SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE (EC)

For 1320 (2x660) MW PENCH THERMAL POWER PLANT

at CHAUSARA VILLAGE, CHAURAI TEHSIL, CHHINDWARA 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:

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Introduction

Pench Thermal Energy (MP) Limited- PTE(MP)L (formerly known as Adani Pench Power Limited) has proposed to set up a 1320 (2x660) MW Coal-based Thermal Power Plant near Chausara Village of Chhindwara District in Madhya Pradesh. The power plant is proposed to be based on supercritical, energy efficient & environment friendly technology.

Adani Power Limited (APL) has signed MoU with Energy Department, Government of Madhya Pradesh on 8th July 2009 for developing a Thermal Power Project of 1320 MW capacity near Chausara, District Chhindwara, Madhya Pradesh. The proposed site is located at approximately 150 km from Nagpur and 30 Kms from Chhindwara.

PTE(MP)L has been granted Environmental Clearances & Consent to Establish from Ministry of Environment & Forest & Madhya Pradesh Pollution Control Board. PTE(MP)L also obtained all necessary statutory / mandatory clearance respectively.

MoEF&CC office order for Name change from Adani Pench Power Limited to Pench Thermal Energy (MP) Limited has been received vide letter dated 18.10.2019. PTE(MP)L has been granted Extension in validity of EC vide letter no. J-13012/30/2010-IA.II (T) dated: 26.12.2019.

PTE(MP)L has tied up imported coal from Indonesia, South Africa etc. to be used as an interim arrangement. Water will be drawn from the Pench Diversion Project which is located at a distance of about 4.5 km from project site. Water will be brought to the site through a dedicated pipeline. Water allocation of 33.29 MCM has been received from Water Resource Department, Govt. of Madhya Pradesh.

PTE(MP)L has completed infrastructure development and enabling works for the Power Plant, such as: Boundary wall, stores, office, admin building, Erector's Hostel (Guest House), Sewage Treatment Plant & Transmission line ROW/ROU & Thermal Power Project pre-construction activities etc.

Compliance status of Environmental Clearance

1320 (2×660) MW Pench Thermal Power Plant Vide letter No. J 13012/30/2010-IA-II (T) dated 16/10/2012 & dated 26.12.2019

A.	Specific Conditions	Compliance Status
i.	Vision document specifying prospective	Vision Document was submitted along with
	plan for the site shall be formulated and	Compliance Report
	submitted to the Regional Office of the	
	Ministry within six months.	
ii.	Harnessing solar power within the	68 nos. of Solar Lights already installed
	premises of the plant particularly at	along the approach road and nearby
	available roof tops shall be undertaken	villages. Further Solar Lights have been
	and status of implementation shall be	considered during detailed engineering of
	submitted periodically to the Regional	the Plant Layout.
	Office of the Ministry.	
iii.	A study shall be undertaken through a	Noted
	reputed Govt. Organization / Agriculture	Compliance assured during the plant
	University on the impact on vegetation	operation
	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.	
iv	In case source of fuel supply is to be	Noted
	changed at a later (now proposed	Compliance assured
	imported coal from South Africa) the	
	project proponent shall intimate the	
	Ministry well in advance along with	
	necessary requisite documents for its concurrence for allowing the change. In	
	such case necessity for conducting	
	public hearing may be decided by the	
	Ministry in consultation with the Expert	
	Appraisal Committee.	
V	Sulphur and ash content in the coal to be	Noted
	used in the project shall not exceed 0.5%	Compliance assured
	and 29% 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	

A.	Specific Conditions	Compliance Status
	amendments to environmental clearance	
	condition wherever necessary.	
vi	A wildlife conservation plan shall be	Wildlife Conservation plan prepared by
	formulated in consultation with the	Consultants in consultation with forest
	Office of the Chief Wildlife Warden and	dept.
	duly vetted by the concerned Chief	The Conservation plan already submitted
	Wildlife Warden for immediate	along with Compliance report for valuable
	implementation. The plan shall have an	suggestions & implementation.
	in-built monitoring	
	mechanism.	
vii	Provision for installation of FGD shall be	Space has been provided for FGD in the
	provided for further use.	Plant layout.
viii	Coal transportation to plant site shall be	Noted
	undertaken by rail and no road	Compliance assured
	transportation shall be permitted	
ix	A long term study of radio activity and	Noted
	heavy metals contents on coal to be used	Compliance assured
	shall be carried out through a reputed	
	institute. Thereafter mechanism for an	
	in-built continuous monitoring for radio	
	activity and heavy metals in coal and fly	
	ash (including bottom ash) shall be put in	
	place.	
×	Continuous monitoring for heavy metals	There is no existing Ash Pond. However,
	in and around the existing ash pond area	compliance to the condition will be made
	shall be carried out by reputed institutes	for the proposed Ash Pond.
•	like IIT, Roorkee.	Notes
xi	Fly ash shall not be used for mine void	Noted
	filling without prior approval of the	Compliance assured.
vii	DGMS is obtained.	This is a standard especial and as asian at
xii	The project proponent shall carry out a	This is a standard practice and on-going at
	long-term R&D on Boiler efficiency vis-a- vis large variation on ash content of coal	all plant units of Adani Power Group.
	and submit its findings to the Ministry at	
	a later stage	
xiii	A stack of 275 m Height with flue gas	Stack Height of 275 m is proposed with
^'''	velocity not less than 22 m/s shall be	Online monitoring facility.
	installed and provided with continuous	Crimic mornitoring roomey.
	online monitoring equipments for SOx,	
	NOx and PM2.5 & PM10. Mercury	
	INON ONO TIME, J & FINITO, INTERCOTY	

