

Ref: APL/PTE(MP)L/EMD/EC/MoEFCC/022/23

Date- 22.11.2023

To,

Additional Principal Chief Conservator of Forest Ministry of Environment, Forest and Climate Change

Regional Office, Western Region

Kendriya Paryavaran Bhavan, Link Road No- 3, E-5,

Ravi Shankar Nagar, Bhopal - 462 016 (M.P)

Sub: Six Monthly Compliance Status of Environment Clearances for Pench Thermal Power Plant at Village Chausara, Chhindwara, Madhya Pradesh.

Ref: Environmental clearance letter no. J-13012/30/2010-IA.II (T) Dated- 16.10.2012 & validity extension dated 26.12.2019.

Transfer of EC from Adani Pench Power Ltd to Pench Thermal Energy (MP) Limited dated 18.10.2019.

Dear Sir.

With reference to the above subject, please find enclosed herewith Six-Monthly Environment Clearances (EC) compliance status report for the period of **April'2023 to September'2023** in soft (e-mail).

Thermal Power Project construction work yet to start and financial closure yet to be achieved.

This is for your kind information & record please.

Thanking You, Yours faithfully,

whi

for Pench Thermal Energy (MP) Limited

(R N Shukla)

Head Env. & Forest

Encl: as above

CC:

Member Secretary

**Central Pollution Control Board** 

Parivesh Bhavan, East Arjun Nagar Kendriya Paryavaran Bhawan

New Delhi- 110 032

Member Secretary,

Madhya Pradesh Pollution Control Board

Paryavaran Parisar, E-5, Arera Colony,

Bhopal, MP

The Regional Officer

Madhya Pradesh Pollution Control Board

Parasiya Road, Chhindwara, MP

Pench Thermal Energy (MP) Limited

(Formerly knowns as Adani Pench Power Ltd.) Adani Corporate House Shantigram, S G Highway Ahmedabad 382 421

Gujarat India

CIN: U40100GJ2009PLC058171

Tel +91 79 2555 7022 Fax +91 79 2555 5500 env.power@adani.com www.adani.com

Registered Office: Adani Corporate House, Shantigram, S G Highway, Vaishnodevi Circle, Ahmedabad – 382 421, Gujarat, India

# SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

1320 (2x660) MW PENCH THERMAL POWER PLANT

At

# CHAUSARA VILLAGE, CHAURAI TEHSIL, CHHINDWARA DISTRICT MADHYA PRADESH

#### Submitted to:

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



# Submitted By:

Corporate Environment Management
Pench Thermal Energy (MP) Limited
Adani Corporate House,
Shantigram, S G Highway
Ahmedabad, Gujarat

Period: April'2023 - September'2023

#### Contents

SI. No.	Title
1.	Introduction
2.	Compliance Status of Environmental Clearance (EC)

#### 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.

The total requirement of land for the power project is around 300 Ha. The possession of 300 Ha has been already transferred with infrastructure by MPEB, Govt. of Madhya Pradesh to PTE(MP)L, 5.27 MTPA of Imported Coal is to be made available for interim arrangement, due to non-availability of domestic coal linkage. Coal linkage is under consideration. Meanwhile, 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 plan for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.	Vision Document was submitted along with Compliance Report
ii.	Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry.	68 nos. of Solar Lights already installed along the approach road and nearby villages. Further Solar Lights have been considered during detailed engineering of the Plant Layout.
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 during the plant operation.
iv	In case source of fuel supply is to be changed at a later (now proposed 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.	Noted Compliance assured.
V	Sulphur and ash content in the coal to be used in the project shall not exceed 0.5% 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 amendments to environmental clearance condition wherever necessary.	Noted Compliance assured during the plant operation.
vi	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.	Wildlife Conservation plan prepared by Consultants in consultation with forest dept. The Conservation plan already submitted along with Compliance report of April'2013 to September'2013 for valuable suggestions & implementation.

