SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE (EC)

for 1980 (3x660) MW KATNI THERMAL POWER PLANT

At

Bujbuja & Dokariya Village, Barhai & Vijayraghavgarh Tehsil, Katni District, Madhya Pradesh

Submitted to:

Western Regional Office
Ministry of Environment & Forests & Climate Change
Central Pollution Control Board, New Delhi &
Madhya Pradesh Pollution Control Board, Bhopal



Submitted by:

Environment Management Department
Katni Thermal Energy (MP) Limited
Bujbuja & Dokariya Village,
Barhai & Vijayraghavgarh Tehsil,
Katni District, Madhya Pradesh

PERIOD: October'2020 - March'2021

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Introduction:

Katni Thermal Energy (MP) Ltd. - KTE(MP)L (formerly known as Welspun Energy Madhya Pradesh Ltd.) a subsidiary of Adani Infra (India) Limited, is developing 1980 (3x660) MW Coal-based Ultra Supercritical Thermal Power Plant at village Bujbuja and Dokariya, in Barhi and Vijayaraghavgarh Taluka, District Katni, Madhya Pradesh. The Power Project is based on Supercritical, energy efficient & environment friendly technology.

Katni Thermal Energy (MP) Ltd. has been granted Environment Clearance & Consent to Establish from MoEF&CC vide letter no. J-13012/98/2010-IA.II (T) dated 01.06.2012 and Madhya Pradesh Pollution Control Board vide letter dated 21.02.2013 respectively. KTE(MP)L also obtained all necessary statutory / mandatory clearance respectively. Land is already in possession of the company.

The total requirement of land for the power project is around 1200 Acre. Coal requirement estimated at 7.8 MTPA Imported Coal will be made available for generating Power. Coal from Indonesia will be brought to Haldia / Paradip or Dhamra Port, from where in will be transported to site.

Water requirement will be 5800 m³/hr which will be drawn from the Banasagar Dam which is located at a distance of about 10 km from project site. Water will be brought to the site through a dedicated pipeline.

The Thermal Power Project pre-construction activities completed. KTE(MP)L has completed infrastructure development and enabling works for the Power Plant, such as: Boundary wall, stores, office, & Transmission line ROW/ROU, etc.

KTE(MP)L has completed infrastructure development and enabling works for the Power Plant, such as: Boundary wall, stores, office, & Transmission line ROW/ROU, Power Project pre-construction activities etc.

KTE(MP) has also been granted Extension in Validity of EC. MoEF&CC vide letter dated 05.11.2019.

Compliance status on Environment Clearance For 3x660 MW Katni Thermal Power Project

Vide Environmental Clearance Letter No. J13012/98/2010-IA.II (T), dated-1/06/2012 and 05.11.2019

Sr. No.	Stipulated Clearance Conditions	Compliance status
A. S	pecific Conditions	,
(i)	Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional office of the Ministry within six months.	Complied. Vision document is already submitted.
(ii)	Scheme for implementation for harnessing solar power within the premises of the plant particularly at available roof tops shall be Formulated and status of implementation shall be submitted to the Regional Office of the Ministry from time to time.	Noted. Feasibility for harnessing Solar power will be explored and accordingly action plan will be made for implementation.
(iii)	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.	Noted. Compliance assured, once the project takes off.
(iv)	In case source of fuel supply is to be changed at a later stage (now proposed imported coal from Indonesia) the project proponent shall intimate the Ministry well in advance along with necessary requisite documents for its concurrence for allowing the change. In such a case the necessity for re-conduction with the Expert Appraisal Committee.	Noted & compliance assured. Change in the source of fuel supply will be intimated to the Ministry well in advance with necessary requisite documents.
(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.	Noted & compliance assured.
(vi)	Provision for installation of FGD shall be provided for future use.	Noted. Space provision for FGD has been incorporated in the project layout. As per MoEF&CC's Notification dated 07.12.2015, to comply SO2 and NOx emission standard, FGD and De-NOx system will be implemented once the project takes off.
(vii)	Coal transportation to plant site shall be undertaken by rail and no road transportation shall be permitted.	Noted.

