एनटीपीसी NTPC

50 YEARS OF POWERING GROWTH

एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)

कुड़गी / KUDGI

Ref.: NTPC/Kudgi/EMG/2025/ 324

Dated: 24.11.2025

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, IInd Block, Koramangala,
Bengaluru – 560 034 (Karnataka)

Sub.: Submission of Six Monthly 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.
3) MoEF&CC Letter No. J 13012/06/2009-IA.II (T) dated 04.07.2022.

Dear Sir,

Please find enclosed herewith, the Six Monthly Compliance Status Report for the period April 2025 - September 2025 in respect of the Environmental Clearance conditions stipulated vide MoEF&CC letter no. J 13012/06/2009-IA.II (T) dated 25.01.2012 and subsequent amendments dated 11.08.2020 and 04.07.2022 respectively 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 Environmental Officer, Regional Office - KSPCB, Vijayapura.

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(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)

कुड़गी / KUDGI

HALF-YEARLY COMPLIANCE STATUS REPORT

OF

ENVIRONMENT CLEARANCE

(MoEF&CC Letter No. J-13012/06/2009-IA.II(T) Dtd.25.01.2012)
(MoEF&CC Letter No. J-13012/65/2008-IA.II(T) Dtd.11.08.2020)
(MoEF&CC Letter No. J-13012/06/2009-IA.II(T) Dtd.04.07.2022)



SUBMITTED BY

NTPC LTD., KUDGI SUPER THERMAL POWER STATION
STAGE-I (3 X 800 MW)
KUDGI, BASAVANA BAGEWADI (TAL.), VIJAYAPURA (DIST.),
KARNATAKA – 586 121

NOVEMBER - 2025

HALF YEARLY ENVIRONMENTAL MONITORING REPORT

(PERIOD: OCTOBER-2024 TO MARCH-2025)

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
vide Letter Nos. J- 13012/06/2009-IA. II (T) dtd. 25.01.2012, J-13012/65/2008-IA.II(T) dtd.11.08.2020 and J-13012/06/2009-IA.II(T) dtd.04.07.2022.

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
i	Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.	Complied, 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.	Complied, 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.	Complied. The scientific study for assessment of impact on vegetation within 10 Km radius of the plant due to fly ash generated has been conducted through M/s Indian Agricultural Research Institute who is governed by Indian Council of Agricultural Research (ICAR-Govt. of India). Copy of report submitted along with EC compliance report dated 27.05.2023.
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.	Complying. Provision for installation of FGD was available. Installation works of FGD system for controlling SOx concentration in flue gas completed and commissioned at Unit-2 and is in progress at Unit-1 & 3.

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
		As per MoEF&CC notification dated 30.12.2024, the timeline for compliance of SO_2 emission norms is 31.12.2029 for Category-C TPPs.
vii	Coal transportation to plant site shall be undertaken by rail and no road transportation shall be permitted.	Complied. The coal transportation to plant site is being undertaken through railways only.
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.	Complied. In compliance to the said stipulation, 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 were 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.	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 records w.r.t. long term R&D on boiler efficiency and corresponding ash content are being carried out and compiled for all the 3 units. Copy of the data compiled and submitted along with EC compliance report dated 27.05.2023.
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.	Complied. ▪ 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 SO_2, 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 through MoEF&CC approved laboratory.
xii	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm^3.	Complied. 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 and other vulnerable dusty areas shall be provided.	Complied. **Ash Handling Areas:** Dry ash is being pneumatically conveyed from ash hoppers to HCSD ash silos. 04 nos. HCSD silos having capacity of 625MT each are in use for supply of ash to end-users. 04/06 nos. of fly ash (FA) silos having capacity of 1600MT are

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
		constructed and balance are under construction. The ash is being issued to Cement and RMC industries in closed bulkers only through HCSD silos provided with telescopic chutes. Un-utilized ash is disposed to ash dyke through High Concentration Slurry Disposal (HCSD) system through pipelines. **Coal Handling Areas:** Pre-wetting and water sprinkling arrangements are available for control of dust during unloading of coal at Wagon Tippler (WT) area. In addition, fog canons (mist canons) are also provided for mitigating the fugitive emissions in WT area. Closed coal conveyor system has been adopted for internal coal movement. The conveyors and Transfer Points (TPs) are provided with automatic Dry Fog Dust Suppression (DFDS) for controlling the fugitive dust. **Coal Stockyard:** Regular compaction of the coal stored in coal storage area (stockyard) is being carried out with the help of dozers and compactors which minimizes the potential of any fugitive dust. During reserved shutdown (RSD) periods, the stacked coal is covered with tarpaulin to avoid emanation of any fugitive dust. Dust suppression in coal stockyards by means of water spraying is being carried out on regular basis.
xiv	Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Complying. Ash Utilization Plan has been prepared and all efforts are being made to achieve the targets in compliance to fly ash Gazette Notification dated 31.12.2021 and its subsequent amendment dated 30.12.2022. The annual compliance status of ash utilization is being submitted to the Regional Office (SZ), MOEF&CC at Bangalore regularly.

