



एक महारत्न कम्पनी

एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)

NTPC Limited
(A Govt. of India Enterprise)

कुड़गी / Kudgi

Ref.: NTPC/Kudgi/EMG/2022/145

Dated: 11.05.2022

To,

The Deputy Director General of Forests (C)
Ministry of Environment, Forest and Climate Change (MoEF&CC)
Integrated Regional Office,
Kendriya Sadan, 4th Floor, E & F Wings,
17th Main Road, Ind Block, Koramangla,
Bengaluru - 560 034 (Karnataka)

Sub.: Submission of Half Yearly Compliance Report for Environmental Clearance of NTPC Ltd., Kudgi STPS, Stage-I (3 x 800 MW) - Reg.

Ref.: 1) MoEF&CC Letter No. J 13012/06/2009-IA.II (T) dated 25.01.2012.
2) MoEF&CC Letter No. J 13012/65/2008-IA.II (T) dated 11.08.2020.

Dear Sir,

Please find enclosed herewith, the Half Yearly Compliance Status Report for the period from October, 2021 to March, 2022 in respect of the Environmental Clearance conditions stipulated vide MoEF&CC letter nos. J 13012/06/2009-IA.II (T) dated 25.01.2012 and J 13012/65/2008-IA.II (T) dated 11.08.2020 for NTPC Ltd., Kudgi Super Thermal Power Project, Stage-I (3 x 800 MW) located near village Kudgi, Tq. Basavana Bagewadi, Distt. Vijayapur, Karnataka.

Thanking you.

Yours sincerely,

(Amit More)

Dy. General Manager (EMG)

Encl.: as above.

Copy to:

- 1) The Member Secretary, KSPCB, Bengaluru.
- 2) The Regional Officer, KSPCB, Vijayapur.

कुड़गी सुपर थर्मल पावर स्टेशन, बसवन बागेवाड़ी, बिजापुर-५८६१२१, कर्नाटक दूरभाष: ०८४२६-२००१८३
Kudgi Super Thermal Power Project, Basavana Bagawadi, Bijapur-586 121, Karnataka. Tel.: 08426-200183
रजिस्टर्ड कार्यालय: एनटीपीसी भवन, कोर न. 7, स्कोप कॉम्प्लेक्स, 7 इन्स्टीटूशनल एरिया, लोधी रोड, नई दिल्ली-110 003.
Regd. Office: NTPC Bhawan, Core 7, SCOPE Complex, 7 Institutional Area, Lodhi Road, New Delhi 110 003.

**HALF YEARLY ENVIRONMENTAL MONITORING REPORT
(PERIOD: OCTOBER-2021 TO MARCH-2022)**

*COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
Vide Letter No. J- 13012/06/2009-IA. II (T) Dated 25th January 2012*

S. NO.	STIPULATION	STATUS AS ON 31.03.2022
i	Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.	Vision document has been prepared and submitted to the Regional Office (Southern Zone) MOEF&CC at Bangalore vide letter dated 11.07.2012.
ii	Land and water requirement shall be restricted as per latest CEA norms issued.	Land and water requirement for the project has been optimized and restricted as per the CEA norms.
iii	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 to Regional Office of the Ministry from time to time.	Solar panels having capacity of 1500KW have been installed at available rooftops of FWPH, Switchyard Building, Compressor House, O&M Store, TG Roof, Workshop Roof, Unit-1 IDCT, Railway Siding S&T Building, Fire Station Building in Plant and various Buildings in Township. In addition, 3.37MW of Hybrid Plant comprising of Solar and Wind project is already installed and commissioned.
iv	A study shall be undertaken through a reputed Govt. Organization/ Agriculture University on the impact on vegetation within 10 Km radius of the plant due to fly ash generated and action taken shall be submitted to the Ministry. The study shall be completed within one year of operation of the proposed plant.	The scientific study for assessment of impact on vegetation within 10 Km radius of the plant due to fly ash generated is in progress and submission of report will be complied.
v	A wildlife conservation plan shall be formulated in consultation with the office of the Chief Wildlife Warden and duly vetted by the concerned Chief Wildlife Warden for immediate implementation. The plan shall have an in-built monitoring mechanism.	The Deputy Conservator of Forests, Karnataka Forest Department (KFD), Vijayapur Division vide letter no. B2/DCF/BIP/NTPC/W.L/2013-14 dated 03.02.2014 has communicated that there is no Wildlife Sanctuary, National Park or Protected Area in and around 10 Km radius of Kudgi STPS. In view of the above, no wildlife conservation plan is envisaged.
vi	Provision for installation of FGD shall be provided for future use.	Noted and compliance assured. Provision for installation of FGD was available and installation works of FGD system for

