat and the District	<p>(i) Under ICD activities Rs.42.24 crores has been spent on various development activities as per request from villagers.</p> <p>(ii) Under ICD Rs. 10.00 crore have been deposited with</p>



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	<p>Administration. As part of CSR employment of local youth after imparting relevant training as may be necessary shall be undertaken as committed.</p>	<p>collector Sundargarh for face lifting of District Head Quarter Hospital at Sundargarh which caters to need of the adjoining villages. Out of this UC of Rs. 9.96 crore have been received by us till date.</p> <p>(iii) For 53 projects finalized by SDPDS at an estimated cost of 13.92 crore, Rs.13.45 crore have been deposited. Till date UC of 11.99 crore have been received. Other projects are in progress through various govt. departments.</p> <p>(iv) Rs. 50 lakhs have been deposited with SDPDS for development of Hockey turf at Balishankara which will help the local villagers for training in Hockey.</p> <p>(v) Projects finalized in 2016-17 by SDPDS, Rs.8.18 crore have been deposited till date. UC of Rs. 6.61 Crore have been received till date.</p> <p>(vi) In Jharsuguda district, against Projects roads other CD activities at an estimated cost of Rs.11.50 crore, Rs.9.24 Crore have been deposited with collector Jharsuguda. Against this UC of Rs. 8.00crores (Approx.) have received.</p> <p>(vii) Additionally, as per request received from Sarpanch and other stake holders, NTPC has undertaken various community development works at an estimated cost</p>



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		<p>of Rs.10.5 crores. Out of this work of RS.9.00 crores have been completed. Rest works are in progress.</p> <p>(viii) During 2020-21, 23 projects were identified with an estimate of Rs.1.80 Crore. Rs.0.90 Cr has been deposited for aforesaid projects.</p> <p>(ix) Some of the projects are completed. On receipt of UC Rs.38.50 Lakhs has been deposited against 1.80 Crore</p> <p>For technical skill development training to project affected youths, we have imparted skill development training to 112 persons at CIPET, Bhubaneswar. Stitching &amp; Tailoring Training has been conducted in resettlement colony, Raidihi and Darlipali Villages. Around 127 village women were Completed the training. 45 Farmers were given training on Modern Farming. Two SHGs (27 members) were given training for Mushroom farming.</p> <p>NTPC, Darlipali has sponsored 69 PAP candidates for two year ITI courses at CIPET, Bhubaneswar with an estimated cost of 1.86 Crores, in order to upgrade the skillsets of the project affected populace and improve their employability. The current batch of 20 candidates is fourth in a row.</p> <p>NTPC Darlipali has identified around 39 Projects with an estimated Rs.2.39 Crore, in consultation with District administration, local MLA ,MP,</p>

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		<p>villagers, local representatives etc. to improve the living standard of people in the area.</p> <p>Big Ticket Activities</p> <ol style="list-style-type: none"> <li>1. Medical College and Hospital at Sundargarh, has been established with an outlay of Rs. 417.77 Crore. The 2<sup>nd</sup> batch admissions have been completed post handing over of the institution to the Govt.</li> <li>2. Rs.61.00 Crore has been deposited with Executive Engineer, PHD, Jharsuguda for the project work Supply of Drinking water to Brajrajnagar, Belpahar &amp; Jharsuguda Municipality.</li> </ol> <p>The Government Polytechnic has been constructed at Darlipali, with a total outlay of 25 crores. Admissions have been started this year with the commencement of classes.</p>
(xxx)	Rights of tribals and others, whose sustenance is dependent on the land (if any) falling in the project area, shall be identified and protected in accordance with existing laws.	Tribals residing in project area have been identified and are being compensated as per existing relevant laws.
(xxxi)	An amount of Rs 46.0 Crores shall be earmarked as one-time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 9.10 Crores per annum till the life of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six month along with	<p>A requisite fund has been earmarked for implementing CSR-CD activities for the project and shall be utilized in accordance with the said stipulations.</p> <p>Rs. 46 Crore budget till COD</p> <ul style="list-style-type: none"> <li>• Rs. 46 Crore budget till COD has been identified in the R&amp;R Plan approved by RPDAC.</li> <li>• Stipulated expenditure of</li> </ul>

