



**एनटीपीसी लिमिटेड**  
(भारत सरकार का उद्यम)

**NTPC Limited**  
(A Govt. of India Enterprise)

दरलिपालि/Darlipali

Ref. No. DSTPP/MOEF /10

Dated: 28.10.2017

To,

**The Director  
Eastern Regional Office  
MOEF ,Govt. Of India, A-3 Chandrasekharpur,  
Bhubaneswar**

Sub-Six monthly progress report for the period April-2017 to Sep-2017

Dear sir

NTPC Ltd. is setting up 2x800 MW (stage-1) supercritical coal based thermal power plant at village Darlipali, in Lephripara Taluk, in Sundargarh Distt., Odisha, which is presently under construction. Environmental clearance was accorded by the Ministry of Environment and Forest on 17<sup>th</sup> February 2014 subject to compliance of specific & general conditions of EC.

With reference to the general condition no. xiii, stipulated by Ministry of Environment & forests (MOEF) vide Environmental Clearance letter dated 17.02.2014 for Darlipali STPP(stage-1), we hereby are submitting six monthly progress report for the period April-2017 to Sep-2017.

Thanking you

With Kind regards

Yours faithfully

  
R C Patnaik 28/10/2017

**GENERAL MANAGER (TS)**  
**राम चन्द्र पटनायक**  
**Ram Chandra Patnaik**  
महाप्रबंधक (तकनीकी सेवाएं)  
General Manager (TS)  
एनटीपीसी लिमिटेड/दरलिपालि एस.टि.पि.पि  
NTPC Ltd., Darlipali S.T.P.P

**Enclosure: Six monthly progress report .**

दरलिपालि सुपर थर्मल पावर प्रोजेक्ट, पोस्ट-दरलिपालि, जिला - सुन्दरगढ़-770072 (ओडिशा), दूरभाष : 06622-262626, फैक्स : 06622-262627  
Darlipali Super Thermal Power Project, At & P.O : Darlipali, Dist- Sundargarh-770072 (Odisha), Tel : 06622-262626, Fax: 06622-262627

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**Corporate Identification No-L40101DL1975G01007966**

**HALF YEARLY ENVIRONMENTAL MONITORING REPORT  
(April 2017 to September 2017)**

**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)-Eastern Zone 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.	Scheme for harnessing solar power within the premises of the plant particularly at available roof tops has been formulated and same will be implemented.
(iii)	Provision for installation of FGD shall be provided for future use.	Adequate space has been provided in the layout for installation of Flue Gas Desulphurization (FGD) system before the chimney for controlling and limiting SO <sub>2</sub> concentration in the flue gas.  However, NTPC is also committed to install FGD system for controlling SO <sub>2</sub> emission within the stipulated standard of 100 mg/Nm <sup>3</sup> under all design conditions and in compliance to the latest MOEF&CC notification dated 07.12.2015 on emission from thermal power plant. Tendering process & award for FGD installation is in progress.
(iv)	Coal transportation to plant site shall be undertaken by rail and no road transportation shall be permitted.	Will be complied during operation phase of the Project.
(v)	Fly ash shall not be used for mine void filling or for agricultural purpose.	Will be complied during operation phase of the Project.
(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	A detailed study on chemical composition of coal used particularly heavy metal and radio activity contents will be carried out through a reputed institute once the project starts receiving the coal and the report will be submitted to the

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	after ascertaining its radioactive level shall fly ash be utilized for brick manufacturing or supplied to brick manufacturers.	concerned Regional Office, MoEF&CC (Eastern Zone) at Bhubaneswar.
(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.	Will be complied during the operation phase of the project.
(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 SOX, NOX, and PM 2.5 & PM10. Mercury emissions from stack may also be monitored on periodic basis.	<p>A bi-flue stack of 275 meters height under construction. Chimney height has already reached 269 m &amp; flu cane erection for unit-1 has been completed. Exit velocity of 22 m/sec will be maintained during operation phase of the project.</p> <p>Continuous online stack monitoring facility for measurement of particulate, SO<sub>2</sub>, NO<sub>x</sub> &amp; Mercury emissions from stack are being provided.</p>
(ix)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm <sup>3</sup> .	<p>The High Efficiency Electrostatic Precipitators (ESPs) are designed with guaranteed efficiency of 99.93 % in order to restrict the particulate emission below 50 mg/Nm<sup>3</sup>.</p> <p>However, NTPC is also committed in compliance to the latest MOEF&amp;CC notification dated 07.12.2015 on emission from thermal power plant.</p>
(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.	<p>Adequate no. of dust suppression and extraction system will be 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.</p> <p>Dry fog dust suppression system is being provided at all transfer points.</p> <p>Also, water sprinklers will also be installed at dust prone sites in order to attenuate fugitive dust emission.</p>
(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	Ash Utilization Plan has been prepared in compliance to fly ash gazette notification dated 03.11.2009 and its subsequent amendments and the same will be