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		controlling SO _x concentration in flue gas are in progress.
vii	Coal transportation to plant site shall be undertaken by rail and no road transportation shall be permitted.	Noted and compliance assured. No coal is being transported by road. Coal transportation to plant site is being undertaken by dedicated railway line for the project.
viii	A detailed study on chemical composition of coal used, particularly heavy metal and radioactive contents shall be carried out through a reputed institute and report shall be submitted to Regional Office of the Ministry. Only after ascertaining its radioactive level shall fly ash be supplied to end user.	In compliance to the said stipulation, a study of heavy metal analysis and radioactivity analysis of coal was carried out through CSIR-NCL & BRIT, Department of Atomic Energy respectively and the reports are submitted along with EC compliance reports dated 13.05.2017 and 19.11.2019.
ix	Fly ash shall not be used for mine void filling or for agricultural purpose.	Is being complied. Fly ash is not being used for mine void filling or for agricultural purposes.
x	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.	The said stipulation will be complied.
xi	A stack of 275 m height with flue gas velocity not less than 22 m/s shall be installed and provided with continuous online monitoring equipment for SO _x , NO _x , PM ₁₀ and PM _{2.5} . Mercury emissions from stack may also be monitored on periodic basis.	<ul style="list-style-type: none"> ▪ A single flue stack for Unit-1 and bi-flue stack for Unit-2 & 3 having chimney height of 275m, is provided. ▪ Continuous Emission Monitoring System for online measurement of SO₂, NO_x, and Particulate Matter (PM) has been provided and the emissions are being monitored. Mercury emissions from stack are also monitored on periodic basis.
xii	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	High Efficiency Electrostatic Precipitators (ESP) designed for achieving guaranteed efficiency of 99.97% have been installed and the emission of Particulate Matter (PM) as per applicable norms is being complied.
xiii	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	Adequate number of dust suppression and extraction systems for control of fugitive emission are being provided in coal handling area including coal stockyard area. Water spray system is provided at

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	and other vulnerable dusty areas shall be provided.	<p>dust prone locations in order to attenuate the fugitive dust emission.</p> <p>Dry Fog Dust Suppression (DFDS) system is provided at all the transfer points.</p> <p>Water sprinkling system has also been provided for enhancing the effectiveness of fugitive dust control measures.</p>
xiv	Utilization of 100% Fly Ash generated shall be made from 4 th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	<p>Ash Utilization Plan has been prepared and all efforts are being made to achieve the targets in compliance to fly ash Gazette Notification dated 03.11.2009 and 31.12.2021.</p> <p>The annual compliance status of ash utilization is being submitted to the Regional Office (SZ), MOEF&CC at Bangalore regularly.</p>
xv	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 will be disposed-off in low lying area.	<p>Ash management scheme is being implemented consisting of Dry Ash Extraction System (DAES) for collection of fly ash with storage facility (silos), supply of ash to entrepreneurs for utilization and promoting ash utilization to maximum possible extent and safe disposal of unused ash in the ash pond.</p> <p>The plant is equipped with two ash disposal systems, [a] conventional wet slurry disposal with ash water re-circulation for bottom ash, and [b] High Concentration Slurry Disposal system (HCSD) for disposal of unused fly ash.</p> <p>Periodic monitoring for mercury & heavy metals in the bottom ash and water emanating from ash pond is being carried out.</p> <p>No ash is disposed-off in the low lying areas.</p>
xvi	Ash pond water shall be re-circulated and utilized.	Ash Water Recirculation System (AWRS) is implemented for re-circulating the ash water from the ash pond area to the plant for its complete re-utilization in the ash handling system.
xvii	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	The ash dyke lagoons where bottom ash slurry is being discharged and Overflow lagoon, are designed and lined with impervious thick liner of 300mm with material like Bentonite blended clay.