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	road map for implementation.	<p>Rs. 9.10 CSR Per annum will be spent after COD as per this stipulation</p> <p>Till date developmental Infra/ Welfare projects of Rs. 47.67 crore has been identified. Against this Rs.40.81 crore funds have been deposited. Out of this, works worth 35.57 crore have been completed. Rest works are in progress.</p>
(xxxii)	It shall be ensured that an in-built monitoring mechanism for the CSR schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time. The achievements should be put on company's website.	<ul style="list-style-type: none"> <li>• Institutional set up at NTPC's project / Regional HQ/ Corporate Centre is in place for monitoring R&amp;R/CSR activities of Darlipali project.</li> <li>• Progress of development works is being monitored by RPDAC through SDPDS / JDPDS.</li> </ul> <p>Social audit will be done after completion of 1<sup>st</sup> phase of 53 schemes approved by RPDAC.</p>
(xxxiii)	Green Belt consisting of 3 tiers of plantations of native species around plant not less than 100m width shall be raised (except in areas not feasible). The density of trees shall not less than 2500per ha with survival rate not less than 80%. Additional green belt of appropriate density and width not less than 50 m at-least, shall be developed between the ash pond and the village facing the ash pond.	<ul style="list-style-type: none"> <li>• Around 390 acres of land has been envisaged for the green belt.</li> <li>• Green Belt around the Main Plant area and Township area are being planted.</li> <li>• Extensive Afforestation are being undertaken at all available spaces in and around project.</li> <li>• Avenue Plantation along the Road has been done.</li> <li>• Plantation around ash dyke area has been completed.</li> </ul>

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		<p>For green belt development, plantation through Odisha State Forest Development Corporation (OFDC) has been done. The work is in progress. Till date more than 197 acres area has been developed as green belt.</p>
(xxxiv)	<p>An Environmental Cell shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the head of the organization.</p>	<p>An Environment Management Group (EMG) has been set up at Darlipali STPP. The EMG is responsible for implementing and monitoring the stipulations. EMG are having sufficient trained manpower and equipment for environmental monitoring and other environmental related activities to ensure compliance with statutory requirements. It interacts regularly with the State Pollution Control.</p>
<p><b>B. General Conditions</b></p>		
(i)	<p>The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.</p>	<p>The project is having an integrated scheme for treatment, re-cycle and re use of effluents and shall operate on a near zero liquid discharge system. Provision is being kept to re-circulate cooling water and ash pond effluent. The cooling tower blow down is being used fully for ash handling, service water system, coal handling &amp; fire fighting.</p> <p>The effluent treatment system comprising of neutralization pit for DM plant regeneration waste, oil separator/skimers for oily waste, coal slurry settling pond for coal handling plant effluents, lamella clarifier for service water effluents and cooling towers for hot water etc, have been</p>

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		<p>provided. The effluents will be treated adequately and discharged through CMB. The treated effluent conforms to the stipulated regulatory standards. Effluent Treatment Plant (ETP), Coal Slurry settling pond (CSSP), construction is completed. ZLD system is under operation.</p>
(ii)	<p>A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising green belt/plantation.</p>	<p>All domestic sewage emanating from township is being treated in Sewage Treatment Plant(STP). The treated sewage conforming to prescribed standards is being utilized for plantation &amp; raising greenbelt.</p>
(iii)	<p>Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.</p>	<p>Hydrant system for covering the entire power station including all the auxiliaries and buildings in the plant area are being implemented. The system has been completed with piping, hydrants, valves, instrumentation, hoses, nozzles, hose boxes/stations etc.</p>
(iv)	<p>Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS shall be made in the plant area in consultation with department of Explosives, Nagpur; Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.</p>	<p>Storage facilities for auxiliary liquid fuel LDO are designed conforming to the safety standards and where risk is minimal. A detailed Disaster Management Plan has been prepared by Disaster Management Institute, Bhopal. <b>DMP</b> has been displayed in Darlipali intranet. Mock drill is being conducted every fortnightly by CISF (Fire Wing).</p>
(v)	<p>First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction</p>	<ul style="list-style-type: none"> <li>• Adequate infrastructure facilities, such as sanitation, restroom, medical facilities, safety, and suitable water</li> </ul>