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	of the Ministry from time to time.	<p>implemented during the operation phase of the project.</p> <p>Further, its status of implementation will be also submitted to the Regional Office, MoEF&amp;CC (Eastern Zone) at Bhubaneswar at regular interval.</p>
(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.
(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.	<p>An ash management scheme will be implemented consisting of dry ash extraction system (DAES) for fly ash with storage facility (silos), supply of ash to entrepreneurs for utilization and promoting ash utilization to maximum extent and safe disposal of unused ash.</p> <p>The plant shall have two different systems for ash disposal – conventional wet slurry disposal with ash water re-circulation for bottom ash and High Concentration Slurry Disposal (HCSD) for fly ash.</p> <p>Periodic monitoring for mercury &amp; heavy metals in the bottom ash and water emanating from ash pond will be done during the operation phase of the project.</p> <p>No ash will be disposed off in low lying area.</p>
(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.	<p>To avoid the ground water contamination from bottom ash slurry, one of the bottom ash lagoons is separated by a small temporary bund and the small area will be lined with impervious liner of 300 mm thickness.</p> <p>Soil will be blended with bentonite to achieve the required permeability and same is being taken care.</p> <p>The structure of ash dykes will be designed, constructed and operated as per State of the Art engineering practices for the design and construction of earth dams with adequate factor of Safety. The design of ash dyke shall also take</p>

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		into consideration the seismic parameters.  There is provision of Ash water recirculation pump house for recirculating the ash pond water and utilizing the same for various main plant activities.
(xv)	Sulphur and ash contents in the coal to be use in the project shall not exceed 0.5 % and 34 % respectively at any given 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.	The said stipulation will be complied during operation phase of the project.
(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	The consultancy for Hydrogeological study of the area has been awarded to National Institute of Hydrology, Roorkee.  Water samples have been collected for isotope & water quality analysis. Draft report submitted by agency has been reviewed. Final report to be submitted by NIH Roorkee.
(xvii)	No ground water shall be extracted for use in operation of the power plant even in lean season.	Will be complied during operation phase of the Project.
(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.	Will be complied during operation phase of the Project.
(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.	Will be complied during operation phase of the Project.
(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. Closed cycle cooling system with cooling towers shall be adopted.	Closed cycle cooling system has been designed with maximum COC of 5 for optimization of water requirement.
(xxii)	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and	Adequate nos. of piezometers will be installed for regular monitoring of ground water level in and around ash pond area

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	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.	as per stipulation and report will be submitted to Regional Office of MoEF&CC during the operation phase of the project.
(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 areas will be carried out regularly as per stipulations and reports will be submitted to Regional Office of MoEF&CC (Eastern Zone) at Bhubaneswar during the operation phase of the project. Surface water related data has been collected by NIH Roorkee & final report to be submitted.
(xxiv)	Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB.	An effluent management scheme will be implemented for treating entire waste water. Treated effluent conforming to prescribed statutory standards of SPCB/CPCB will be reused for various industrial purpose to the maximum & if required minimum amount will be discharged through Central Monitoring Basin (CMB). The water system of Darlipali STPP has been designed with Zero Liquid Discharge (ZLD) concept by maximum recycle/reutilization of waste water after treatment.
(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.	Rain water harvesting shall be practiced as per recommendation/stipulations of Central Groundwater Authority/Board.  Action plan for implementation will be submitted to the Regional Office of the Ministry.  Indian Institute of Bio-social Research and Development, Kolkata is appointed to carry out studies on watershed management, agro-forestry and alternate livelihood opportunity for villagers around NTPC Darlipali STPP project site. Final report submitted.
(xxvi)	Additional soil for leveling of the	All the soil & earth material will be



