



एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)

NTPC Limited
(A Govt. of India Enterprise)

कूडगी / KUDGI

Ref: NTPC/Kudgi/EMG/2016/04

Date: 27.10.2016

The Chief Conservator of Forest (Central)
Ministry of Environment, Forest and Climate Change (MoEF & CC)
Regional Office (Southern Zone)
Kendriya Sadan,
4th Floor, E & F Wing,
IInd Block, Koramangla,
BANGLORE-560034

Sub: Submission of Half Yearly Environmental Clearance Compliance Report for Kudgi STPP Stage-I (3X800 MW)-reg.

Ref: MoEF letter ref. no. J-13012/06/2009-IA.II(T), dated 25.01.2012

Dear Sir,

Please find herewith enclosed the Half Yearly Compliance Status Report for the period of April'2016 to September'2016 in respect of the Environment Clearance conditions stipulated vide the above referred MoEF letter for the Kudgi Super Thermal Power Project, Stage-I of 2400 MW (3X800 MW) at village Kudgi, Tq. Basavana Bagewadi, Dist. Bijapur, Karnataka.

Thanking you,

o/c

Yours Sincerely,

(P. LAXMI NARAYANA)

(P. LAXMI NARAYANA)

Additional General Manager (EMG&TAD)

Copy to:-

- 1) The Environmental Officer, KSPCB, Bijapur
- 2) The Senior Environmental Officer, KSPCB, Banagalore
- 3) GM (TS), NTPC, WR1HQ, Mumbai
- 4) ES to ED, Kudgi - for the kind information of ED please

स्वीकृतिसिद्धि
27/10/16
कूडगी
कूडगी - विजयपुर

कूडगी सुपर थर्मल पावर प्रोजेक्ट, पोस्ट : कूडगी, ता: बसवन बागेवाडि, जिल्ला: बिजापुर, कर्नाटक - 586121

Kudgi Super Thermal Power Project, Kudgi (Post), Tk: Basavan Bagewadi Dist : BIJAPUR, Karnataka - 586121

रजिस्टर्ड कार्यालय : एनटीपीसी भवन, कोर सं.-7, स्कोप कॉम्प्लेक्स, 7 इंस्टिट्यूशनल एरिया, लोदी रोड, नई दिल्ली - 110 003

Registered Office : NTPC Bhavan, Core No. 7, SCOPE Complex, 7 Institutional Area, Lodi Road, New Delhi - 110 003.



Kudgi Super Thermal Power Plant
Stage-I (3X800MW)

HALF YEARLY ENVIRONMENTAL MONITORING REPORT

(APRIL 2016 to SEP 2016)

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS

Vide Letter No. J- 13012/06/2009-IA. II (T) Dated 25th January 2012

SLNO	STIPULATION	STATUS as on 30.09.2016
SPECIFIC CONDITIONS:		
i	Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.	A Draft vision document has been prepared & submitted to 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 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 Regional Office of the Ministry from time to time.	Supply & Installation contract for solar roof top systems is in tendering stage. The scheme will be implemented during the operation phase of the project.
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.	A scientific study will be carried out through a reputed Government Organization / Agricultural University as per the stipulation once the plant comes into operation
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.	Deputy Conservator of Forests, Karnataka Forest Department, of Bijapur Division vide letter no B2/DCF/BIP/NTPC/W.L/2013-14 Dated 03.02.2014 has communicated that there are no wild life sanctuaries, national parks or protected areas in and around 10 Km radius of Kudgi Project. In view of the above, no separate wildlife conservation plan has been envisaged.
vi	Provision for installation of FGD shall be provided for future use.	Adequate space has been provided in the layout for installation of FGD. NTPC has initiated an action for installing FGD Plant for controlling

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Stage-I (3X800MW)



