



एनटीपीसी लिमिटेड
(भारत सरकार का उद्यम)

NTPC Limited
(A Govt. of India Enterprise)

कूडगी / KUDGI

Ref: NTPC/Kudgi/EMG/2017/04

Date: 13.05.2017

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 (3 X 800 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 Oct'2016 to Mar'2017 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,

Yours Sincerely,

(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 (EMG/AU/BE), SRHQ, Hyderabad- for the kind information please
- 4) ES to GGM, Kudgi - for the kind information of GGM please

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 इन्स्टिट्यूशनल 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

(PERIOD: OCT 2016 to MAR 2017)

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 31.03.2017
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 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 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.	The scheme for harnessing solar power within the premises of the plant will be implemented during the operation phase of the project and its status report will be submitted to Regional Office of the Ministry at regular interval.
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 for assessment of impact on vegetation within 10 km radius of the plant due to fly ash generated will be carried out through a reputed Government Organization / Agricultural University once the plant comes into operation and its status report will be submitted as per the stipulation.
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.



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SLNO	STIPULATION	STATUS AS ON 31.03.2017
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 already initiated an action plan for installing FGD Plant for controlling SO _x concentration in flue gas in compliance to latest MOEF&CC emission 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.	No coal will be transported by road. Coal transportation to plant site will be undertaken by dedicated railway line for 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 has been carried out through a reputed institute and reports will be submitted to RO MOEF&CC. Heavy metal analysis report from CSIR-NCL & radioactivity analysis from BRIT, DoAE is enclosed.
ix	Fly ash shall not be used for mine void filling or for agricultural purpose.	Fly ash will be not 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.	The said stipulation 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 equipment's for SO _x , NO _x PM ₁₀ and PM _{2.5} Mercury emissions from stack may also be monitored on periodic basis.	Will be complied during operation phase of the project.
xii	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	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/Nm ³ Unit#1: All the 6 passes of ESP are



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		<p>commissioned.</p> <p>Unit#2: 3 out 6 passes of ESP are commissioned and commissioning for balance 03 in progress</p> <p>Unit#3: Structure works erection in progress.</p> <p>However, NTPC will also make all its efforts in order to comply with the latest emission notification by MOEF&CC for TPP dated 07.12.2015 by enhancing the efficiency of ESPs for controlling Particulate matter (PM) concentration in flue gas.</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>Adequate no. of Dust suppression and extraction systems are under construction in coal handling area including coal stock yard area for control of fugitive dust emissions. Water sprinklers will be also installed at dust prone sites in order to attenuate fugitive dust emission.</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 and its amendments issued thereafter.</p> <p>Further its status of implementation will be also submitted to the Regional office (SZ), MoEF&CC 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 possible 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 Disposal (HCSD) for disposal of unused fly ash.</p> <p>Periodic monitoring for mercury & heavy metals in the bottom ash and water emanating</p>



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		<p>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>
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 complete reutilization 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>To avoid the ground water contamination from bottom ash slurry, The ash dyke Lagoons where bottom ash slurry is to be discharged are designed and lined with impermeable layers. Over flow lagoon of ash dyke is also designed with and lined with impervious thick liner of 300MM at bottom.</p> <p>Ash pond shall be lined with suitable impermeable material like Bentonite blended clay.</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.

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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.	The Baseline Hydrogeology study has been completed and final report is being evaluated by NTPC. Further, during the operation phase of the project 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.
xx	No ground water shall be extracted for use in operation of the power plant even in lean season.	No ground water will be extracted during the operation phase of the power plant.
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.	No water body including natural drainage system of the area has been disturbed due to activities associated with the setting up of the power plant. Moreover, the said stipulation will be also 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.
xxiii	COC of 4.0 shall be adopted.	Closed cycle cooling system has been designed and implemented with minimum Cycle of Concentration (COC) of 4.0 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	Adequate nos. of piezometers will be installed for regular monitoring of ground water level in and around ash pond areas as per stipulation and its reports will be submitted to Regional Office (SZ) of MoEF&CC at Bangalore during the operation phase of the project.