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	proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	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. List of works done and work identified as per request of district administration / local MLA/MP, Sarpanch, villagers etc. is attached herewith <b>(Annexure-I)</b></p> <p>Well-equipped Mobile Health Clinic services by NTPC launched for peripheral villages at scheduled intervals in order to have consultation, medical checkup and distribution of medicines to villagers at free of cost.</p> <p>On regular basis, well equipped Mobile Science Lab with Trained Instructors Visits the village schools and villages to impart practical science education to students and Community Education.</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 in the development of the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	<p>Piped drinking water supply scheme for Darlipali, Raidihi, Ghantimal, Chuabahal, Nagalkata (Sundargarh district), Tileimal, Niktimal, Chichinda, Kechobahal, Chadrama (Jharsuguda district) is being implemented through the respective District Peripheral Development Society. Estimated cost of Rs. 2.99 Cr and Rs. 3.34 Cr respectively.</p> <p>Developmental works as identified by RPDAC, Panchayats, villagers are being taken up in neighboring villages. List of works done and work identified as per request of district administration / local MLA/MP, Sarpanch, villagers etc. is attached herewith. <b>(Annexure-II)</b></p>
(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 Administration. As part of CSR	Various CSR schemes have been implemented and will be continued based on need-based survey in consultation with the village Panchayat and the District Administration.

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	<p>employment of local youth after imparting relevant training as may be necessary shall be undertaken as committed.</p>	<p>Apart from piped water scheme mentioned at (xxviii), 49 additional peripheral development infrastructure schemes as approved by RPDAC is under implementation at an estimated cost of Rs. 8.23 Crores approx. through Sundargarh District Peripheral Development Society.</p> <p>101 infrastructure development projects of estimated value of Rs. 16.10 crores identified by the district administration have been approved by RPDAC for implementation in 2016-17. Out of 16.10 Crore 3.18 Crore has been deposited to SDPDS for various CD activities</p> <p>For technical skill development training to project affected youths, we have imparted skill development training to 103 persons at CIPET, Bhubaneswar.</p> <p>As a continuous process, Projects are being identified in consultation with District administration, local MLA &amp; MP villagers, Sarpanch, etc. to improve the living standard of people in the local area.</p>
(xxx)	<p>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.</p>	<p>Tribals residing in project area have been identified and are being compensated as per existing relevant laws.</p>
(xxxi)	<p>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 road map for implementation.</p>	<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 has been identified in the R&amp;R Plan approved by RPDAC.</p> <p>Stipulated expenditure of Rs. 9.10 crs. Per annum will be spent after COD of the station/project as per this stipulation.</p> <p>Till date Rs. 37.55 crs has been spent/paid to different government agencies (SDPDS/JDPDS) as well as PD works by NTPC against the</p>



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		identified/approved schemes.
(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.	Institutional set up at NTPC's project / Regional HQ/ Corporate Centre is in place for monitoring R&R/CSR activities of Darlipali project. Progress of development works is being monitored by RPDAC through SDPDS / JDPDS. Social audit will be done after completion of 1st phase of 53 schemes approved by RPDAC.
(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.	Around 390 acres of land has been envisaged for the green belt. Green Belt around the Main Plant area except transmission corridor shall be planted. Green Belt around the Township area shall be planted. Extensive Afforestation will be undertaken at all available spaces in and around project, after construction is complete. Ash pond area will be reclaimed with vegetation after abandonment. Avenue Plantation along the Road shall be done.  For green belt development, 18000 saplings has already been planted in township area and plantation of another 25000 saplings in main plant area through Odisha State Forest Development Corporation (OFDC) has been awarded.35000 saplings have been distributed among project affected villages and nearby schools & villages.
(xxxiv)	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.	An Environment Management Group (EMG) shall be set up at Daralipali STPP for Stage-I. The EMG will be responsible for implementing and monitoring the stipulations. EMG shall have sufficient trained manpower and equipment for environmental monitoring and other environmental related activities to ensure compliance with statutory requirements. It will interact regularly with the Odisha State Pollution Control Board (OSPCB). A laboratory at Darlipali STPP will be well equipped for monitoring of ambient air