SLNO	STIPULATION	STATUS as on 30.09.2016
		SOx emission in compliance to latest MOEF&CC norms for TPP dated 07.12.2015.
vii	Coal transportation to plant site shall be undertaken by rail and no road transportation shall be permitted.	Will be complied during the operation phase of the project.
viii	A detailed study on chemical composition of coal used 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 radioactive level shall fly ash be supplied to end user.	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 its reports will be submitted to RO MOEF&CC.
ix	Fly ash shall not be used for mine void filling or for agricultural purpose.	Fly ash will be not be used for mine void filling or for agricultural purpose.
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.	Will be complied during the operation phase of the project.
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 equipments for SO _x , NO _x PM ₁₀ and PM _{2.5} Mercury emissions from stack may also be monitored on periodic basis.	One twin flue and one single flue steel lined reinforced concrete chimneys of 275 meters height is under construction. Status as on 30.09.2016: Shell-1 for Unit#1 : Civil work and structural flue cane erection work completed and being in use now. Painting work in progress. Shell-2 for Unit#2: Unit#2 flue cane erection completed Unit#3: Flue cane fabrication work completed erection in progress Exit velocity of 22 m/sec will be maintained during operation of the project. Continuous online stack monitoring facility for measurement of particulate, SO ₂ , NO _x Mercury

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SLNO	STIPULATION	STATUS as on 30.09.2016
		emissions from stack is being provided.
xii	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	<p>The High Efficiency Electrostatic Precipitators (ESPs) has been designed for a guaranteed efficiency of 99.97 % and will be installed in order to ensure that the particulate emission shall not exceed 50 mg/Nm³</p> <p>Unit#1: 3 out of 6 passes of ESP are commissioned and commissioning for balance 03 in progress.</p> <p>Unit#2 & #3: Structure works erection in progress.</p>
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 and other vulnerable dusty areas shall be provided.	<p>Dust suppression and extraction systems are under construction in coal handling area including coal stock yard area for control of fugitive dust emissions.</p> <p>Dry fog dust suppression system is being provided at all transfer points.</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 same shall be implemented in compliance to fly ash Gazette Notification dated 03.11.2009.</p> <p>Further its status of implementation will be also submitted to Regional office at regular interval during the operation phase of the project.</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>An ash management scheme will be 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 extent and safe disposal of unused ash in the ash pond.</p> <p>The plant will have two different systems for ash disposal - conventional wet slurry disposal with ash water re-circulation for bottom ash and High Concentration Slurry</p>





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SLNO	STIPULATION	STATUS as on 30.09.2016
		<p>Disposal (HCSD) for fly ash.</p> <p>Periodic monitoring for mercury & heavy metals in the bottom ash and water emanating from ash pond will be done during the operation phase of the project.</p>
xvi	Ash pond water shall be re-circulated and utilized.	AWRS (Ash Water Recirculation System) will be implemented for re-circulating the bottom ash water from the ash pond area to the plant for its reuse 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 measures shall also be implemented to protect the ash dyke from getting breached.	<p>The ash dyke Lagoons where bottom ash slurry is designed to be discharged are designed with impermeable layers to avoid leachate action. Over flow lagoon of ash dyke is also designed with 300MM thick impermeable layer at bottom.</p> <p>Soil will be blended with bentonite to achieve the required permeability in the cutoff trench.</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 into consideration the seismic parameters.</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.	The said stipulation will be complied during the operation phase of the project.
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	The Hydro-geology of the area will be reviewed annually from an institute/ organization of repute to assess impact of surface water and ground regime (especially around ash dyke) and reports of water quality monitored will be submitted to the Regional Office of the Ministry during the