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	measures shall also be implemented to protect the ash dyke from getting breached.	<p>The structure of ash dykes is designed, constructed and operated as per <i>state-of-the-art</i> engineering practices for the design and construction of earthen dams with adequate factor of Safety. Seismic parameters have also been taken into consideration while designing of the ash dyke.</p> <p>Regular monitoring and inspection of ash dykes and an emergency response system ensure that there are no risks of failure.</p>
Xviii	Sulphur and ash contents in the coal to be used 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.	<p>Noted and compliance assured.</p> <p>Change in the source of fuel (coal quality) supply will be intimated to the Ministry well in advance.</p>
xix	Hydro-geology 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.	<p>NTPC Kudgi has carried out a Hydrogeological study of the area through National Institute of Hydrogeology (NIH), Roorkee and the study report has been submitted to MoEF&CC vide HYC report dated 02.12.2017.</p> <p>The surface and ground water analysis is being carried out through MoEF&CC approved laboratory and the summary report is enclosed herewith as Annexure-1.</p> <p>Further, a study for review of hydro-geology of the area is in progress.</p>
xx	No ground water shall be extracted for use in operation of the power plant even in lean season.	Noted and compliance assured.
xxi	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.	Noted and compliance assured.
xxii	Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/	Noted and compliance is being ensured.

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	Rivers (as applicable) even in lean season.	
xxiii	COC of 4.0 shall be adopted.	Noted and compliance assured. A closed cycle cooling system has been designed and implemented for achieving minimum 4 Cycles of Concentration (COC) at NTPC Kudgi for conservation/ optimization of water requirement for the project.
xxiv	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.	Monitoring around the ash pond area is being carried out through MoEF&CC approved laboratory, particularly for heavy metals and records are maintained and submitted to Karnataka State Pollution Control Board (KSPCB) and MoEF&CC regularly. Ground water level monitoring has been carried out in and around the main plant and ash pond area by establishing a network of existing wells during the Hydro-geological study carried through M/s National Institute of Hydrology (NIH), Roorkee. A study for reviewing the hydro-geology of the area is in progress.
xxv	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 quality in the area is being carried out through MoEF&CC approved laboratory and the reports are submitted to the Regional Office (SZ) of MOEF&CC and KSPCB. Monitoring for heavy metals in ground water are also being carried out and its record submitted to KSPCB regularly.

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xxvi	Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB/ CPCB.	<p>An effluent management scheme has been designed and is being implemented with the objective to treat the entire wastewater as per the prescribed statutory standards of KSPCB/ CPCB.</p> <p>It is submitted that during normal course of project operation the feasibility of zero discharge has been adopted based on maximum recycle/ reuse of wastewater for various plant usage thereby reducing and optimizing the quantities of water requirement and effluent generation to the extent feasible.</p>
xxvii	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.	Rainwater harvesting measures are being undertaken as per the site conditions.
xxviii	Additional soil for levelling 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 levelling activity of the project site is being done from additional soil generated within the sites only with all necessary precautions to protect natural drainage system of the area.
xxix	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>Activities like road construction & development, providing bus shelters, development of sanitation facilities, drinking water facilities, providing medical equipment to Hospital, 24-hour ambulance facility, providing of tools and equipment to Government ITI, conducting health camps, providing additional infrastructure facilities in schools, distribution of books to students etc. have been carried out in villages near the project.</p> <p>Improvement of infrastructure of primary health centers of four villages & construction of additional class rooms in schools are in progress.</p> <p>All welfare activities under R&R scheme are being carried out in five surrounding</p>