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		quality, stack emission water/effluent quality, etc.
<b>B. General Conditions</b>		
(i)	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>The project will have an integrated scheme for treatment, re-cycle and re use of effluents and shall operate on a near zero discharge system. Provision is being kept to re-circulate cooling water and ash pond effluent. The cooling tower blow down shall be used fully for ash handling, service water system, coal handling &amp; fire fighting.</p> <p>Provision is being kept for treatment, recirculation &amp; reuse of entire quantity of coal handling plant effluents &amp; service water effluents.</p> <p>The effluent treatment system comprising of neutralization pit for DM plant regeneration waste, oil separator/skimmers 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 are being provided. The effluents will be treated adequately &amp; reused for various industrial purpose and if required minimum amount will be discharged through CMB. The treated effluent will conform to the stipulated regulatory standards.</p>
(ii)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising green belt/plantation.	All domestic sewage emanating from plant and township will be treated in a sewage treatment plant. The treated sewage conforming to prescribed standards shall be utilized for plantation & raising greenbelt to the extent possible. The balance effluent shall be discharged.
(iii)	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.	Hydrant system for covering the entire power station including all the auxiliaries and buildings in the plant area shall be implemented. The system will be complete with piping, hydrants, valves, instrumentation, hoses, nozzles, hose boxes/stations etc. Copy of these measures with full details will be submitted to Regional Office,

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		MoEF&CC (Eastern Zone) at Bhubaneswar after detailed Engineering Completion.
(iv)	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.	Storage facilities for auxiliary liquid fuel LDO are designed conforming to the safety standards and where risk is minimal.  A detailed Disaster Management Plan & Risk assessment including fire and explosion issues will be prepared and will be finalized in consultation with Department of Explosives, Nagpur and regular mock drills shall be conducted as per plan in order to address any eventuality in case of an accident.
(v)	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	All arrangements related to first aid, health & safety and sanitation for workers during construction phase of the project have been kept under the scope of EPC contractor. However, NTPC will ensure effective compliance of the said stipulations. Various measures implemented during construction phase through contractor are:-  Adequate infrastructure facilities, such as sanitation, fuel, restroom, medical facilities, safety, and suitable water supply are being provided at various stages of project construction to the labor colonies housing the work force during construction phase of the project. The sanitary waste from these areas will be accorded suitable treatment. Safety equipment such as earplugs and earmuffs, helmets, face shields, safety goggles etc. is being provided to workers engaged in high risk areas. A first aid center is being established to provide immediate medical aid to the workers and their family members. An ambulance service is available at site to transport injured workers to nearby hospitals.
(vi)	Noise levels emanating from turbines shall be limited to 85 dB (A) from source. For people working in the high noise area, shall be provided. Workers	Design specification for the equipments has been made to comply with the stipulation. Personal

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	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.	protective equipment has been arranged through contractors during construction phase. Periodic examination of workers during operation phase shall be done as stipulated.  The workers of generator halls and other high noise area will be provided with appropriate ear protection devices.
(vii)	Regular monitoring of ambient air ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> & 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 provide 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.	Regular monitoring of AAQ will be done during the operation of the plant. The locations of AAQMS shall be finalized in consultation with OSPCB. AAQMS equipments will be installed at site and the infra- structure requirements for the stations are being established. Data will be submitted to the Regional office of MOEF & CC (Eastern Zone) at Bhubaneswar on regular basis. The data shall also be put up on the website of the company during the operation phase of the project.
(viii)	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.	The same has been kept in contractor's scope. NTPC has constructed labour shed & crèche with required facilities within the site. The major agencies like L&T,TPL, SOMA etc. are also providing adequate infrastructure facilities such as sanitation,restroom,medical facilities, drinking water to work force .
(ix)	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 Pollution Control Board/Committee and may seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	The information of Environmental Clearance was published in Two news papers widely circulated in the region;  On dated: 22.02.14 in "Times of India" (English).  On dated: 23.02.14 in "Samaj" (vernacular language).
(x)	A copy of the clearance letter shall be	A copy of the clearance letter has been

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	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.	also forwarded to the offices of concerned Zila parishad/ Municipal Corporation vide NTPC letter dated 24.02.14 and to the concerned Panchayat vide NTPC letter dated 26.02.14.  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 (PM2.5 & PM10), 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 HYC status report of the stipulated environmental clearance conditions is regularly being submitted to the Regional Office, MoEF&CC (Eastern Zone) at Bhubaneswar. It is also 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> shall be displayed at convenient location near main gate of company and in the public domain during the operational phase of the project.
(xii)	The environment statement for each financial year ending 31st 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 (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.	The Environment Statement for each financial year ending 31st March in prescribed Form-V will be submitted to the Odisha State Pollution Control Board (OSPCB) once the plant becomes operational by the project proponent.
(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	The said stipulation is being regularly complied.  Six monthly EC Compliance report for the period April'2017 to September'2017 is submitted herewith.