(viii)	A detailed study on chemical composition of coal used particularly heavy metal and radio activity	Noted & compliance assured, once the project takes off.
	contents shall be carried out through a reputed	project takes orr.
	•	
	institute and report shall be submitted to	
	Regional Office of the Ministry. Only after	
	ascertaining its radioactive level shall fly ash be	
	utilized for brick manufacturing or supplied to	
	brick manufacturers.	
(ix)	The project proponent shall carry out a long term	Noted.
	R & D on Boiler efficiency vis-a-vis large variation	
	on ash content of coal and submit its findings to	
	the Ministry at a later stage.	
(x)	One tri-flue stack of 275m height with flue gas	Noted.
(^)		
	velocity not less than 22 m /s shall be installed	Adequate stack height will be provided as
	and provided with continuous online monitoring	per the guidelines & norms as prescribed
	equipments for SOx, NOx and PM10. Mercury	in MoEF&CC notification.
	emissions from stack may also be monitored on	Online monitoring system is proposed
	periodic basis.	including Mercury emissions.
(xi)	High Efficiency Electrostatic Precipitators (ESPs)	Noted & compliance assured.
	shall be installed to ensure that particulate	Electro Static Precipitator (ESPs) with
	emission does not exceed 50 mg/Nm ³ .	99.93% removal efficiency proposed to
	-	ensure that particulate emission does not
		exceed 50 mg/Nm³. Low NOx burners will
		be provided.
(xii)	Adequate dust extraction system such as	Noted & compliance assured once project
(^11)	cyclones / bag filters and water spray system in	takes off.
		takes off.
	dusty areas such as in coal handling and ash	
	handling points, transfer areas and other	
	vulnerable dusty areas shall be provided.	
(xiii)	Utilization of 100% Fly Ash generated shall be	I - I
	made from 4 th year of operation. Status of	Proposed to utilize 100% of the fly ash
	implementation shall be reported to the Regional	generated from 4 th year onwards.
	Office of the Ministry from time to time. Fly ash	In this context, MOU with Prism Cement
	in the mine void shall be used only after carrying	for supply of fly ash is already submitted.
	hydro-geological study and permission from the	
	DGMS. Fly ash shall not be used for agriculture	
	purpose	
	porpose	
(xiv)	Fly ash shall be collected in dry form and storage	Noted & compliance assured once the
()	facility (silos) shall be provided. Unutilized ash	project takes off.
	shall be disposed off in the ash pond in the form	p. 5/200 conco om
	of slurry. Mercury and other heavy metals (As, Hg,	
	Cr, Pb etc.) will be monitored in the bottom ash	
	as also in the effluents emanating from the	
	existing ash pond. No ash shall be disposed off in	
	law lying area.	
	•	

, , ,		
, ,	Ash pond shall be lined with HDP/ LDPE lining or	Noted & compliance assured.
	any other suitable impermeable media such that	HDPE/LDPE liners are proposed in the ash
	no leachate takes place at any point of time.	dyke/pond.
	Adequate safety measures shall also be	
i	implemented to protect the ash dyke from	
	getting breached. Ash pond water shall be	
	recalculated and reused.	
	Sulphur and ash contents in the coal to be used	Noted & compliance assured.
, ,	in the project shall not exceed 0.4% and 14%	Change in the source of fuel (Coal
	respectively at any given time. In case of	Quality) supply will be intimated to the
	variation of coal quality at any point of time fresh	Ministry well in advance.
		Willistry Well III advance.
	reference shall be made to the Ministry for	
	suitable amendments to environmental clearance	
	condition wherever necessary.	
	Hydrogeology of the area shall be reviewed	Noted & compliance assured.
	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 be Regional	
	Office of the Ministry.	
	No ground water shall be extracted for use in	Noted & compliance assured.
, ,	operation of the power plant even in lean season.	Water will be sourced from the Bansagar
	operation of the power plant even in lean season.	Dam through pipeline.
(xix)	No water bodies (including natural drainage	Noted & compliance assured.
	system) in the area shall be disturbed due to	Noted o compilation assured.
	activities associated with the setting up /	
	operation of the power plant.	
	Minimum required environmental flow suggested	Noted & compliance assured.
	by the Competent Authority of the State Govt.	
	shall be maintained in the Channel/ Rivers (as	
	applicable) even in lean season.	
	Land and Water requirement shall be restricted	Noted,
	as per latest CEA norms issued.	Land requirement will be 1200 acers and
		water requirement will be $5800 \text{ m}^3/\text{hr}$.
(xxii)	COC of 5.0 shall be adopted.	Noted & compliance assured.
(xxiii)	Regular monitoring of ground water level shall be	Noted & compliance assured.
	carried out by establishing a network of existing	Piezometers will be installed and ground
	wells and constructing new piezometers.	water samples will be collected and
	Monitoring around the ash pond area shall be	analyzed as well as results will be
	carried out particularly for heavy metals (Hg, Cr,	furnished to MOEF along with compliance
	As, Pb) and records maintained and submitted to	report once the plant takes off.
	•	report office the plant takes off.
	the Regional Office of this Ministry. The data so	
	obtained should be compared with the baseline	
I 1	data so as to ensure that the ground water	
	quality is not adversely affected due to the project.	