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	adversely affected due to 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 quality in the areas will be carried out as per stipulations and its reports will be submitted at regular interval to Regional Office (SZ) of MoEF&CC at Bangalore during the operation phase of the project. Monitoring for heavy metals in ground water will be also done and its record is maintained during 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 has been designed and is being implemented with the objective to treat the entire waste water as per the prescribed statutory standards of KSPCB/CPCB. It is to be submitted that during normal course of project operation the feasibility of zero discharge shall be adopted based maximum recycle/reuse of waste water for various plant usage thereby reducing and optimizing the quantities of water requirement and effluent generation to the extent feasible.
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 has been practiced as per recommendation/ stipulations of Central Ground Water Authority/Board. Rain Water Harvesting study has been completed at NTPC-Kudgi STPP and its implementation will be taken up.
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	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



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	district administration.	in villages near the project. Improvement of infrastructure of primary health centres of four villages & construction of additional class rooms in schools are in progress. All welfare activities under R & R scheme are being carried out in five surrounding villages namely Kudgi, Telgi, Masuti, Golsangi & Muttagi.
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 (SZ) of MOEF&CC at Bangalore vide letter dated 16.10.2012.
xxxiii	The project proponent shall also adequately contribute in the development of the neighbouring 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.	Due to the launch of the project, general facilities in the nearby areas will be certainly developed. New opportunity for business and self-employment has been generated and cash flow in business is increasing. NTPC will make all its efforts for developing infrastructural facilities and implementing various CD activities; <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.,

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SLNO	STIPULATION	STATUS AS ON 31.03.2017
		improvement in roads, bus shelters, public facilities, solar street lamps, sanitation, toilets, medical, Schools, Sanitation, sports facilities etc. are being implemented
xxxiii	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>During operation phase of the project various CSR schemes will be implemented based on need based survey within 5 Km 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. ▪ 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.
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.	<p>Out of Rs.52.80 Crores earmarked for R&R expenditure, an amount of Rs 49.07 Cr. has been spent till 31.03.2017 During the year 2015-2016, an amount of Rs.5.82 Cr has been spent.</p> <p>Thereafter, an amount of Rs. 10.60 Crores per annum will be earmarked as recurring for CSR activities till the life of the plant and its expense wise details will be submitted to the Ministry.</p>
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.	The said stipulation will be complied during operation phased of the project regarding implementation of an in-built monitoring mechanism for the CSR schemes and annual social audit from the reputed Government institute in the region.
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).	<ul style="list-style-type: none"> ▪ Around 300 acres of land has been envisaged for the green belt development of 100 m width. ▪ Green Belt around the Main Plant area

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	<p>The density of trees shall not be less than 2500 per ha with survival rate not less than 80%.</p>	<p>except transmission corridor is being planted.</p> <ul style="list-style-type: none"> ▪ Green Belt around the Township area is being planted. ▪ Extensive afforestation will be undertaken at all available spaces in and around project, after construction is complete. ▪ Avenue Plantation along the Road shall be done. ▪ Shelterbelt Plantations along the vicinity of ash storage/ disposal sites/ water reservoirs and along boundary walls ▪ Ash pond area will be reclaimed with vegetation after abandonment. ▪ Mostly wherever feasible 100m width maintained. <p><u>Details of Plantation at Project Site:</u></p> <ul style="list-style-type: none"> ▪ 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 date is 79,670. ▪ MOU signed with Vijayapura Forest Division of Karnataka Forest Dept in Sept'16.
xxxvii	<p>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.</p>	<p>An Environment Management Group (EMG) headed by AGM (TAD & EMG) is functional at the Kudgi project site and reporting to HOP through GM (Project).</p> <p>The EMG cell is responsible for monitoring, complying and implementing all project related environmental stipulations / issues / statutory norms.</p> <p>EMG comprises of 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.</p> <p>A laboratory at Kudgi STPP will be well equipped for monitoring of ambient air quality, stack emission, water/effluent quality, etc.</p>