A.	Specific Conditions	Compliance Status
	emissions from stack may also be	
	monitored on periodic basis.	
xiv	High Efficiency Electrostatic Precipitator	Electrostatic Precipitator (ESPs) with
	(ESPs) shall be installed to ensure that	99.93% removal efficiency proposed to
	particulate emission does not exceed 50	ensure that particulate emission does not
	mg/Nm3	exceed 50 mg/Nm3.
xv	Adequate dust extraction system such as	Water sprinkling proposed in Coal Stock
	cyclones / bag filters and water spray	Yard. Dust Extraction System proposed in
	system in dusty areas such as in coal	Crusher House, Transfer Points and Fly Ash
	handling and ash handling points,	Silos.
	transfer areas and other vulnerable dusty	
	areas shall be provided.	
xvi	Utilisation of 100% Fly Ash generated	Noted
	shall be made from 4th year of operation.	Compliance assured
	Status implementation shall be reported	
	to the Regional Office of the Ministry	
	from time to time.	
xvii	Fly ash shall be collected in dry form and	Dry Collection & Disposal of Fly Ash
	storage facility (silos) shall be provided.	proposed. Monitoring will be carried out on
	Utilized fly ash shall be disposed off in	regular basis during plant operation
	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 shall be disposed off in low lying	
	area.	
xviii	Ash pond shall be lined with HDP / LDPE	Ash Pond is proposed to be lined with LDPE.
	lining or any other suitable impermeable	Safety Measures are being provided at
	media such that no leachate takes place	detailed engineering stage itself. Ash Water
	at any point of time. Adequate safety	recirculation is proposed
	measures shall also be implemented to	
	protect the ash dyke from getting	
	breached. Ash pond water shall be re	
	circulated and utilized.	
xix	Hydrogeology of the area shall be	Noted.
	reviewed annually from an institute /	Compliance assured.
	organization of repute to assess impact	
	of surface water and ground regime	
	(especially around ash dyke). In case any	
	deterioration is observed specific	

A.	Specific Conditions	Compliance Status
	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.	
XX	No ground water shall be extracted for use in operation of the power plant even in lean season	Noted. Compliance assured.
xxi	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.	Noted. Compliance assured.
xxii	Minimum required environment 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, as the water allocation for the project is from Pench Diversion Dam/ Project and water is sufficient availability in dam.
xxiii	Land and Water requirement shall be restricted as per latest CEA norms issued.	Noted. Land and water requirement are limited well within the CEA norms.
xxiv	COC of 5.0 shall be adopted.	Noted. Compliance assured.
XXV	Regular monitoring of ground water level shall be carried out by establishing a network existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Noted. Compliance assured.
xxvi	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	Noted. Compliance assured.

A.	Specific Conditions	Compliance Status
	drainage in the direction of flow of	
	ground water and records maintained.	
	Monitoring for heavy metals in ground	
	water shall be undertaken.	
xxvii	Waste water generated from the plant	Plant is being designed for zero discharge.
	shall be treated before discharge to	However, ETP & STP are proposed to meet
	comply limits prescribed by the SPCB.	MPPCB norms.
xxviii	The project proponent shall undertake	Rainwater Harvesting is proposed and will
	rainwater harvesting measures and shall	be incorporated during detailed
	develop water storage for use in	engineering and before commissioning of
	operation of the plant. Rainwater	plant / unit. Rainwater harvesting report
	harvesting system shall be put in place	already submitted along with Compliance Report.
	which shall comprise of rain-water	Report.
	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.	
xxix	Additional soil for levelling of the	Noted.
	proposed site shall be generated within	Compliance assured.
	the site (to the extent possible) so that	
	natural drainage system of the area is	
	protected and improved.	
xxx	At least three nearest village shall be	Noted.
	adopted and basic amenities like	Compliance assured once the project take
	development of roads, drinking water	off.
	supply, primary health centre, primary	
	school etc shall be developed in co-	
	ordination with the district	
	administration.	
xxxi	A special scheme for upliftment of SC &	Noted.
	ST population in the study area shall be	Compliance assured.
	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.	Noted
xxxii	In addition marginalized farmers	Noted.
	indirectly affected by the project shall be	Compliance assured.
	identified and special scheme for	
	sustainable livelihood for these	