(xxiv)	Monitoring surface water quality in the area also	Noted & compliance assured once plant
(^^!V)	be regularly conducted and records maintained.	gets operational.
	The monitored data shall be submitted to the	gets operational.
	Ministry regularly. Further, monitoring points	
	shall be located between the plant and drainage	
	in the direction of flow of ground water and	
	records maintained for heavy metals in ground	
()	water shall be undertaken.	
(xxv)	Waste water generated from the plant shall be	Noted & compliance assured.
	treated before discharge to comply limits	
	prescribed by the SPCB.	
(xxvii)	Additional soil for leveling of the proposed site	Noted & compliance assured.
	shall be generated within the sites (to the extent	
	possible) so that natural drainage system of the	
	areas is protected and improved.	
(xxviii)	At least three nearest village shall be adopted	Noted.
	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.	
(xxix)	A special scheme for upliftment of SC & ST	Noted.
	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.	
(xxx)	In addition marginalized farmers indirectly	Noted & compliance assured.
	affected by the project shall be identified and	
	special scheme for sustainable livelihood for	
	these marginalized section of the poor villagers	
	whose sustenance are dependent on the land not	
	owned by them but now proposed to be acquired	
	for the proposed project shall be formulated and	
	implemented.	
(xxxi)	R&R of PAPs shall be completed in a time bound	Noted & compliance assured.
	manner and before commissioning of the	R&R plan is being implemented as
	proposed plant.	approved by M.P. govt.
(xxxii)	The project proponent shall also adequately	Noted & compliance assured.
	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.	
(xxxiii)	CSR scheme shall be undertaken based on need	Noted & compliance assured.
`,	based assessment in and around the villages	A separate budget has been earmarked
	within 5 km of the site and in constant	for CSR activities, as per Need based
	consultation with the village Panchayat and the	Assessment Report.
	District Administration. As part of CSR	
	employment of local youth after imparting	
	employment of lood youth ditel importing	

	relevant training as may be necessary shall be	
	undertaken as committed.	
(xxxiv)	An amount of Rs. 36.04 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs. 7.20 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.	Noted & compliance assured.
(xxxv)	It shall be ensured that an in-built monitoring mechanism for the CSR schemes identified is in place and 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. The achievements should be put on company's website.	Noted & compliance assured.
(xxxvi)	Green Belt consisting of 3 tiers of plantations of native species around plant and 100 m width shall be raised. The density of trees shall not less than 2500 per ha with survival rate not less than 80%.	Noted & compliance assured once project takes off.
(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.	Noted & compliance assured.
B. G	eneral 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 the effluents and storm water do not get mixed.	Noted & compliance assured.
(ii)	A sewage treatment plant shall be provided (as application) and the treated sewage shall be used for raising greenbelt/plantation.	Sewage treatment plant is proposed, treated waste-water will be used for Greenbelt / Horticulture etc. within the plant premises to maintain the zero-discharge system.
(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.	Adequate safety measures will be established in the plant area. Detailed information will be submitted to MoEF&CC.