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	phase.	<p>supply are being provided at various stages of project construction to the labor colonies. The sanitary waste from these areas are being treated suitably under Solid Waste Management Contract.</p> <ul style="list-style-type: none"> <li>• Safety equipment such as earplugs and earmuffs, helmets, face shields, safety goggles etc. safety nets are being provided to workers engaged in high risk areas.</li> <li>• Plant first aid center &amp; stabilization center have been set up to provide first aid &amp; emergency treatment to injured and other patients. Lifesaving equipment like cardiac monitor, defibrillator, oxygen concentrator etc. are available in plant stabilization center. Basic life support ambulance and advance life support ambulances are available at site to transport injured workers to nearby hospitals.</li> </ul>
(vi)	<p>Noise levels emanating from turbines shall be limited to 85 dB (A) from source. For people working in the high noise area, requisite personal protective equipment like ear plugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.</p>	<p>Design specification for the equipments has been made to comply with the stipulation. Personal protective equipment has been arranged through contractors during construction phase. Periodic examination of workers is being done as stipulated.</p> <p>The workers of generator halls and other high noise area are being provided with appropriate ear protection devices.</p>
(vii)	Regular monitoring of ambient	Regular monitoring of AAQ is

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	<p>air ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, PM<sub>2.5</sub> &amp; PM<sub>10</sub> and Hg shall be carried out in the impact zone and record maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional office of this Ministry. The data shall also be put on the website of the company.</p>	<p>being done of the plant. Six (6) no. of AAQMS equipment are functional at site. Presently environmental parameters are being transmitted to the OSPCB &amp; CPCB on real time basis. Additionally, strengthening of data transmission through leased line has been completed.</p> <p>The location of the monitoring stations and frequency of monitoring has been decided in consultation with SPCB.</p>
(viii)	<p>Provision shall be made for the housing of construction labor (as applicable) within the site with all necessary infrastructures 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 structure to be removed after the completion of the project.</p>	<p>The same has been kept in contractor's scope at the time of project construction. The major agencies like L&amp;T, TPL, SOMA etc. had been provided with adequate infrastructure facilities such as sanitation, restroom, medical facilities, drinking water to work force. The construction of the both the units is completed and under operation.</p>
(ix)	<p>The project proponent shall advertise in at least two local news papers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State</p>	<p>The information of Environmental Clearance was published in Two news papers widely circulated in the region;</p> <ol style="list-style-type: none"> <li>1. On dated: 22.02.2014 in "Times of India" (English).</li> <li>2. On dated: 23.02.2014 in "Samaj" (vernacular language).</li> </ol>



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	Pollution Control Board/Committee and may be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	
(x)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila parishad/ Municipal Corporation, urban local body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	A copy of the clearance letter has been also forwarded to the offices of concerned Zila parishad/ Municipal Corporation vide NTPC letter dated 24.02.2014 and to the concerned Panchayat vide NTPC letter dated 26.02.2014. The Environmental Clearance (EC) was also posted on the NTPC website on 18.02.2014.
(xi)	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM <sub>2.5</sub> & PM <sub>10</sub> ), SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	The latest Half Yearly Compliance(HYC) status report of the stipulated environmental clearance conditions is regularly being submitted to the Regional Office (Eastern Zone) of MOEF&CC at Bhubaneswar and at the same time being uploaded on the NTPC website of the company as per the stipulation.  The display of ambient air quality in terms of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> is being displayed in the Videowall at main gate of company in the public domain.
(xii)	The environment statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment	It is being submitted to State Pollution Control Board.