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SLNO	STIPULATION	STATUS as on 30.09.2016
	to the Regional Office of the Ministry.	operation phase of the project. The Baseline Hydrogeology study is in advanced stage of completion.
xx	No ground water shall be extracted for use in operation of the power plant even in lean season.	Will be complied during the operation phase of the project.
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.	Will be complied during the operation phase of the project.
xxii	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 the operation phase of the project.
xxiii	COC of 4.0 shall be adopted.	Water requirement for the Project will be optimized by operating the Closed cycle cooling system with minimum designed COC of 4.0 for conservation/ optimization of water requirement.
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.	Adequate nos. of piezometers will be installed for regular monitoring of ground water level in and around ash pond areas as per stipulation and reports will be submitted to Regional Office of MoEF & CC during the operation phase of the project.
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 areas will be carried out regularly as per stipulations and reports will be submitted to Regional Office of MoEF&CC during the operation phase of the project.
xxvi	Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB/CPCB.	An effluent management scheme will be implemented with the objective to treat the waste water as per the prescribed statutory standards of



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Stage-I (3X800MW)



SLNO	STIPULATION	STATUS as on 30.09.2016
		SPCB/CPCB before final discharge.
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.	Rain water harvesting shall be practiced as per recommendation/stipulations of Central Ground water Authority/Board. A contract has been awarded on M/s Cholamandalam MS Risk Services Ltd, Chennai for Rain Water Harvesting study at Kudgi STPP.
xxviii	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.	Is being complied
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.	Activities like road construction & development, providing bus shelters, development of sanitation facilities, conducting health camps, providing additional infrastructure facilities in schools, distribution of books to students etc. have been carried out in villages near the project. Improvement of infrastructure of primary health centers of four villages & construction of additional class rooms in schools <u>are in progress.</u>
xxx	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.	Under CSR initiatives, special scheme for upliftment of SC & ST population in the study area will be formulated and implemented in a time bound manner.
xxxii	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.	A comprehensive R&R action plan with requisite details such as details of land losers and financial budget for compensation etc. has been already prepared and approved in consultation with representatives of PAPs, VDAC and State Government. The final R&R plan was also submitted to the Regional Office of MOEF&CC vide letter dated 16.10.2012.
xxxii	The project proponent shall also adequately	Due to the launch of the project,



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SLNO	STIPULATION	STATUS as on 30.09.2016
	<p>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>	<p>general facilities in the nearby areas will certainly develop. New opportunity for business and self-employment will be generated and cash flow in business will increase.</p> <p>NTPC will make all its efforts for developing infrastructural facilities and implementing various CD activities;</p> <ul style="list-style-type: none">• Alternate employment opportunities to PAPs and local people• Periodic health check programme for the nearby villages• Opportunities to local peoples to enhance their business.• Development of infrastructure facilities, viz., improvement in roads, bus shelters, public facilities, solar street lamps, sanitation, medical, Schools, Sanitation, sports facilities etc. are being implemented.
xxxiii	<p>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>	<ul style="list-style-type: none">• Various CSR schemes will be implemented based on need based survey in consultation with the village Panchyat and the District Administration.• Infrastructural development i.e improvement in roads, electricity, supply of drinking water, sanitation, educational institutions etc. will be implemented under CSR plan during operation phase.• Scholarships to students and facilitation for sports, Training for self-employment (computer, welding, bar-bending, carpentry, stitching, embroidery) etc are implemented under R&R and will also be undertaken under CSR.• Training / financing facilitation for development of rural small scale industries i.e bee keeping,

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SLNO	STIPULATION	STATUS as on 30.09.2016
		poultry, dairy farming etc will be implemented under CSR plan during operation phase.
xxxiv	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.	Out of Rs.52.80 Crores earmarked for R&R expenditure, an amount of Rs 43.52 Cr. has been spent till 14.10.2016. During the year 2015-16, an amount of Rs.5.82 Cr has been spent. Balance fund Rs 9.38 Cr to be utilized by March.'17
xxxv	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.	Will be complied.
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%.	<ul style="list-style-type: none">• Green Belt around the Main Plant area except transmission corridor shall be planted.• Around 300 acres of land has been envisaged for the green belt development of 100 m width.• 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.• During the year 2014-15, 25,000 saplings were planted.• During the year 2015-16, 30,000 saplings were planted• During the year 2016-17, 24,670 saplings were planted till 30.09.2016.• The total tree plantation till