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
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.	Complied. Ash management scheme is 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. Dry ash is being pneumatically conveyed from ash hoppers to HCSD ash silos in dry form for supply to end-users i.e. Cement and RMC industries. Storage facility viz. 04 nos. HCSD silos having capacity of 625MT each are in use for supply of ash to end-users. 04/06 nos. of fly ash (FA) silos having capacity of 1600MT are constructed and balance are under construction. 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. In compliance to the said stipulation, periodic monitoring for mercury & heavy metals in the bottom ash and water emanating from ash pond is being carried out through MoEF&CC approved laboratory, the summary of reports are enclosed herewith as Annex-1. No ash is disposed-off in the low-lying areas.
xvi	Ash pond water shall be re-circulated and utilized.	Complied. 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 measures shall also be implemented to protect the ash dyke from getting breached.	Complied. Suitable impermeable media lining provided in all ash dyke lagoons. The structure of ash dykes is designed, constructed and operated as per State of the Art engineering design and construction with adequate factor of Safety to avert any remote possibility of getting breached. Regular monitoring and inspection of ash dykes and an emergency response system ensure that there are no risks of failure as apprehended.

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
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.	MoEF&CC vide Office memorandum dated 11.11.2020 has modified this condition. The project proponent has to inform regarding change in coal source and quality to the Regional Office of MoEF&CC. Copy of reporting format for change in coal source is enclosed as Annex-2.
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.	Complying. The review of hydrogeology through National Institute of Hydrogeology (NIH), Roorkee done and report submitted vide last HYC report dated 28.11.2024. The surface and ground water analysis are being carried out through MoEF&CC approved laboratory and the summary report is enclosed herewith as Annex-1.
xx	No ground water shall be extracted for use in operation of the power plant even in lean season.	Complying. The water requirement for use in operation of the power plant is drawn from Almatti reservoir for which MoU with KBJNL, GoK dated 27.09.2014 is available for supply of 5.2TMC per annum water requirement.
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.
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.	Not applicable. The raw water is sourced from Almatti reservoir on Krishna river as per the MoU with Krishna Bhagya Jala Nigam Ltd. (KBJNL), Govt. of Karnataka dated 27.09.2014 and water drawl is being done in consultation with KBJNL to comply all applicable conditions. Almatti reservoir is under the administrative control of Govt. of Karnataka.
xxiii	COC of 4.0 shall be adopted.	Complied.
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	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

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
	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.	area by establishing a network of existing wells during the Hydro-geological study carried through M/s National Institute of Hydrology (NIH), Roorkee. The study for reviewing the hydrogeology of the area through National Institute of Hydrogeology (NIH), Roorkee is completed and report submitted vide last HYC report dated 28.11.2024.
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.
xxvi	Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB/ CPCB.	Complying. An effluent management scheme is implemented to treat the entire wastewater as per the prescribed statutory standards. 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.
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.	Facilities for rainwater harvesting along with storage capacity created in Township as per availability of land. Rainwater harvesting structures of approx. 0.25 MCM have been created in Plant & Township for groundwater recharge.
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.	Being complied.

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
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.	Being complied under CSR activities for five project affected villages viz. Kudgi, Masuthi, Telgi, Muttagi and Golsangi. 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 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. Improvement of the infrastructure of primary health centers of four villages & construction of additional classrooms in schools done. All welfare activities under R&R scheme were also carried out in five surrounding villages namely Kudgi, Telgi, Masuti, Golsangi and Muttagi. • *In Golsangi village, new Primary Health Centre (PHC) building constructed and handed over to Dept. of Health & Family Welfare, Govt. of Karnataka.* • *Around 38 new classrooms constructed in above-mentioned five villages benefitting more than 20 Government Schools.* <u>During 2024-25:</u> • *Month long GEM program conducted for 40 girls.* • *Financial Support of Rs.2.50 Lakh provided to five PAVs for conducting total 10 no. of Cultural fairs.* • *Utkarsh Scholarship awarded to 35 meritorious students from 05 Govt. Schools of PAVs.* • *Provided total of 45,000 notebooks to Schools children of PAVs worth Rs.16.21 Lakh.* • *Provided 185 nos. desk bench to schools from PAVs worth Rs.9,99,875/-.* • *Distributed 04 nos. RO water purifier to schools worth Rs.1.96 Lakh.* • *Provided Nutrition support to 150 TB patient in three intervals i.e. total 450 nos. kits were distributed worth Rs.6.87 Lakh.* • *Provided Medical equipment to PHC Kudgi worth Rs.7.15 Lakh.* • *Skill Development/ Upgradation training (Basic Electrician) to 720 nos. of village youth worth Rs.50.40 Lakh.*