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**DARLIPALI SUPER THERMAL POWER PROJECT, STAGE-I (2X800 MW)**

<b>SI No</b>	<b>MOEF STIPULATION</b>	<b>STATUS AS ON 30.09.2024</b>
	(protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	
(xiii)	The project proponent shall submit six monthly reports on the status of the implementations of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by email to Regional office, Ministry of Environment and Forests.	Six monthly progress reports for the period April,2024 to Sept,2024 is being submitted herewith.
(xiv)	Regional office of the Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the	A complete set of documents including Environmental impact Assessment Report and Environment Management Plan has been forwarded on 21.02.2014 to the Regional Office of MOEFF&CC at Bhubaneswar.  Compliance status is being

SI No	MOEF STIPULATION	STATUS AS ON 30.09.2024
	<p>compliance status in their website and up-date the same from time to time at least six-monthly basis. Criteria pollutants levels including NOx (from stack &amp; ambient air) shall be displayed at the main gate of the power plant.</p>	<p>uploaded in company website on half-yearly basis.</p> <p>Pollutant levels are displayed in Videowall at main gate.</p>
(xv)	<p>Separate funds shall be allocated for implementation of environmental protection measures along with item – wise break –up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the ministry.</p>	<p>The requisite funds for environmental mitigation measures have been included in the project cost. Financial provision stipulated towards environmental mitigate measures shall not be diverted for other purposes.</p>
(xvi)	<p>The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.</p>	<p>It is being complied.</p>
(xvii)	<p>Full cooperation shall be extended to the Scientists/officers from the Ministry / Regional Office of the Ministry/ CPCB /SPCB who would be monitoring the compliance of environmental status.</p>	<p>Full cooperation is being extended to the Scientists / officers from the Ministry / Regional Office of the Ministry at Bhubaneswar/ the CPCB / the SPCB during monitoring of the project.</p>
5.	<p>The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction</p>	<p>Noted.</p>

SI No	MOEF STIPULATION	STATUS AS ON 30.09.2024
	of the Ministry. The Ministry may also impose additional environmental conditions of modify the existing ones, if necessary.	
6.	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant.	Noted.
7.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
8.	In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.	Noted.
9.	The above stipulations would be enforced among others under the water (prevention and Control of pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act,1986 and rules there under, Hazardous Wastes ( Management , Handling & Transboundary Movement) Rules, 2008 and its amendments, the public	Noted.



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**DARLIPALI SUPER THERMAL POWER PROJECT, STAGE-I (2X800 MW)**

<b>SI No</b>	<b>MOEF STIPULATION</b>	<b>STATUS AS ON 30.09.2024</b>
	Liability Insurance Act, 1991 and its amendments.	
10.	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
<b>File No: J-13012/65/2008-IA-II(T) EC Amendment dated 12.02.2019</b>		
i.	The coal linkage is available only for 3.8 MTPA. Copy of the linkage for remaining quantity shall be submitted to Ministry as and when it is granted.	8 MTPA coal is sourced from NTPC captive Dulanga coal mine.
ii	Route No.2 from Dulanga mines to the Power plant site shall not be used at present as it is under widening. The transportation shall be commenced only after widening the road to cater to the proposed transportation. A certificate regarding the completeness and adequacy of the road shall be submitted provided by the PWD or the custodian of the road.	The coal is being transported from Dulanga to Darlipali is through dedicated railway only.
iii	Air quality monitoring shall be carried out at 19 census points indicated in the report along all routes once in quarter.	Coal is not being transported by road on which Air quality monitoring had to be carried out at 19 census points indicated in the report submitted for EC amendment.
iv	Plantation shall be carried out along the road in consultation with State Social Forestry Department.	Coal is not being transported by road on which Air quality monitoring had to be carried out at 19 census points indicated in the report submitted for EC amendment
v	Regular water sprinkling shall	Coal is not being transported by



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**DARLIPALI SUPER THERMAL POWER PROJECT, STAGE-I (2X800 MW)**

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	be done on the unpaved roads during transportation.	road
vi	The detailed progress report of the power plant & railway siding which are under construction and status of installation of FGD shall be submitted to the Ministry as well as Regional Office once in six months.	The FGD for Unit-II is under operation from 01.07.2024 and Unit-I is under trial & Run
<b>File No: J-13012/65/2008-IA-II(T) EC Amendment dated 24.12.2021</b>		
i	24x7 online Continuous monitoring system for ambient air quality parameters SO <sub>x</sub> , NO <sub>x</sub> and PM shall be established with connected server to CPCB and SPCB.	Being Complied