	The plan shall have an in-built monitoring mechanism.	
vii	Provision for installation of FGD shall be provided for further use.	Space has been provided for FGD in the Plant layout.
viii	Coal transportation to plant site shall be undertaken by rail and no road transportation shall be permitted	Noted Compliance assured.
ix	A long term study of radio activity and heavy metals contents on coal to be used 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.	Noted Compliance assured during the plant operation.
×	Continuous monitoring for heavy metals in and around the existing ash pond area shall be carried out by reputed institutes like IIT, Roorkee.	There is no existing Ash Pond. However, compliance to the condition will be made for the proposed Ash Pond.
xi	Fly ash shall not be used for mine void filling without prior approval of the DGMS is obtained.	Noted Compliance assured.
xii	The project proponent shall carry out a long-term R&D on Boiler efficiency vis-avis large variation on ash content of coal and submit its findings to the Ministry at a later stage	This is a standard practice and on-going at all plant units of Adani Power Group.
xiii	A stack of 275 m Height with flue gas velocity not less than 22 m/s shall be installed and provided with continuous online monitoring equipments for SOx, NOx and PM2.5 & PM10. Mercury emissions from stack may also be monitored on periodic basis.	Stack Height of 275 m is proposed with Online monitoring facility and flue gas velocity will be maintained.
xiv	High Efficiency Electrostatic Precipitator (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm3	Electrostatic Precipitator (ESPs) with 99.93% removal efficiency is proposed to install and ensure that particulate emission does not exceed 50 mg/Nm3.
xv	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.	Water sprinkling is proposed in Coal Stock Yard. Dust Extraction System proposed in Crusher House, Transfer Points and Fly Ash Silos.
xvi	Utilisation of 100% Fly Ash generated shall be made from 4th year of operation. Status implementation shall be reported to the Regional Office of the Ministry from time to time.	Noted Compliance assured.

xvii	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Utilized 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 shall be disposed off in low lying area.	Dry Collection & Disposal of Fly Ash proposed. Monitoring will be carried out on regular basis during plant operation.
xviii	Ash pond shall be lined with HDP / 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. Ash pond water shall be re circulated and utilized.	Ash Pond is proposed to be lined with LDPE. Safety Measures are being provided at detailed engineering stage itself. Ash Water recirculation is proposed.
xix	Hydrogeology 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.	Noted. Compliance assured.
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.
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	Noted. Compliance assured.

	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.	Al . I
xxvi	Monitoring surface water quality in the	Noted.
	area shall also be regularly conducted	Compliance assured.
	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.	
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
	rainwater harvesting measures and shall	will 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
	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.
000	adopted and basic amenities like	Compliance assured under CSR activities
	development of roads, drinking water	by Adani Foundation once the project
	supply, primary health centre, primary	takes off.
		Lakes UII.
	school etc. shall be developed in co-	
	ordination with the district administration.	
wwi		Noted
xxxi	A special scheme for upliftment of SC & ST population in the study area shall be	Noted. Compliance assured.
	I SI DODINATION IN THA CENTAL ACAS CHAN DA	i camanance 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.	
xxxii	In addition marginalized farmers	Noted.
	indirectly affected by the project shall be	Compliance assured.
	identified and special scheme for	
	sustainable livelihood for these	
	marginalized section of the poor	
	•	
	•	
	dependant 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	Power Project along with land and
	bound manner and before	infrastructures transferred by MPEB to
	commissioning of the proposed plant.	Adani Power.
		No R&R was involved.
xxxiv	The project proponent shall also	Social development activities being
	adequately contribute in the	carried out under the CSR activities by
	development of the neighbouring	Adani Foundation. Need based
	villages. Special package with	Assessment Study report already
	implementation schedule for providing	submitted along with Compliance Report
	patable drinking water supply in the	Scottificate drong with compliance report
	nearby villages and schools shall be	
	undertaken in a time bound manner.	
		Ma have cossed out a Need Daged
xxxv	CSR scheme shall be undertaken based	We have carried out a Need Based
	on need based assessment in and around	Assessment study of nearby villages.
	the villages within 5 km of the site and in	Study report has been already submitted
	constant consultation with the village	to MoEF&CC, New Delhi. Regular CSR
	Panchayat and the District	activities being carried out by Adani
	Administration. As part of CSR	Foundation.
	employment of local youth after	
	imparting relevant training as may be	
	necessary shall be undertaken as	
	committed.	
xxxvi	An amount of Rs. 30.0 Crores shall be	A separate budget earmarked for CSR
	earmarked as one time capital cost of	activities in Need based Assessment
	CSR programme as committed by the	Study Report already submitted along
	project proponent. Subsequently a	with Compliance Report
	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.	