(iv)	Storage facilities for auxiliary liquid fuel such as	Noted & compliance assured.
	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.	
(v)	First Aid and sanitation arrangements shall be	First Aid Center / facility will be made
	made for the drivers and other contract workers	available during construction phase &
	during construction phase.	operational phase.
(vi)	Noise levels emanating from turbines shall be so	Necessary action has been taken care in
(*,)	controller such that the noise in the work zone	plant designed to maintain noise levels
	shall be limited to 85 dB(A) from source.	within 85 dB(A). The working personnel
	For people working in the high noise area,	will be provided with personal protective
	requisite personal protective equipment	equipment (PPE's) & periodic audiometric
	like earplugs/ear muffs etc. shall be provided.	
	Workers engaged in noisy areas such as turbine	check-up will be carried out.
	,	
	area, air compressors, etc. shall be periodically	
	examined to maintain audiometric record and	
	for treatment for any hearing loss including loss	
(!:)	shifting to non noisy/less noisy areas.	
(vii)	Regular monitoring of ambient air ground level	Compliance assured.
	concentration of SO ₂ , NOx, 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.	
(viii)	Provision shall be made for the housing of	Noted.
	construction labour (as applicable) within the site	Local manpower will be hired during
	with all necessary infrastructure and	construction phase; so no need for
	facilities such as fuel for cooking, mobile toilets,	provision of Housing & other facilities.
	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.	
(ix)	The project proponent shall advertise in at least	Complied.
	two local newspapers widely circulated in the	An advertisement of EC has been
	region around the project, one of which shall	published in 2 local newspapers –
	be in the vernacular language of the locality	Haribhoomi and Nai Duniya dated 8 June
	concerned within seven days from the date of	2012 which was widely circulated in the
	this clearance letter, informing that the project	region.
	has been accorded environmental clearance and	A copy of the same is already submitted
	copies of clearance letter are available with the	along with first compliance report.
	Tage to the state of the state	and the state of t

	State Pollution Control Board/Committee and	
	may also be seen at Website of the Ministry of	
	Environment and Forests at http://envfor.nic.in.	
(x)	A copy of the clearance letter shall be sent by the	Complied.
	proponent to concerned Panchayat, Zila Parisad /	We have already submitted EC Letter to
	Municipal Corporation, urban local Body and the	Gram Panchayat – Bujbuja, Dokariya, Zila
	Local NGO, if any, from whom suggestions/	Panchayat, Municipal Corporation Katni,
	representations, if any, received while processing	Katni Development Authority and 2 local
	the proposal. The clearance letter shall also be	NGOs.
	put on the website of the Company by the	A copy of the same is already submitted.
	proponent.	A copy of the some is already submitted.
(vi)	•	Civ. monthly compliance status sonet in
(xi)	The proponent shall upload the status of	Six monthly compliance status report is
	compliance of the stipulated environmental	regularly submitted to MoEFCC, CPCB &
	clearance conditions, including results of	MPPCB. The same is sent by email also.
	monitored data on their website and shall update	
	the same periodically. It shall simultaneously be	Last compliance report for the period of
	sent to the Regional Office of MOEF, the	April'2020 to September'2020 had been
	respective Zonal Office of CPCB and the SPCB.	submitted our vide letter no. KTPP/ENV/
	The criteria pollutant levels namely, SPM, RSPM	EMD/EC/MoEF//504/20 date: 13/11/2020.
	$(PM_2.5 \& PM_{10})$, SO_2 , NO_x (ambient levels as well	
	as stack emissions) shall be displayed at a	Compliance report uploaded on the
	convenient location near the main gate of the	company website https://adaniinfra.com/
	company in the public domain	
(xii)	The environment statement for each financial	Noted & compliance assured.
	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 environment	
	clearance conditions and shall also be sent to the	
	respective Regional of the Ministry by e-mail.	
(xiii)	The project proponent shall submit six monthly	Six monthly compliance status report is
()	reports on the status of the implementation of	regularly submitted to MoEFCC, CPCB &
	the stipulated environmental safeguards to the	MPPCB. The same is sent by email also.
	Ministry of Environment and Forests, its Regional	Last compliance report for the period of
	Office, Central Pollution Control Board and State	April'2020 to September'2020 had been
	Pollution Control Board. The project proponent	submitted our vide letter no. KTPP/ENV/
	shall upload the status of compliance of the	EMD/EC/MoEF//504/20 date: 13/11/2020
	environment of the Environmental clearance	Compliance report uploaded on the
	conditions on their website and update the same	company website https://adaniinfra.com/
	·	Company website nitips.//adammina.com/
	periodically and simultaneously send the same by	
	e-mail to the Regional Office, Ministry of	
	Environment and Forests.	