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	simultaneously send the same by email to Regional office, Ministry of Environment and Forests.	
(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 compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NO <sub>x</sub> (from stack & ambient air) shall be displayed at the main gate of the power plant.	A complete set of documents including Environmental impact Assessment Report and Environment Management Plan has been forwarded 21.02.2014 to the Regional Office of MOEF&CC (Eastern Zone) at Bhubaneswar.
(xv)	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.	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.
(xvi)	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.	Will be complied during operation phase of the Project.
(xvii)	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.	Full cooperation shall be extended to the Scientists / officers from the Ministry / Regional Office of the Ministry at Bangalore / the CPCB / the SPCB during monitoring of the project.
5.	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions of modify the existing ones, if necessary.	Noted.



<b>SI No</b>	<b>MOEF STIPULATION</b>	<b>STATUS AS ON 30.09.2017</b>
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 Liability Insurance Act, 1991 and its amendments.	Noted.
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.

**Annexure - 1****CD Activities April to September 2017**

<b>SI No</b>	<b>Name of Project</b>	<b>Type of Project</b>	<b>Village</b>
1	Cricket kit for Telenpali GP.	CD Activities in MUW	Telenpali
2	Office furniture and sports kit for club in Telenpali GP.	CD Activities in MUW	Telenpali
3	Office furniture for Raidihi GP.	Welfare Activites	Raidihi
4	Water tanker during festival in Darlipali.	Welfare Activites	Darlipali
5	Construction of kitchen and boundry wall of Darlipali Anganwadi.	Welfare Activites	Darlipali
6	Furniture to Darlipali GP.	Welfare Activites	Darlipali
7	Tent House for Durga Puja at R&R colony.	Welfare Activites	Darlipali
8	Drinking water tank during village Funcation in Raidihi GP.	Welfare Activites	Raidihi
9	Reparing of Tubwell at Raidihi GP .	Welfare Activites	Raidihi
10	Proqurement of fruit bearing sapling for Vill.Darlipali,Raidi,Lusingh.	Welfare Activites	Raidihi
11	Bana Mohotshab at Lochan HS Darlipali .	Welfare Activites	Darlipali
12	Reparing of Road from Bus Stand to Hutupada Darlipali.	Welfare Activites	Darlipali
13	Book Shelves to Aanganwadi Center at R&R Colony.	Welfare Activites	Darlipali
14	Sponsor of National level karate tournament at Sundargarh.	Activities in District	Sundargarh
15	53 nos of LED fixtures in Chandlimal GP.	CD Activities in MUW	Chandlimal
16	6th Batch CIPET to BBSR.	CD Activities in MUW	MUW Vill
17	NTPC Utakrsh Merit Scholarship to 65 Meritorous Students on Independence Day 2017.	Welfare Activites	Project Affected Villages
18	Sweet for School & Anganwadi on Independence Day.	Welfare Activites	Project Affected Villages
19	Felicitation of Shri Hemanta Ku Patel D.N Jr . College.	Welfare Activites	Darliapli
20	Fruit Bearing Sapling distribution to Villagers.	Welfare Activites	Project Affected Villages
21	Road Repair from Darlipali to Borobhagar.	Welfare Activites	Darlipali
22	Intercity Gold Cup Hockey Tournament at Rourkela .	Sport Activities	Rourkela

## **Annexure-II**

### **Education**

- CIPET 6<sup>TH</sup> Batch 20 Students.
- Book Shelves & Weighing Machines to Aanganwadi Centre at R&R Colony
- Construction of Kitchen & Boundary Wall in Aanganwadi Center, Darlipali.
- NTPC Utakrsh Merit Scholarship to 65 Meritorious Students on Independence Day 2017.

### **Health**

- Mobile Health Clinic regular visits in Periphery area.

### **Sports**

- Cricket Kit to Telenpali GP.
- Sponsor of National level karate tournament at Sundargarh.
- Intercity Gold Cup Hockey Tournament at Rourkela.

### **Sanitation**

- Individual Toilets construction in progress at Darlipali & Raidhi Villages for 1894 house.

### **Infrastructure Development**

- Repair of Road from Darlipali to Borobhagar.