A.	Specific Conditions	Compliance Status
	marginalized section of the poor villagers whose sustenance are dependent on the land not owned by them but falling in the proposed power project shall be formulated and implemented.	
xxxiii	R&R of PPAs shall be completed in a time bound manner and before commissioning of the proposed plant.	Power Project along with land and infrastructures transferred by MPEB to Adani Power. No R&R was involved.
xxxiv	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing patable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Social development activities being carried out under the CSR activities by Adani Foundation. Need based Assessment Study report already submitted along with Compliance Report
xxxv	CSR scheme 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.	We have carried out a Need Based Assessment study of nearby villages. Study report has been already submitted to MoEF&CC, New Delhi. Regular CSR activities being carried out by Adani Foundation.
xxxvi	An amount of Rs. 30.0 Crores shall be earmarked as one time capital cost of CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs. 6.0 Crores per annum till the life of the plant shall be earmarked as recurring expenditure of CSR activities. Details of the activities to be undertaken shall be submitted within six months along with road map for implementation.	A separate budget earmarked for CSR activities in Need based Assessment Study Report already submitted along with Compliance Report
xxxvii	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	Noted Compliance assured, once the project take off.

A.	Specific Conditions	Compliance Status
	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.	
xxxviii	Green Belt consisting of 3 tiers of	Green Belt provided in the Plant Layout.
	plantation of native species around plant	
	and 50 m width shall be raised. The	
	density of trees shall not less than 2500	
	per Ha with survival rate not less than	
	80%.	
xxxix	An Environmental Cell shall be created at	We have established Environment
	the project site itself and shall be headed	Management Department with Senior
	by an officer of appropriate seniority and	Management at Corporate level. Site
	qualification. It shall be ensured that the	Environment Cell will be created once
	head of the Cell shall directly report to	project construction is started.
_	the Head of the Organization.	
B.	General Conditions	Compliance Status
i	The treated effluents confirming to the	Plant is designed for zero discharge. Storm
	prescribed standards only shall be re-	Water & Effluent Streams will be provided
	circulated and reused within the plant.	separately.
	Arrangements shall be made that	
	effluents and storm water do not get	
::	mixed.	CTD assessed Transland assumes will be used
ii	A sewage treatment plant shall be	STP proposed. Treated sewage will be used
	provided (as applicable) and the treated	for Plantation/Green Belt development and
	sewage shall be used for raising	maintenance.
iii	greenbelt / plantation.	Noted.
'''	Adequate safety measures shall be provided in the plant area to check /	
	· ·	Compliance assured, once the project take
	minimize spontaneous fires in coal yard,	off
	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	
is a	the Regional Office of the Ministry.	Noted
iv	Storage facilities for the auxiliary liquid	Noted.
	fuel such as LDO / HFO / LSHS shall be	Compliance assured, once the project take
	made in the plant area in consultation	off
	with Department of Explosives, Nagpur.	

A.	Specific Conditions	Compliance Status
	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	Noted.
	shall be made for the drivers and other	Compliance assured, once the project take
	contract workers during construction	off
	phase.	
vi	Noise levels emanating from turbines	All equipment will be designed and
	shall be so controlled such that the noise	procured to have noise level of less than 85
	in the work zone shall be limited to 85	dB (A) at a distance of 1 m.
	dB(A) from source. For people working in	, ,
	the high noise area, requisite personal	
	protective equipment like earplug /	
	earmuffs etc. shall be provided. Workers	
	engaged in noisy area 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.	
vii	Regular monitoring of ambient air ground	Noted.
	level concentration of SO2, NOx, PM2.5,	Compliance assured, once the project take
	& PM10 and Hg shall be carried out in the	off
	impact zone and records maintained. If at	
	any stage these levels are found to exit	
	the prescribed limits, necessary control measures shall be provided immediately.	
	The locations 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	Noted.
	of construction labour (as applicable)	Compliance assured, once the project take
	within the site with all necessary	off
	infrastructure and facilities such as fuel	
	for cooking, mobile toilets, mobile STP,	