(xiv)	Decised Office of the Ministry of Favirenment C	Noted Coompliance assured
` ′	Regional Office of the Ministry of Environment &	Noted & compliance assured.
	Forests will monitor the implementation of the	
	stipulated conditions. A complete set of	
	documents including Environment Impact	
	Assessment Report and Environment	
	Management Plan along with the additional	
	information submitted from time to time shall be	
	forwarded to the Regional Office for their use	
	during monitoring Project proponent will up-load	
	the compliance status in their website and up-	
	date the same from time to time at least six	
	monthly basis. Criteria pollutants levels including	
	NO_x (from stack & ambient air) shall be displayed	
	at the main gate of the power plant.	
(xv)	Separate funds shall be allocated for	Separate funds have been allocated for
, ,	implementation of environmental protection	implementation of environmental
	measures along with item-wise break-up. These	protection measures.
	cost shall be included as part of the project cost.	
	The funds earmarked for the environment	
	protection measures shall not be diverted for	
	other purposes and year-wise expenditure should	
	be reported to the Ministry.	
(xvi)	The project authorities shall inform the Regional	Noted & compliance assured.
(^V)	Office as well as the Ministry regarding the date	·
	of financial closure and final approval of the	Financial Closure yet to be achieved and
		Thermal Power Construction work is yet
	project by the concerned authorities and the	to start.
	dates of start of land development work and	l - , , , , , , , , , , , , , , , , , , ,
	commissioning of alant	Thermal Power Pre-construction
	commissioning of plant.	activities have already completed.
(xvii)	commissioning of plant. Full cooperation shall be extended to the	
(xvii)	,	activities have already completed. Noted & compliance assured.
(xvii)	Full cooperation shall be extended to the	activities have already completed.
(xvii)	Full cooperation shall be extended to the Scientist/Officers from the Ministry / Regional Office of the Ministry / CPCB / SPCB who would	activities have already completed. Noted & compliance assured. Full co-operation will be extended all
(xvii)	Full cooperation shall be extended to the Scientist/Officers from the Ministry / Regional	activities have already completed. Noted & compliance assured. Full co-operation will be extended all
	Full cooperation shall be extended to the Scientist/Officers from the Ministry / Regional Office of the Ministry /CPCB / SPCB who would be monitoring the compliance of environmental	activities have already completed. Noted & compliance assured. Full co-operation will be extended all
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Addition (i)	Full cooperation shall be extended to the Scientist/Officers from the Ministry / Regional Office of the Ministry /CPCB / SPCB who would be monitoring the compliance of environmental status. al Conditions (EC Amendment) As proposed, FGD, Low NOx burners with SCR shall be installed to meet the revised flue gas emission norms. The Environmental Clearance issued 1.6.2012 is based on imported coal. Any change in fuel source/quality requires fresh environmental impact assessment studies for appraising incremental resources, impacts and appropriate mitigation measures, thereof. Capital budget of 0.5% of capital cost for Greenfield project for implementing activities under Corporate Environment Responsibility as	Activities have already completed. Noted & compliance assured. Full co-operation will be extended all time. Noted & compliance assured Compliance of Low NOx burners with SCR and FGD is proposed to install once the project takes off. Noted & Agreed Noted & Agreed Revised Project Cost shall be submitted after Financial Closure.
Addition (i)	Full cooperation shall be extended to the Scientist/Officers from the Ministry / Regional Office of the Ministry /CPCB / SPCB who would be monitoring the compliance of environmental status. al Conditions (EC Amendment) As proposed, FGD, Low NOx burners with SCR shall be installed to meet the revised flue gas emission norms. The Environmental Clearance issued 1.6.2012 is based on imported coal. Any change in fuel source/quality requires fresh environmental impact assessment studies for appraising incremental resources, impacts and appropriate mitigation measures, thereof. Capital budget of 0.5% of capital cost for Greenfield project for implementing activities	Activities have already completed. Noted & compliance assured. Full co-operation will be extended all time. Noted & compliance assured Compliance of Low NOx burners with SCR and FGD is proposed to install once the project takes off. Noted & Agreed Noted & agreed Revised Project Cost shall be submitted

	implementation programme along with	done yet
	expenditure shall be submitted. As per the EC,	
	project Cost is Rs.9,009.28 Crores. The details of	
	revised project cost as on date shall submitted to	
	the Ministry within three months.	
(iv)	Date of financial closure shall be informed to the	Noted.
	Ministry. The revised project cost along with	Financial Closure yet to be achieved, the
	details of budget allocated for installation of new	Ministry will be intimated as the financial
	pollution control equipment such as FGD, De-NOx	closure achieved.
	systems to meet revised emission norms vide	
	Ministry's Notification dated 7.12.2015 shall be	
	submitted	
(v)	The progress of the construction along with the	Noted & Compliance assured
	status of implementation of FGD shall also be	Detailed report on physical activities with
	informed.	FGD status will be submitted, once the
		project takes off.
		Construction is yet to be started.