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
		• *Skill Development Training to 500 nos. Women from PAVs (Basic Sewing and tailoring training) worth Rs.64.99 Lakh.* • *Financial support of Rs.14.99 Lakh to "Vrukshathon Heritage Run Marathon" organized by District Administration.* <u>During 2025-26:</u> • *Month-long GEM program conducted for 76 girls from neighboring villages.* • *Financial Support of Rs.2.50 Lakh provided five PAVs for conducting total 10 no. of Cultural fairs.* • *Utkarsh Scholarship awarded to 35 meritorious students from 05 Govt. Schools of PAVs.* • *Provided total of 43,000 notebooks to Schools children of PAVs worth Rs.16.77 Lakh.* • *Provided 240 nos. desk-benches to schools from PAVs worth Rs.14.82 Lakh.* • *Providing nutrition support to 330 TB patient and lactating women i.e. total 1,320 nos. kits were distributed worth Rs.19.77 Lakh.* • *Providing Medical equipment to Civil Hospital Vijayapura worth Rs.98.15 Lakh.* • *Residential Skill Development training to 40 nos. of village youth worth Rs.50.40 Lakh through CIPET.* • *Financial support of Rs.14.99 Lakh to "Vrukshathon Heritage Run Marathon" organized by District Administration.* • *Support of Assistive aids to Person with disability of PAV village through ALIMCO worth Rs.30.00 Lakh.* • *Distribution of Sports kit to all PAV schools worth Rs.7.28 Lakh.* • *Installation of Solar Inverter at Sainik School Bijapur worth Rs.30.00 Lakh.*
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 Community Development (CD) initiatives, special scheme for upliftment of SC & ST population in the study area is being formulated and implemented in a time bound manner. Over a period of nine years, around 350 meritorious students (all categories including SC, ST, OBC) from neighboring villages have been awarded with Uttkarsh Scholarship and a solar-lamp. Further, students of SC/ST community of Govt. ITI, Vijayapura also got benefitted by the sponsorship program extended by NTPC.

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
		During FY 2020-21, NTPC sponsored 10 students from surrounding PAVs to Govt. ITI College as part of its skill upgradation program. Identification of the rights of Under tribal – NTPC supported Banjara Community for manufacturing of Banjara Dress items under Self-help group upliftment. During 2022-23: Under CSR, a month-long Girl Empowerment Mission (GEM) program conducted for empowering girls by giving exposure of various activities and training including skills & self-defense to 16 girls from SC and 1 girl from ST from PAVs studying in 6th standard. <u>During 2024-25:</u> • *Under CSR, month-long GEM program conducted for empowering girls by giving exposure of various activities and training including skills & self-defense to 5 girls from SC from PAVs studying in 6th standard.* • *Utkarsh Meritorious Scholarship provided to 11 nos. SC/ST students under CSR scheme.* <u>During 2025-26:</u> • *Under CSR, month-long GEM program conducted for empowering girls by giving exposure of various activities and training including skills & self-defense to 5 girls from SC from PAVs studying in 6th standard.*
xxxi	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 already been prepared and approved in consultation with representatives of PAPs, VDAC and Government of Karnataka. Implementation of the same is in progress. The Final R&R Plan has been submitted to the Regional Office (SZ) of MOEF&CC, Bangalore vide letter dated 16.10.2012.
xxxii	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.	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. NTPC is making all efforts for developing infrastructural facilities and implementing various community development activities through;

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
		• 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 streetlamps, sanitation, toilets, medical, schools, sport 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.	Various CSR schemes are being implemented based on need-based survey within 5Km and in consultation with the Village Panchayat and the District Administration. • 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. Further, as part of Corporate Social Responsibility, NTPC Kudgi distributed 620 Nos. of desks to Schools at Dharwad worth Rs.12.5 Lakh during FY 2020-21. 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. 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. <u>During FY 2024-25:</u> • 185 Nos. Study desks to schools at Kudgi and Telgi village worth Rs.10.00 Lakh were provided. • Provided Nutrition support to 150 TB patients in three intervals i.e., total 450 nos. kits were distributed worth Rs.6.87 Lakh. • Provided Medical equipment to PHC Kudgi worth Rs. 7.15 Lakh.

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
		• Skill Development/ Upgradation training (Basic Electrician) worth Rs. 50.40 Lakh to 720 nos. of village youth. • Skill Development Training worth Rs. 64.99 Lakh to 500 women from PAVs (Basic Sewing and tailoring training). • Shed worth Rs.59,02,541/- constructed for NCC Girl Cadets on the request of District administration. <u>During 2025-26:</u> • Smart Class facilities are proposed to be established in schools of Project Affected Villages (PAVs) to enhance digital education and improve learning outcomes. (worth Rs.45.00 Lakh). • Educational infrastructure will be augmented by providing furniture and essential learning equipment to schools in nearby villages (worth Rs.30.00 Lakh). • Medical aids and appliances will be distributed to promote healthcare among villagers and persons with disabilities (worth Rs.30.00 Lakh). • Distribution of eco-friendly sanitary napkin vending machines and incinerators in nearby schools and communities to promote menstrual hygiene among adolescent girls and women (worth Rs.30.00 Lakh). • Preventive healthcare initiatives including organization of health camps, awareness drives, and distribution of medicines and nutritional supplements in surrounding villages (worth Rs.25.00 Lakh). • Installation of Solar Inverter System at Sainik School, Bijapur to promote renewable energy adoption and sustainable campus practices (worth Rs. 30.00 Lakh). • Promotion of rural and folk art & culture by conducting local cultural events and exhibitions for community engagement (worth Rs.2.50 Lakh). • Support for rural and national level sports activities including training programs and provision of sports equipment to youth (worth Rs.10.00 Lakh). • Implementation of Skill Development/ Upgradation Training through CIPET, providing Plastic Moulding Residential Training to local youth for livelihood enhancement (worth Rs.47.00 Lakh). • Procurement and distribution of notebooks to school students in Project Affected Villages (PAVs) to promote education and