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 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.	Noted Compliance assured, once the project takes off.
xxxviii	Green Belt consisting of 3 tiers of 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%.	Green Belt provided in the Plant Layout and will be developed as per the guidelines of CPCB & MPPCB.
xxxix	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.	We have established Environment Management Department with Senior Management at Corporate level. Site Environment Cell will be created once project construction is started.
В.	General Conditions	Compliance Status
i	The treated effluents confirming to the prescribed standards only shall be re-	Plant designed is based on Zero Liquid
	circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.	Discharge (ZLD).  Storm Water & Effluent Streams will be provided separately.
ii	circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.  A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising	Storm Water & Effluent Streams will be
iii	circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.  A sewage treatment plant shall be provided (as applicable) and the treated	Storm Water & Effluent Streams will be provided separately.  STP proposed. Treated sewage will be used for Plantation/Green Belt

	eventuality in case of an accident taking place due to storage of oil.	
v	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Noted. Compliance assured.
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 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.	All equipment will be designed and procured to have noise level of less than 85 dB (A). Necessary PPE's will be provided during plant operation.
vii	Regular monitoring of ambient air ground level concentration of SO2, NOx, PM2.5, & PM10 and Hg shall be carried out in the 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.	Noted. Compliance assured, once the project takes off.
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 structure to be removed after the completion of the project.	Noted. Compliance assured, once the project takes off
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	Complied. It was advertised in local daily News Paper 'Dainik Bhaskar and Jabalpur

	vernacular language of the locality	Express' on 28th October 2012.
	concerned within seven days from the	Advertisement copies already submitted
	date of this clearance letter, informing	along with Compliance Report of October'
	that the project has been accorded	2012 to March' 2013.
	environment clearance and copies of	2012 to March 2013.
	•	
	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.	
X	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	
хi	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.
	including results of monitored data on	Compliance status updated on Company's
	their website and shall update the same	website.
	periodically. It shall simultaneously be	WC551661
	sent to the Regional Office of MoEF, the	Compliance assured once the project
	respective Zonal Office of CPCB and the	takes off.
	SPCB. The criteria pollutant levels	takes off.
	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	
	_	
xii	of the company in the public domain.  The environment statement for each	Noted.
^''	financial year ending 31st March in	
	Form-V as is mandated to be submitted	Compliance assured, once the project takes off.
		LONES UII.
	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.	
xiii	The project proponent shall submit six	Six monthly compliance reports is being
	monthly reports on the status of the	submitting to MoEF, CPCB, & MPPCB
	implementation of the stipulated	regularly. The same is sent by email also.
	Environmental safeguards to the	

	Ministry of Fourseament and Forests its	Compliance status undated on Company's
	Ministry of Environment and Forests, its Regional Office, Central Pollution	Compliance status updated on Company's website.
	•	
	Control Board. The project proponent	Last compliance report for the period of October'2022 to March'2023 has been
	shall upload the status of compliance of	
	the environment of the environmental	submitted vide letter no.: APL/APPL/
	clearance conditions on their website	EMD/EC/MoEFCC/111/05/23
	and update the same	dated-17/05/2023.
	periodically and simultaneously send the	
	same by e-mail to the Regional Office,	
	Ministry of Environment and Forests.	
xiv	Regional Office of the Ministry of	Noted.
	Environment and Forests will monitor	Compliance assured, once the project
	the implementation of the stipulated	takes off.
	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	
	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	protection and details already submitted
	included as a part of the project cost.	along with Compliance Report of
	The funds earmarked for the	October'12 to March'2013.
	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	The Thermal Power Project
	Regional Office as well as the Ministry	preconstruction 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	Full co-operation shall be extended.
	Ministry / Regional Office of the Ministry	Silve operation shall be extended.
	/ CPCB / SPCB who would be monitoring	
ĺ	the compliance of environmental status.	

Additio	Additional Conditions (EC Extension)	
i	Revised Project Cost at the current price shall be submitted. The revised cost shall also include the installation of FGD and De-NOx systems. The cost should separately indicate the amount earmarked for FGD and De-NOx system.	Noted & Compliance assured.  The details regarding revised Project cost with cost of installation of FGD and De-NOx systems will be submitted after detailed engineering & project construction.
ii	As committed, installation of ESP, FGD and De-NOx systems such as De-NOx burners along with SCR shall be 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	Noted & agreed. Compliance assured once the project takes off.
iii	The implementation of CSR activities in the surrounding villages along with expenditure shall be submitted to District Collector and the Regional Office of this Ministry.	CSR activities being carried out since 2010. Details CSR report along with expenditure will be submitted, once the project takes off.
iv	Copy of fresh Coal and water linkages as and when obtained shall be submitted.	Noted & Compliance assured.
V	Copy of PPA to be furnished and the zero date of construction shall be intimated. Progress of construction including installation of FGD, De-NOx systems shall be submitted to the Regional Office of the Ministry. Date of commissioning (COD) of units shall be informed to the Ministry.	Compliance assured. Power Purchase Agreement (PPA) is yet signed. Zero date of construction & Progress of construction including installation of FGD, De-NOx will be intimated once the project takes off.

\*\*\*\*