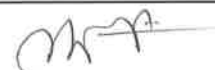
Kudgi Super Thermal Power Plant
Stage-I (3X800MW)

SLNO	STIPULATION	STATUS AS ON 31.03.2017
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.	<p>The feasibility of zero discharge shall be adopted based maximum recycle/reuse of waste water thereby reducing and optimizing the quantities of water requirement and effluent generation to the extent feasible.</p> <p>Provision is being kept to re-circulate cooling water and ash pond effluent. AWRS will be envisaged for re-circulation of entire decanted ash water. Also the entire cooling tower blow down will be re-used for firefighting, CHP & dust suppression system, Plant Service Water System and as makeup to BAHP.</p> <p>An Effluent Treatment System comprising of neutralization pit, oil and grease separator, sediment tank, cooling towers etc is being provided to cater the effluent load emanating from the project. The effluents will be treated adequately in CMB conforming to relevant standards, prescribed by regulatory agencies.</p> <p>An independent plant effluent drainage system would be constructed to ensure that plant effluents do not mix with storm water drainage.</p>
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 the Ministry.	<p>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 boxes/stations etc.</p> <p>Copy these measures with full details shall be submitted after detailed Engineering Completion.</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	<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 & Risk assessment including fire and explosion issues</p>



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Stage-I (3X800MW)

SLNO	STIPULATION	STATUS AS ON 31.03.2017
	Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	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.	<p>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.</p> <p>Various measures implemented during construction phase through contractor are:-</p> <ul style="list-style-type: none"> • 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 centre is established to provide immediate medical aid to the workers and their family members. A 24 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 requisite personal protective 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.	<p>Design specification for the equipment's has been made to comply with the stipulation. Personal protective equipment has been arranged through contractors during construction phase. Periodic examination of workers during operation phase shall be done as stipulated.</p> <p>The workers of generator halls and other high noise area will be provided with appropriate ear protection devices.</p>
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	Regular monitoring of AAQ will be done during the operation of the plant. The four locations of AAQMS are finalized in consultation with KSPCB.



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	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>Four (4) nos. of AAQMS equipment's are already installed and data connectivity arrangements are in progress.</p> <p>Data will be submitted to the Regional office of MOEF&CC on regular basis.</p> <p>The data shall also be put up on the website of the company during the operation phase of the project.</p>
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.	<p>A labour colony with necessary infrastructure facilities such as housing, sanitation, mobile toilet, fuel, medical facilities, safety, drinking water supply etc. has been provided for construction labour.</p> <p>The same has been kept have been kept under the scope of EPC contractor. However, NTPC will ensure effective compliance of the said stipulations.</p>
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	<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 language.
x	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/ 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	<p>NTPC vide letter dated 30.01.2012 has forwarded the Environmental clearance to the Talsildar, Basavan Bagewadi Taluka.</p> <p>The environmental Clearance was also posted on the NTPC website on 13.02.2012.</p>



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Stage-I (3X800MW)

SLNO	STIPULATION	STATUS AS ON 31.03.2017
	company by the proponent.	
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.	The latest 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 which is periodically being replaced with updated HYC report. Online continuous Stack Emission Monitoring System (CSEMS) for the parameters like particulate matter (PM) NO _x , SO ₂ , is being installed. Once the pollution control equipment are in operation the data will be displayed at a convenient location near the main gate of the company in the public domain 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.	The environment statement for each financial year ending 31 st March in Form-V shall be submitted once the plant becomes operational by the project proponent to the Karnataka State Pollution Control Board (KSPCB).
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 Oct'2016 to Mar'2017 is submitted herewith.
xiv	Regional Office of the Ministry of Environment & forests will monitor	A complete set of documents including Environmental impact Assessment Report and



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	the implementation of the stipulated conditions. A completed 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.	Environment Management Plan along with the additional information/clarifications 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 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.



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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 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