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
		reduce dropout rates (worth Rs.15.00 Lakh).
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.52.95 Crore earmarked for R&R expenditure, an amount of Rs.52.95 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. The condition has been deleted vide MoEF&CC amendment letter no. J-13012/65/2008-IA.II(T) dated 11.08.2020.
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.	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. The said stipulation will be complied regarding implementation of an in-built monitoring mechanism for the CSR schemes and annual social audit from the reputed Government institute in the region. Further, Need Assessment Survey and Social Impact Evaluation Survey was completed through M/s Indian Institute of Corporate Affairs and the Final Report was submitted.
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%.	Being complied. NTPC Kudgi is carrying out greenbelt development (including maintenance for subsequent 4 years) through Karnataka Forest Department in the plant and township, with plantation density not less than 2500 per Ha. and survival rate not less than 90% against the stipulated survival rate of 80%. A total plantation of more than 3.90 Lakh trees done consisting of native plant species in and around the plant and 50m-100m width wherever feasible in an area of approx. 390 acres having survival rate of more than 90%. In addition, afforestation of more than 5 Lakh saplings (including its 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,

S. NO.	STIPULATION	STATUS AS ON 30.09.2025
		Hunsur and Mandya forest divisions in an area of approx. 800 acres. Further, about 20,000, 30,000 & 25,000 saplings have also been planted in degraded Mamadapur reserved forest land during FY 2022-23, 2023-24 & 2024-25, resp. in approx. 432 acres.
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.	Complied.
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 being complied. Treated effluent conforming to standards is being re-cycled and reused within the plant only. An independent plant effluent drainage system is 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 being complied. All domestic sewage is treated in MBBR based Sewage Treatment Plant and entire 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 along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Complied, 540 numbers of fire hydrants provided in the entire power station. 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.
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.	License no. P/HQ/KA/15/2820(P359942) dated 06.11.2015 valid up to 31.12.2029 is available from Department of Explosives, Nagpur for importation and storage of Petroleum Class C in bulk. The sulphur content in the liquid fuel is being complied. A detailed Disaster Management Plan (DMP) 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.

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v.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Noted and compliance assured. A first aid Centre is established to provide immediate medical aid to the workers and a 24-hour ambulance is in service at site for emergent requirements. 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. NTPC Kudgi is in its operation stage and therefore various measures implemented are as follows: • 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.
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 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.	Noted and being complied. Equipment are designed as per the specifications for complying with the stipulation. In addition, Personal Protective Equipment are also being provided to personnel working in high noise areas. Periodic examination of workers engaged in noisy areas has been conducted as stipulated. The workers of generator halls and other high noise areas are being 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.	Four numbers of CAAQM Stations have been provided and locations of these CAAQMS were finalized in consultation with KSPCB. In addition, one of the AAQMS (18^{th} Cross AAQMS) is equipped with meteorological station for monitoring the weather parameters such as wind speed & direction, temperature, rel. humidity, rainfall etc. Regular monitoring of ambient air ground level concentration of SO_2, NOx and $PM_{2.5}$ & PM_{10} is being carried out through MoEF&CC approved laboratory and records are being maintained. 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

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		MOEF&CC at Bangalore and the compliance report is being updated on the website of the company.
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.	NTPC Kudgi is in its operation stage and therefore necessary facilities such as sanitation facilities, First Aid Center, ambulance, provision of drinking water, industrial canteen etc. have been made for the labour force working within the Plant.
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 newspapers. 1. "Deccan Herald" on 31.01.2012 in English. 2. "Vijaya Karnataka" on 31.01.2012 in vernacular (Kannada) 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 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.	NTPC vide letter dated 30.01.2012 has forwarded the copy of Environmental Clearance to the Tahsildar, Basavana Bagewadi Taluka. The Environmental Clearance is also uploaded on the NTPC website.
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	The updated Half Yearly Compliance (HYC) report of EC conditions is regularly being submitted to the Regional Office (SZ) of MOEF&CC at Bangalore and uploaded on the NTPC website also as per the stipulations. The pollutant levels are also being displayed at the Main Gate of NTPC Kudgi.

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	well as stack emissions) shall be displayed at a convenient location near the main gate of the company In the public domain.	
xii	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	The annual Environment Statement for financial year ending 31st March 2025 (FY 2024-25) in prescribed Form-V has been submitted to KSPCB vide letter dated 13.09.2025.
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.	Complied. The half yearly compliance report is being regularly submitted to the concerned statutory authority. The latest and updated six-monthly progress report of EC conditions for the period October 2024 to March 2025 submitted vide letter dated 28.05.2025. The HYC for period April 2025 to September 2025 is being prepared and will be submitted before 01.12.2025.
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.	Complied. 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.

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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. The financial provision stipulated towards environmental mitigation 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 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	Noted.

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	environmental protection measures required, if any.	
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.
Compliance status of conditions stipulated in amendment to Environmental Clearance issued by MoEF&CC vide Letter No. J-13012/65/2008-IA.II(T) dtd.11.08.2020		
1	The undersigned is directed to refer your online application No.IA/OR/THE/105399/2019 dated 14.5.2019, IA/MH/THE/105566/2019 dated 16.5.2019, IA/KA/THE/105615/2019 dated 16.5.2019, IA/MP/THE/105718/2019 dated 17.5.2019 and IA/MH/THE/105652/2019 dated 17.6.2019 regarding amendment of EC conditions pertaining to implementation of Corporate Social Responsibility (CSR) activities.	-
4	The specific condition no. xxxiv of the EC (Kudgi TPP) dated 25.1.2012 is as follows: *"An amount of Rs.52.80 Crores shall be earmarked as one-time capital cost for CSR programme as committed by the project proponent. Subsequently, a recurring expenditure of Rs.10.6 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."*	-
7	It has been noted that you have requested for aligning the conditions w.r.t. CSR activities inline with the Section 135 of the Companies Act, 2013. The proposal was appraised by the EAC (Thermal Power) in its meeting held on 28.5.2019 and the	-