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		<p>villages namely Kudgi, Telgi, Masuti, Golsangi and Muttagi.</p> <ul style="list-style-type: none"> In Golsangi village, new Primary Health Centre (PHC) building has been constructed and handed over to Dept. of Health & Family Welfare, Govt. of Karnataka. Around 38 new classrooms have been constructed in above-mentioned five villages benefitting more than 20 Government Schools. <p><u>During 2019-20:</u></p> <ul style="list-style-type: none"> NTPC Kudgi distributed School Notebooks worth Rs.12 Lakh to about 8000 students in the above-mentioned five villages. <p><u>During 2020-21:</u></p> <ul style="list-style-type: none"> NTPC Kudgi distributed Library furniture worth Rs.4 Lakh for Golasangi RAD School and Madhri Badawne School. <p><u>During 2021-22:</u></p> <ul style="list-style-type: none"> NTPC Kudgi installed 06 nos. Solar High Masts at Project Affected Villages. Extended financial support of Rs.43 Lakh towards COVID Doctors remuneration. Distributed 40,000 notebooks to Project Affected Village School Children.
xxx	<p>A special scheme for upliftment of SC & ST population in the study area shall be formulated and implemented in a time bound manner. The project proponent shall also identify the rights of tribals under existing Laws and ensure its protection and implementation thereof.</p>	<p>Under CSR initiatives, special scheme for upliftment of SC & ST population in the study area is being formulated and implemented in a time bound manner.</p> <p>SC/ ST students from neighboring villages have been extended the special provision of NTPC Utkarsh Scholarship for School toppers of this community. Further, students of SC/ ST community of Govt. ITI, Vijayapur also got benefitted by the sponsorship program extended by NTPC Kudgi.</p> <p>During FY 2020-21, NTPC Kudgi has sponsored 10 students from surrounding project affected villages to Govt. ITI College as part of its skill upgradation program.</p> <p>During 2021-22, NTPC Kudgi considered 34 Meritorious students for Utkarsh</p>

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		Scholarship. Each student was awarded cash prize and a solar lamp.
xxxix	A comprehensive R&R action plan with requisite details such as details of land losers and financial budget for compensation etc. shall be submitted to the Regional Office of Ministry within four months. The R&R action plan shall also include scheme for upliftment of marginalized section who are indirectly affected on account of dependence for their sustenance on the land not owned by them.	<p>A comprehensive R&R action plan with requisite details such as details of land losers and financial budget for compensation etc. has already been prepared and approved in consultation with representatives of PAPs, VDAC and Government of Karnataka. Implementation of the same is in progress.</p> <p>The Final R&R Plan has been submitted to the Regional Office (SZ) of MOEF&CC, Bangalore vide letter dated 16.10.2012.</p>
xxxix	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>Due to the setting up of Kudgi STPS, general facilities in the nearby areas have certainly developed. New opportunities for business and self-employment have been generated thereby increasing the cash flow in business.</p> <p>NTPC is making all efforts for developing infrastructural facilities and implementing various community development activities through;</p> <ul style="list-style-type: none"> • Alternate employment opportunities to PAPs and local people, • Periodic health checkup program for the nearby villagers, • Opportunities to local people to enhance their businesses, • Development of infrastructure facilities viz. improvement in roads, bus shelters, public facilities, solar street lamps, sanitation, toilets, medical, schools, sport facilities etc. are being implemented.
xxxix	CSR schemes 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 employment of local youth after imparting relevant training, as may be necessary shall be undertaken as committed.	<p>Various CSR schemes are being implemented based on need based survey within 5Km and in consultation with the Village Panchayat and the District Administration;</p> <ul style="list-style-type: none"> • Infrastructural development i.e. improvement in roads, electricity, supply of drinking water, sanitation, educational institutions, and transportation facilities etc.

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		<ul style="list-style-type: none"> • Scholarships to students and facilitation for sports, training for self-employment (computer, welding, bar-bending, carpentry, stitching, embroidery) etc. • Training/ financing facilitation for development of rural small scale industries i.e. Bee-keeping, Poultry, Dairy Farming etc. <p>Further, as part of Corporate Social Responsibility, NTPC Kudgi distributed 2000 Nos. of desks to Schools at Dharwad worth Rs.37 Lakh during FY 2020-21.</p> <p>During Covid-19 pandemic in FY 2020-21, NTPC Kudgi committed Rs.15 Lakh to District Administration towards relief material and other essential items for distribution among stranded laborer.</p> <p>In addition, with the support of RIO, Bengaluru, NTPC Kudgi team has extended supporting hands for the distribution of Ration Kits worth of Rs.5 Lakh to needy and vulnerable group of people at Bengaluru.</p>
xxxiv	<p>An amount of Rs.52.80 Crores shall be earmarked as one capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs. 10.60 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>Out of Rs.52.80 Crore earmarked for R&R expenditure, an amount of Rs.50.5 Crore (approx.) have been spent for R&R activities and the remaining is committed by NTPC Kudgi towards activities such as Tools and Equipment to Govt. ITI, Vijayapur, new classrooms for schools, improvement of infrastructure and medical equipment at nearby Primary Health Centers and construction of individual toilets etc. as decided in the Village Development Advisory Committee meeting chaired by Dy. Commissioner, Vijayapur.</p> <p>The condition has been deleted vide MoEF&CC Letter No.J-13012/65/2008-IA.II(T) dated 11.08.2020.</p>
xxxv	<p>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</p>	<p>Need Assessment Survey and Social Audit for community development program for nearby areas of NTPC Kudgi has been carried out through Department of Social Work, Karnataka State Akkamahadevi Women's University, Vijayapur.</p> <p>The said stipulation will be complied regarding implementation of an in-built</p>