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SLNO	STIPULATION	STATUS as on 30.09.2016
		date is 79,670.
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) is set up and functional at Kudgi STPP. 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 Karnataka State Pollution Control Board. A laboratory at Kudgi STPP will be well equipped for monitoring of ambient air quality, stack emission, water/effluent quality, etc.
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.	The effluent treatment system comprising of neutralization pit, oil and grease separator, sediment tank, cooling towers etc will be provided. The effluents will be treated adequately and discharged through CMB. The treated effluent will conform to relevant standards, prescribed by regulatory agencies. An independent plant effluent drainage system would be constructed 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.	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.
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	Hydrant system for covering the entire power station including all the auxiliaries and buildings in the plant area is designed to be implemented. The system will be complete with piping, hydrants, valves, instrumentation, hoses, nozzles, hose

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SLNO	STIPULATION	STATUS as on 30.09.2016
	the Ministry,	boxes/stations etc. Copy with full details shall be submitted 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/HFO are designed conforming to the standards. A detailed Disaster Management Plan & Risk assessment including fire and explosion issues will be prepared and 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.	<ul style="list-style-type: none"> • All arrangements related to first aid health & safety and sanitation for contract work during construction phase of the project have been kept under the EPC contract. However, NTPC will effectively compliance of the said stipulation. 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 to the labor colonies housing the work force during construction phase of the project. • 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 established to provide immediate medical aid to the workers and their family members. A 24Hr 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 requisite personal protective	Design specification for the equipments has been made to comply with the stipulation. Personal protective equipment has been arranged through contractors during





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SLNO	STIPULATION	STATUS as on 30.09.2016
	equipments 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.	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 ₂ , NO _x , PM _{2.5} & PM ₁₀ 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.	Regular monitoring of AAQ will be done during the operation of the plant. The four locations of AAQMS are finalized in consultation with KSPCB. Four (4) nos. of AAQMS equipments are already installed and data connectivity arrangements are in progress. Data will be submitted to the Regional office of MOEF&CC on regularly basis.
viii	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.	A labour colony with necessary infrastructure facilities such as housing, sanitation, fuel, medical facilities, safety, and suitable water supply has been provided for construction labour.
ix	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 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	The information of Environmental Clearance was published in Two news papers. 1. "Deccan Herald" on 31.01.2012 in English. 2. "Vijaya Karnataka" on 31.01.2012 in vernacular language.
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	NTPC vide letter dated 30.01.2012 has forwarded the Environmental clearance to the Talsildar, Basavan Bagewadi Taluka.

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SLNO	STIPULATION	STATUS as on 30.09.2016
	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.	The environmental Clearance was also pasted on the NTPC website on 13.02.2012.
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 pollutants levels namely SPM, RSPM, (PM _{2.5} & PM ₁₀), SO ₂ , 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.	Will be complied during operation phase of the project.
xii	The environment statement for each financial year ending 31 st 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.	Will be complied during operation phase of the project.
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. Six monthly progress report for the period of April 2016 to September 2016 is submitted herewith.
xiv	Regional Office of the Ministry of Environment & forests will monitor the implementation of the stipulated conditions. A completed set of documents including Environmental Impact Assessment Report and Environment	A complete set of documents including Environmental impact Assessment Report and Environment Management Plan along with the additional information/clarifications

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SLNO	STIPULATION	STATUS as on 30.09.2016
	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.	submitted to MOEF&CC have been forwarded on 13.02.2012 to the Regional Office of MOEF at Bangalore.
xv	Separate funds should 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 should not be diverted for other purposes 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 the plant.	Will be complied during operation phase of the project.
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.	Full cooperation shall be extended to the Scientists / officers from the Ministry MOEF&CC / Regional Office of the Ministry at Bangalore / the CPCB / the KSPCB 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 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	Noted.

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SLNO	STIPULATION	STATUS as on 30.09.2016
	attract under the provisions of Environmental (Protection) Act, 1986.	
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 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.	Noted.
9.	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.	Noted.

MFA