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	EAC recommended to align the existing conditions inline with the Companies Act, 2013. The EAC also recommended to report the amount of 2% on profits to be spent under CSR, and the implementation of activities thereof.	
8	The Ministry has examined the matter. It has been noted that the CSR is in the domain of Ministry of Corporate Affairs under Companies Act, 2013. The stipulation of conditions pertaining to CSR by MoEF&CC will create ambiguity in multiple reporting and duplication.	-
9	In view of the above, **the Ministry hereby deletes the above-mentioned conditions related to CSR in the Environmental Clearance *dated 17.2.2014, 27.12.2010, 25.1.2012, 22.3.2013 and 30.12.2010 with immediate effect.***	Noted w.r.t. condition no. xxxiv stipulated vide Environmental clearance dated 25.01.2012 for Kudgi STPP.
10	All other conditions mentioned in this Ministry's letter no.J-13012/65/2008-IA.II(T) dated 17.2.2014, J-13012/95/2008-IA.II(T) dated 27.12.2010, J-13012/06/2009-IA.II(T) dated 25.1.2012, J-13012/125/2009-IA.II(T) dated 22.3.2013, and J-13012/65/2009-IA.II(T) dated 30.12.2010, shall remain the same, as applicable.	Noted and compliance is being ensured.
Compliance status of conditions stipulated in amendment to Environmental Clearance issued by MoEF&CC vide Letter No. J-13012/06/2009-IA.II(T) dtd.04.07.2022.		
(i)	Increase plantation area to 33% in periphery of the plant boundary.	A total plantation of more than 3.90 Lakh consisting of 3 tiers is done with native species of plants in and around the plant in an area of more than 390 acres as stipulated vide initial EC dated 25.12.2012 having survival rate of more than 90%. Since, the condition of 33% plantation area was not stipulated in the initial EC dated 25.12.2012, space has now been earmarked to increase plantation area to fulfill the shortfall in phased manner and action has been initiated. NTPC Kudgi has also pro-actively taken up massive afforestation through KFD in forest land in four forest divisions i.e. Sagar, Hunsur, Mandya and Shivamogga by planting more

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		than 5 Lakh saplings in an area of approx. 800 acres during FY 2016-17. In addition, NTPC Kudgi has planted about 20,000, 30,000 & 25,000 saplings during FY 2022-23, 2023-24 & 2024-25, resp. in degraded Mamadapur reserved forest land in approx. 432 acres with subsequent four-year maintenance.
(ii)	Improve the soil quality in consultation with reputed institute so that plants can survive in the region.	Greenbelt development/ afforestation activities at NTPC Kudgi are being carried out through Karnataka Forest Department (KFD), Govt. of Karnataka, who are considered to be the experts in afforestation works. KFD has managed to maintain the survival percentage of plantation above 90% against 80% which is stipulated vide condition no. xxxvi of EC dated 25.01.2012, by adopting various measures including improvement of soil quality.
(iii)	Three row plantation along the boundary of 390 acres of land proposed to be diverted for development of Industrial Park. The plantation work will be completed prior to diversion of land.	Noted and compliance will be ensured.
(iv)	24X7 online Continuous monitoring system for ambient air quality parameters SOx, NOx and PM shall be established with connected server to CPCB and SPCB.	Noted and compliance will be ensured.
(v)	Other conditions of the EC letter dated 25.01.2012 shall remain unchanged.	Noted and compliance is being ensured.
5	All other terms and conditions stipulated in the environmental clearance dated 25th January, 2012 and its amendment dated 11th August, 2020 shall remain unchanged.	Noted and compliance is being ensured.

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ANNEX-1

Abstract of Ambient Air Quality in and around NTPC Kudgi
(Period Apr-2025 - Sep-2025)

Location		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)	CO (mg/m^3)	Ozone ($\mu g/m^3$)	Pb ($\mu g/m^3$)	NH_3 ($\mu g/m^3$)	C_6H_6 ($\mu g/m^3$)	B(a)P (ng/m^3)	As (ng/m^3)	Ni (ng/m^3)
Kudgi Village	Min.	44.8	23.8	7.3	14.2	0.5	12.6	<0.01	<20	<0.5	<0.5	<0.5	<5.0
	Max.	49.4	28.6	10.3	19.6	0.6	26.7	<0.01	<20	<0.5	<0.5	<0.5	<5.0
	Avg.	46.7	26.2	9.0	16.7	0.6	21.2	-	-	-	-	-	-
Near Ash pond	Min.	45.9	24.5	6.5	15.2	0.5	18.7	<0.01	<20	<0.5	<0.5	<0.5	<5.0
	Max.	53.3	29.4	10.8	18.9	0.7	24.1	<0.01	<20	<0.5	<0.5	<0.5	<5.0
	Avg.	48.7	27.3	8.2	17.0	0.6	21.7	-	-	-	-	-	-
Telgi Village	Min.	40.6	17.6	6.1	11.9	0.5	9.8	<0.01	<20	<0.5	<0.5	<0.5	<5.0
	Max.	49.2	24.3	9.1	15.4	0.9	14.9	<0.01	<20	<0.5	<0.5	<0.5	<5.0
	Avg.	44.5	21.3	7.5	13.9	0.8	11.6	-	-	-	-	-	-
Coal Handling Plant	Min.	51.2	25.8	8.3	13.7	0.5	20.2	<0.01	<20	<0.5	<0.5	<0.5	<5.0
	Max.	59.1	31.3	9.9	19.7	0.6	26.8	<0.01	<20	<0.5	<0.5	<0.5	<5.0
	Avg.	54.5	28.7	9.3	16.5	0.5	23.8	-	-	-	-	-	-
Muttagi Village	Min.	46.6	20.5	8.1	16.8	0.6	14.5	<0.01	<20	<0.5	<0.5	<0.5	<5.0
	Max.	50.2	29.4	11.3	19.6	0.8	17.4	<0.01	<20	<0.5	<0.5	<0.5	<5.0
	Avg.	48.3	24.2	9.4	18.7	0.7	16.2	-	-	-	-	-	-
NAAQM Limits	-	100	60	80	80	2.0	100	1.0	400	5.0	1.0	6.0	20