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	from time to time. The achievements should be put on Company's website.	monitoring mechanism for the CSR schemes and annual social audit from the reputed Government institute in the region. Need Assessment Survey and Social Impact Evaluation Survey completed through Indian Institute of Corporate Affairs, final report is under review.
xxxvi	Green Belt consisting of 3 tiers of plantations of native species around the plant and 100 m width shall be raised (except in areas not feasible). The density of trees shall not be less than 2500 per ha with survival rate not less than 80%.	Noted and compliance assured. A total tree plantation of more than 3 Lakh is done till date through Karnataka Forest Department. An additional tree plantation of more than 5 Lakh saplings (including maintenance for subsequent 5 years) with an expenditure of Rs.3.5 Crore has been carried out through Karnataka Forest Department (KFD) in the four forest divisions namely Shivamogga, Sagara, Hunsur and Mandya forest divisions in an area of 323 Ha.
xxxvii	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority 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) with qualified team headed by Deputy General Manager (EMG) is functional at Kudgi STPS and is reporting to the Head of the Project.
B. GENERAL CONDITIONS:		
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.	Noted and compliance assured. Treated effluent conforming to standards is being re-circulated and reused within the plant only. An independent plant effluent drainage system is being provided to ensure that plant effluents do not mix with storm water drainage.
ii.	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/ plantation.	Noted and compliance assured. All domestic sewage is treated in STP and treated sewage conforming to prescribed standards is utilized for plantation & raising greenbelt to the extent possible through a treated water network.
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	Noted and compliance assured. Adequate number of fire spray & hydrant system for covering the entire power station including coal yard, all the auxiliaries and buildings in the plant area have been

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	along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	<p>designed and being implemented. The system includes piping system, hydrants, valves, instrumentation, hoses, nozzles, hose boxes/ stations etc.</p> <p>Copy of fire safety measures details for CHP area and fire hydrant system has been submitted to Regional Office (SZ) of MOEF&CC at Bangalore vide HYC report dated 02.12.2017.</p>
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.	<p>Noted and compliance assured.</p> <p>Storage facilities for auxiliary liquid fuel LDO/ HFO are designed conforming to safety standards and where risk is minimal.</p> <p>A detailed Disaster Management Plan is prepared and finalized in consultation with Department of Factories, Boilers, Industrial Safety and Health, Govt. of Karnataka and regular mock drills are being conducted as per plan in order to address any eventuality in case of an accident.</p>
v.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	<p>All arrangements related to first aid, health & safety and sanitation for contract workers during construction phase of the project are kept under the EPC contract and compliance is ensured by NTPC.</p> <p>NTPC Kudgi is in its operation stage and therefore various measures implemented are as follows:</p> <ul style="list-style-type: none"> • Adequate infrastructure facilities, such as sanitation, medical facilities, safety, and suitable water supply are provided. • Safety equipment such as earplugs and earmuffs, helmets, face shields, safety goggles etc. is being provided to personnel engaged in high risk areas. • A First Aid Centre is established to provide immediate medical aid to the workers and their family members. A 24x7 hour ambulance is in service at site to transport injured workers to nearby hospitals.
vi	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB (A) from source. For people working in high noise area, protective	<p>Noted and compliance assured.</p> <p>Equipment are designed as per the specifications for complying with the stipulation. In addition, Personal Protective</p>