A.	Specific Conditions	Compliance Status
	safe drinking water, medical health care,	
	crèche etc. The housing may be in the	
	form of temporary structure to be	
	removed after the completion of the	
	project.	
ix	The project proponent shall advertise in	Complied.
	at least two local newspapers widely	It was advertised in local daily News Paper
	circulated in the region around the	'Dainik Bhaskar and Jabalpur Express' on
	project, one of which shall be in the	28th October 2012. Advertisement copy
	vernacular language of the locality	already submitted
	concerned within seven days from the	along with Compliance Report of October'
	date of this clearance letter, informing	2012 to March' 2013.
	that the project has been accorded	
	environment clearance and copies of	
	clearance letter 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://envfor.inc.in.	
×	A copy of the clearance letter shall be	Complied,
	sent by the proponent to the concerned	Acknowledged copies already submitted
	Panchayat, Zila Parisad / Municipal	along with Compliance Report of October'
	Corporation, urban local Body and the	2012 to March' 2013.
	Local NGO, if any, from whom	EC copy also placed on the website -
	suggestions/ representations, if any,	www.adanipower.com
	received while processing the proposal.	
	The clearance letter shall also be put	
xi	The proponent shall upload the status of	Six monthly compliance status report is
	compliance of the stipulated	regularly submitted to MoEF&CC, CPCB &
	Environmental clearance conditions,	MPPCB. The same is sent by email also.
	including results of monitored data on	Compliance status updated on Company's
	their website and shall update the same periodically. It shall simultaneously be	website. Compliance assured, once the project
	sent to the Regional Office of MoEF, the	take off.
	respective Zonal Office of CPCB and the	CORE OII.
	SPCB. The criteria pollutant levels	
	namely; SPM, RSPM (PM2.5 & PM10),	
	SO2, NOx (ambient levels as well as stack	
	emissions) shall be displayed at	
	convenient location near the main gate	
	of the company in the	

A.	Specific Conditions	Compliance Status
	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 email.	Noted. Compliance assured, once the project take off.
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 and Forests, its Regional Office, Central 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 and Forests.	Six monthly compliance reports is being submitting to MoEF, CPCB, & MPPCB regularly. The same is sent by email also. Compliance status updated on Company's website. Last compliance report for the period of April'2020 to September'2020 had been submitted vide our letter no.: APL/APPL/EMD/EC/MoEF/192/11/20 dated-12/11/2020.
xiv	Regional Office of the Ministry of Environment and Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environmental Management Plan along with 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	Noted. Compliance assured, once the project take off.

A.	Specific Conditions	Compliance Status
	monthly basis. Criteria pollutants levels	
	including NOx (from stack & ambient air)	
	shall be displayed at the main gate of the	
	power plant.	
XV	Separate funds shall be allocated for	Compliance assured.
	implementation of environmental	Separate funds earmarked for
	protection measures along with item-	implementation of environmental
	wise break-up. This cost shall be included	protection and details already submitted
	as a part of the project cost. The funds earmarked for the environment	along with Compliance Report of October'12 to March'2013.
	protection measures shall not be	October 12 to March 2013.
	diverted for other purposes and year-	
	wise expenditure should be reported to	
	the ministry.	
xvi	The project authorities shall inform the	The Thermal Power Project preconstruction
	Regional Office as well as the Ministry	activities completed.
	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 plant.	
xvii	Full co-operation shall be extended to	Noted,
	the Scientists / Officers from the Ministry	Full co-operation shall be extended.
	/ Regional Office of the Ministry / CPCB /	
	SPCB who would be monitoring the	
Addition	compliance of environmental status.	
Addition	nal Conditions (EC Extension)	Noted 9 Compliance assured
'	Revised Project Cost at the current price shall be submitted. The revised cost shall	Noted & Compliance assured. The details regarding revised Project cost
	also include the installation of FGD and	with cost of installation of FGD and De-NOx
	De-NOx systems. The cost should	systems will be submitted after detailed
	separately indicate the amount	engineering & project construction.
	earmarked for FGD and De-NOx system.	
ii	As committed, installation of ESP, FGD	Noted & agreed
	and De-NOx systems such as De-NOx	Compliance assured once the project takes
	burners along with SCR shall be	off.
	implemented to meet new emission	
	norms of PM:100 mg/Nm3, S02: 100	
	mg/Nm3 and NOx: 100 mg/Nm3 and	
	Mercury: 0.03 mg/Nm3	

A.	Specific Conditions	Compliance Status
iii	The implementation of CSR activities in	CSR activities being carried out since 2010.
	the surrounding villages along with	Details CSR report along with expenditure
	expenditure shall be submitted to	will be submitted, once the project takes
	District Collector and the Regional Office	off.
	of this Ministry.	
iv	Copy of fresh Coal and water linkages as	Noted & Compliance assured
	and when obtained shall be submitted.	
V	Copy of PPA to be furnished and the zero	Compliance assured.
	date of construction shall be intimated.	Power Purchase Agreement (PPA) is signed
	Progress of construction including	Zero date of construction & Progress of
	installation of FGD, De-NOx systems shall	construction including installation of FGD,
	be submitted to the Regional Office of	De-NOx will be intimated once the project
	the Ministry. Date of commissioning	takes off.
	(COD) of units shall be informed to the	
	Ministry.	