Abstract of Unit-wise Stack Emission Values of NTPC Kudgi (Period Apr-2025 - Sep-2025)

Parameters	Stack of	Unit-wise Stack Emission Values			Norms
		Minimum	Maximum	Average	
Particulate Matter (PM)	Unit-1	14.7	29.9	22.7	30
	Unit-2	6.3	23.8	11.1	
	Unit-3	16.2	29.0	25.3	
Sulphur Dioxide (SO2)	Unit-1	1128	1287	1228	200*
	Unit-2	25	1206	322	100*
	Unit-3	1172	1376	1253	
Oxides of Nitrogen (NOx)	Unit-1	404	445	431	450*
	Unit-2	393	469	439	100#
	Unit-3	424	497	455	

Note: *All values in mg/Nm^3.*

** Norms are applicable from 31.12.2024 for NOx emissions and 31.12.2029 for SO_2 emissions as per MoEF&CC Noitification dated 05.09.2022 & 30.12.2024 respectively.*

 # The matter is sub-judice at Hon'ble Supreme Court of India. As per the direction of Hon'ble Supreme Court, a Committee of EPCA(CAQM), CPCB, MoEF&CC and MoP is deliberating on the issue.

Abstract of Ambient Noise Levels in and around NTPC Kudgi (Period Apr-2025 - Sep-2025)

Parameters	Unit	Station Ambient Noise Levels			Standards [dB(A)]
		Minimum	Maximum	Average	
Industrial					
Day	[dB(A)]	61.8	74.9	70.7	75
Night	[dB(A)]	57.6	68.4	63.3	70
Residential					
Day	[dB(A)]	42.7	47.3	45.1	55
Night	[dB(A)]	34.1	38.5	35.9	45
Silence					
Day	[dB(A)]	46.6	47.3	45.1	50
Night	[dB(A)]	35.5	39.6	37.8	40

ANNEX-1 *(Contd..)*

Abstract of Treated Effluent (Main Plant) Analysis (Period Apr-2025 - Sep-2025)

Parameters	Unit	Treated Effluent (Main Plant)			Standards
		Minimum	Maximum	Average	
pH at 25°C	-	8.2	8.5	8.3	5.5 - 9
Temperature	°C	3.2	4.6	4.3	-
Colour	Hazen	Colorless	Colorless	-	-
Odour	-	Agreeable	Agreeable	-	-
Conductivity at 25 °C	µS/cm	752.4	1194.3	1040.7	-
Total Dissolved Solids	mg/l	752.0	1185.5	898.4	-
Total Suspended Solids	mg/l	34.2	47.1	37.9	100
Oil & Grease	mg/l	<4.0	<4.0	-	10
Phenolic Compound as as C_6H_5OH	mg/l	<1.0	<1.0	-	1.0
Biochemical Oxygen Demand at 27 °C for 3 days	mg/l	5.8	10.0	7.4	30
Chemical Oxygen demand	mg/l	26.0	48.6	31.4	250
Chloride as Cl-	mg/l	130.8	236.7	152.2	-
Sulphate as SO_4	mg/l	120.2	178.4	132.6	-
Zinc as Zn	mg/l	0.03	0.06	0.04	5.0
Fluoride as F	mg/l	0.47	0.71	0.61	2.0
Bio-assay test	-	90% survival	90% survival	-	90% survival of fish after 96 hours in 100% effluent.
Sodium Absorption Ratio	mg/l	1.2	4.1	2.2	-
Residual Sodium Carbonate	mg/l	1.4	3.8	2.0	-
Free Residual Chlorine	mg/l	<0.1	<0.1	-	1.0
Dissolved Phosphate as P	mg/l	1.3	4.2	2.2	5.0
Total Chromium as Cr	mg/l	<0.002	<0.002	-	2.0
Dissolved Oxygen as O_2	mg/l	4.4	8.7	5.9	-
Total Copper as Cu	mg/l	<0.03	<0.03	-	3.0
Total Iron as Fe	mg/l	<0.01	<0.01	-	3.0
Mercury as Hg	mg/l	<0.0005	<0.0005	-	0.01
Cadmium as Cd	mg/l	<0.002	<0.002	-	0.1
Lead as Pb	mg/l	<0.002	<0.002	-	0.1
Arsenic as As	mg/l	<0.005	<0.005	-	0.2
Total Nitrogen	mg/l	5.1	69.4	56.7	-
Total Phosphate	mg/l	3.4	4.6	3.9	-
Ammoniacal Nitrogen	mg/l	5.4	13.6	7.4	50
Sulphide	mg/l	<0.1	<0.1	-	2.0
Faecal Coliform	MPN/100ml	30	80	58.3	-