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	<p>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>Equipment are also being provided to personnel working in high noise areas.</p> <p>Examination of workers engaged in noisy areas has been conducted as stipulated.</p> <p>The workers of generator halls and other high noise areas are being provided with appropriate ear protection devices.</p>
vii	<p>Regular monitoring of ambient air ground level concentration of SO₂, NO_x, PM_{2.5} & PM₁₀ and Hg shall be carried out in the impact zone and records 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>Four numbers of CAAQM Stations have been provided and locations of these CAAQMS were finalized in consultation with KSPCB.</p> <p>Regular monitoring of ambient air ground level concentration of SO₂, NO_x and PM_{2.5} & PM₁₀ is being carried out through MoEF&CC approved laboratory and records are being maintained.</p> <p>Online data connectivity arrangements for CAAQMS data to CPCB/ KSPCB have been provided. Periodic report along with the monitored AAQ data is being submitted at regular interval to the Regional Office (SZ) of MOEF&CC at Bangalore and the compliance report is being updated on the website of the company.</p>
viii	<p>Provision shall be made for the housing of construction labour (as applicable) 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.</p>	<p>NTPC Kudgi is in its operation stage and therefore necessary facilities such as sanitation facilities, First Aid Center, ambulance, provision of drinking water, canteen etc. have been made for the labour force working within the Plant.</p>
ix	<p>The project proponent shall advertise in at least two local newspapers 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 letters informing that the project has been</p>	<p>The information of Environmental Clearance was published in Two newspapers.</p> <ol style="list-style-type: none"> 1. "Deccan Herald" on 31.01.2012 in English. 2. "Vijaya Karnataka" on 31.01.2012 in vernacular (Kannada) language.

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	<p>accorded environmental clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/ Committee and may also be seen at website of the Ministry of Environment and Forests at http://www.envfor.nic.in.</p>	
x	<p>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.</p>	<p>NTPC vide letter dated 30.01.2012 has forwarded the copy of Environmental Clearance to the Tahsildar, Basavana Bagewadi Taluka.</p> <p>The Environmental Clearance is also uploaded on the NTPC website.</p>
xi	<p>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 pollutants levels namely SPM, RSPM, (PM_{2.5} & PM₁₀), SO₂, NO_x (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.</p>	<p>The latest and updated Half Yearly Compliance (HYC) report of EC conditions is regularly being submitted to the Regional Office (SZ) of MOEF&CC at Bangalore and at the same time also uploaded on the NTPC website as per stipulations. The pollutant levels are also being displayed near the Main Gate of NTPC Kudgi.</p>
xii	<p>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</p>	<p>The Environment Statement for financial year ending 31st March, 2021 (FY 2020-21) in prescribed Form-V has been submitted to KSPCB vide letter dated 23.06.2021. Submission of Environment Statement for FY 2021-22 will also be complied as per regulation.</p>

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	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 implementation of the stipulated environmental safeguards to the Ministry of Environment & 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 e-mail to the Regional Office, Ministry of Environment & Forests.	The half yearly compliance report is being regularly submitted to the concerned statutory authority. The latest six-monthly progress report for the period of October, 2021 to March, 2022 is submitted herewith.
xiv	Regional Office of the Ministry of 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 upload the compliance status in their website and update the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack and 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 along with the additional information/ clarifications as submitted to MOEF&CC have been forwarded on 13.02.2012 to the Regional Office (SZ) of MOEF&CC at Bangalore.
xv	Separate funds should be allocated for implementation of environmental protection measures along with item-wise	The requisite funds for environmental mitigation measures have been included in the project cost. Financial provision stipulated towards environmental mitigation

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	break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	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 the plant.	The Regional Office, KSPCB has been informed regarding commercial power production from Unit-I, II and III vide letters dated 01.08.2017, 30.12.2017 and 14.09.2018 respectively.
xvii	Full cooperation should 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.	Noted and compliance is being ensured.
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 or modify the existing ones, if necessary.	Noted.
6	The environmental clearance accorded shall be valid for a period of 5 years to start of 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 under the provisions of Environmental (Protection) Act, 1986.	Noted.
8	In case of any deviation or alteration in the project proposed including coal transportation	Noted.

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	<p>system from those submitted to this Ministry for clearance, a afresh 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.</p>	
9	<p>The above stipulations would be enforced among others under the Water (Prevention and Control Pollution) Act, 1947, the Air (Prevention and Control of Pollution) Act. 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Trans boundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.</p>	Noted.

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