ANNEX-1 *(Contd..)*

Abstract of Ash Pond Effluent Analysis (Period Apr-2025 - Sep-2025)

Parameters	Unit	Ash Pond Effluent			Standards
		Minimum	Maximum	Average	
pH at 25 °C	-	8.26	8.51	8.35	6.5 - 8.5
Oil & Grease	mg/l	<4.0	<4.0	-	20
Total Suspended Solids	mg/l	23.65	28.52	26.32	100
Temperature	°C	21.5	29.3	25.2	-
Conductivity at 25 °C	µS/cm	874.12	1391.72	1295.85	-
Total Dissolved Solids	mg/l	878.00	1365.82	963.30	-
Dissolved Phosphate as P	mg/l	<0.6	<0.6	-	-
Chloride as Cl-	mg/l	150.41	356.92	187.45	-
Sulphate as SO_4	mg/l	130.82	136.43	133.13	-
Mercury	mg/l	<0.0005	<0.0005	-	-
Arsenic	mg/l	0.025	0.051	0.035	-
Chromium	mg/l	<0.002	<0.002	-	-
Lead	mg/l	<0.002	<0.002	-	-

Abstract of Treated STP Effluent Analysis (Period Apr-2025 - Sep-2025)

Parameters	Unit	STP Treated Effluent			Standards
		Minimum	Maximum	Average	
pH at 25 °C	-	7.5	7.9	7.7	6.5 - 9.0
Temperature	°C	4.2	28.5	22.5	-
Total Suspended Solids	mg/l	15.3	20.1	17.8	<20
Oil & Grease	µS/cm	<1.0	<1.0	-	-
Ammoniacal Nitrogen as N	mg/l	0.56	0.73	0.66	5
Biochemical Oxygen Demand at 27 °C for 3 days	mg/l	5.2	7.2	6.2	<10
Chemical Oxygen demand	mg/l	19.0	39.2	27.2	50
Sulphide as S_2-	mg/l	<0.01	<0.01	-	-
Phenolic Compound as C_6H_5OH	mg/l	<1.0	<1.0	-	-
Total Dissolved Solids	mg/l	106.0	437.0	220.6	-
Conductivity at 25 °C	mg/l	172.5	683.5	343.9	-
Total Nitrogen as N	mg/l	10.1	13.8	11.8	-
Phosphate as P	mg/l	0.52	0.72	0.61	-
Sulphate as SO_4	mg/l	23.8	82.3	43.9	-
Chloride as Cl-	mg/l	36.0	72.0	48.6	-
Faecal Coliform	MPN/100ml	21	27	23.3	<100

ANNEX-1 *(Contd..)*

Abstract of Surface Water Quality
(Period Apr-2025 - Sep-2025)

Parameters	Unit	Surface Water			Standards
		Minimum	Maximum	Average	
pH at 25C	-	7.3	7.6	7.4	6.5-8.5
Temperature	oC	24.9	29.2	27.5	-
Colour	Hazen	3.0	5.7	3.9	Max 300
Odour	-	Unobjectionable	Unobjectionable	-	-
Conductivity at 25oC	µS/cm	371.5	407.2	389.3	-
Turbidity	NTU	<1.0	<1.0	-	-
Total Dissolved Solids	mg/l	237.0	260.0	249.7	Max 1500
Nitrate Nitrogen	mg/l	6.2	10.6	8.3	50
Nitrite Nitrogen	mg/l	<0.01	<0.01	-	-
Calcium as Ca	mg/l	30.8	39.5	36.7	-
Magnesium as Mg	mg/l	5.1	19.6	12.3	-
Biochemical Oxygen Demand at 27oC for 3 days	mg/l	<2.0	<2.0	-	Max 3
Chemical Oxygen Demand	mg/l	<4.0	<4.0	-	-
Chloride as Cl-	mg/l	30.2	39.6	34.3	Max 600
Sulphate as SO4	mg/l	5.3	49.5	25.5	Max 400
Zinc as Zn	mg/l	<0.01	<0.01	-	Max 15
Fluoride as F	mg/l	0.49	0.79	0.67	Max 1.5
Ammoniacal Nitrogen as N	mg/l	<0.1	<0.1	-	-
Sodium as Na	mg/l	18.8	26.5	21.5	-
Potassium as K	mg/l	<1.0	<1.0	-	-
Carbonate Alkalinity as CaCO3	mg/l	Nil	Nil	-	-
Bicarbonate Alkalinity as CaCO3	mg/l	130.8	148.8	139.6	-
Total Phosphate as P	mg/l	<0.6	<0.6	-	-
Total Chromium as Cr	mg/l	<0.002	<0.002	-	Max 0.05
Dissolved Oxygen as O2	mg/l	4.7	9.4	6.5	Min 4
Total Copper as Cu	mg/l	<0.01	<0.01	-	Max 1.5
Total Iron as Fe	mg/l	<0.01	<0.01	-	Max 50
Mercury as Hg	mg/l	<0.0005	<0.0005	-	-
Cadmium as Cd	mg/l	<0.002	<0.002	-	Max 0.01
Lead as Pb	mg/l	<0.002	<0.002	-	Max 0.1
Nickel as Ni	mg/l	<0.002	<0.002	-	-
Arsenic as As	mg/l	<0.005	<0.005	-	Max 0.2
Boron as B	mg/l	0.027	0.064	0.040	-
Total Coliforms	MPN/100 ml	Absent	Absent	-	Max 5000
Faecal Coliforms	MPN/100 ml	<2	<2	-	-

ANNEX-1 *(Contd..)*

Abstract of Ground Water Quality
(Period Apr-2025 - Sep-2025)

Parameters	Unit	Ground Water			Standards
		Minimum	Maximum	Average	
pH at 25C	-	7.1	7.6	7.3	6.5-8.5
Temperature	oC	21.6	32.6	26.2	-
Colour	Hazen	<1.0	6.3	4.8	5
Odour	-	Agreeable	Agreeable	-	Agreeable
Conductivity at 25oC	µS/cm	751.7	789.2	774.5	-
Total Dissolved Solids	mg/l	481	509	496	500
Nitrate Nitrogen	mg/l	4.0	9.1	6.5	45
Nitrite Nitrogen	mg/l	<0.02	<0.02	-	-
Chemical Oxygen demand	mg/l	<4.0	<4.0	-	-
Sodium as Na	mg/l	23.4	42.9	34.3	-
Potassium as K	mg/l	<1.0	12.9	9.1	-
Calcium as Ca	mg/l	20.5	59.8	34.7	75
Magnesium as Mg	mg/l	6.1	26.7	19.6	30
Carbonate Alkalinity as CaCO3	mg/l	Nil	Nil	-	-
Bicarbonate Alkalinity as CaCO3	mg/l	159.2	239.6	187.4	-
Chloride as Cl-	mg/l	42.0	139.8	106.0	250
Sulphate as SO4	mg/l	16.4	49.2	30.8	200
Percent Sodium	mg/l	25.0	41.3	35.1	-
Sodium Absorption Ratio	mg/l	0.56	2.06	1.05	-
Fluoride as F	mg/l	0.02	0.53	0.26	1
Boron as B	mg/l	<0.01	<0.01	-	0.7
Mercury as Hg	mg/l	<0.0005	<0.0005	-	0.001
Cadmium as Cd	mg/l	<0.002	<0.002	-	0.003
Lead as Pb	mg/l	<0.002	<0.002	-	0.01
Arsenic as As	mg/l	<0.005	<0.005	-	0.01
Zinc as Zn	mg/l	<0.01	<0.01	-	5
Chromium as Cr	mg/l	<0.002	<0.002	-	0.05
Nickel as Ni	mg/l	<0.002	<0.002	-	0.02
Iron as Fe	mg/l	<0.01	0.04	-	1
Total Coliform	MPN/100ml	Absent	Absent	-	Shall not be detectable in any 100ml sample
Faecal Coliform	MPN/100ml	<2	<2	-	-

ANNEX-2

Reporting Format for Change in Coal Source

Kudgi Super Thermal Power Station, Stage-I, Capacity: 2400 MW (3x800MW)

EC Letter No. J-13012/06/2009-IA.II(T) Dtd.25.12.2012
EC Amendment Letter No. J-13012/65/2008-IA.II(T) Dtd.11.08.2020
EC Amendment Letter No. J-13012/06/2009-IA.II(T) Dtd.04.07.2022

Compliance Reporting Period: April 2025 – September 2025

S. No.	Description	Details of Coal Source (as per EC)	Details of Coal Source (as per FSA)	Change in Coal Source, if any
(1)	(2)	(3)	(4)	(5)
1	Coal linkage source (Coalfield/ Coal mine)	Pakri Barwadih Coal Block	(i) SCCL: Kothegudam, Bellampally, Ramagundam (ii) WCL: Gauri Central (iii) MCL Mines	FSA with SCCL on 19.06.2023, WCL & MCL on 06.06.2024
2	Annual Contracted Quantity (MMT)	12	(i) SCCL: 6.75 MMTA (ii) WCL: 3.18 MMTA (iii) MCL: 3.75 MMTA	
3	Distance of coal source from the Plant (Km.)	2020	(i) SCCL: 800 Km (ii) WCL: 1640 Km (iii) MCL: 2880 Km	-
4	Mode of Transportation (Rail/Road/Others)	Rail	(i) SCCL: Rail (ii) WCL: Rail (iii) MCL: Rail / Rail-Sea-Rail (RSR)	-
5	Total quantity of Domestic Coal received during the period (MMT)	-	2.97	-
6	**Average coal quality of domestic coal consumed during the period**			
a	*Ash Content (%)*	34	43.05	-
b	*Sulphur (%)*	0.5	0.63	-
c	*Moisture (%)*	-	13.25	-
d	*Calorific value (kcal/kg)*	-	3108	-
7	**% blending of imported coal if any and average coal quality of imported coal consumed**			
a	*Ash Content (%)*	-	NA	NA
b	*Sulphur (%)*	-	NA	
c	*Moisture (%)*	-	NA	
d	*Calorific value (kcal/kg)*	-	NA	

Note: In case of there is no change in linkage/ FSA source, column (5) may be filled as: “No change”.

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