

**SIX MONTHLY COMPLIANCE REPORT OF
ENVIRONMENT CLEARANCE (EC)**

1320 (2×660) MW THERMAL POWER PLANT

At

**DADRI KHURD VILLAGE,
MIRZAPUR SADAR TEHSIL
MIRZAPUR DISTRICT
UTTAR PRADESH**

Submitted to:

**Central Regional Office
Ministry of Environment, Forest & Climate Change
Central Pollution Control Board, New Delhi &
Uttar Pradesh Pollution Control Board, Lucknow**

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Submitted By:

**Environment Management Department
Mirzapur Thermal Energy (UP) Pvt. Ltd.
Dadri Khurd Village, Mirzapur Sadar Tehsil
Mirzapur District, Uttar Pradesh**

PERIOD: October'2020 – March'2021

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INTRODUCTION

Environmental Clearance had been granted for 2x660 MW Super Critical Coal based Mirzapur Thermal Power Project located at Village Dadri Khurd, Tehsil Mirzapur Sadar, District Mirzapur, Uttar Pradesh in the name of **Welspun Energy UP Pvt Ltd.** (WEUPPL) by MoEF&CC vide letter no. J-13012/12/2011-IA.II (T) dated 21st August 2014.

WEUPPL has been 100% acquired by Adani Infra (India) Limited and subsequently name of the company has been changed to **Mirzapur Thermal Energy (UP) Private Limited** with effect from 16th August 2019.

Application for name change of Environmental Clearance has been done vide online proposal no. IA/UP/THE/117987/2019 dated 16th September 2019. MoEF&CC and application is under process.

The project includes Forest land area of **8.3581 ha** for which WEUPPL has applied for diversion vide proposal No. FP/UP/THE/14236/2015 dated 29/07/2015 and the same is under process, details is already provided along with application.

EC amendment application has also been made vide proposal no. IA/UP/THE/10331/2010 dated 17 Jun 2017 for inclusion of forest land and other details. In this regards, vide letter dated 20.12.2019 MoEF&CC asked to clarify the status/details of the present proponent along with Stage-I Forest Clearance for further consideration of EC Amendment & name change proposal.

Construction activities for Mirzapur Thermal Power Project has not been started.

Financial is yet to be achieved.

Compliance Status on Environmental Clearance
Of 1320 MW (2×660MW) Coal Based Thermal Power Plant
Vide letter No. J-13012/12/2011-IA.II (T) Dated: 21.08.2014

A	Specific Condition	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 documents submitted along with compliance report for April'15 to September' 2015.
(ii)	A firm commitment/approval from Railway Authorities for transportation of imported coal shall be submitted to this Ministry and its Regional Office	Noted, In-principle approval letter received from North Central Railway (NCR). NCR letter submitted along with compliance report for April'15 to September'2015.
(iii)	Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half yearly monitoring report.	Noted, Compliance assured, once the project takes off.
(iv)	A stack of 275 m height shall be provided with continuous online monitoring equipments for SO _x , NO _x and PM _{2.5} & PM ₁₀ . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.	Noted & Compliance assured Adequate Stack height is proposed as per CEA & MoEFCC new emission norms Online monitoring system is also proposed.
(v)	Sulphur and ash contents in the imported coal to be used in the project shall not exceed 0.34 % and 14.0 % 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 wherever necessary.	Noted & Compliance assured once project takes off.
(vi)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ . 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.	Electro Static Precipitator (ESPs) with 99.93% removal efficiency proposed to ensure that particulate emission does not exceed 50 mg/Nm ³ .
(vii)	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.	Noted, Compliance assured, once the project takes off.
(viii)	COC of atleast 5.0 shall be adopted.	Noted & compliance assured. This has been incorporated in the plant design.

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(ix)	Monitoring of surface water quantity and quality 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 also be undertaken and results/findings submitted along with half yearly monitoring report.	Noted, Compliance assured, once the project takes off.
(x)	A well designed rain water harvesting system shall be put in place within six months, which shall comprise of rain water collection from the built up and open area in the plant premises and detailed record kept of the quantity of water harvested every year and its use.	Noted & compliance assured.
(xi)	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
(xii)	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, once the project takes off.
(xiii)	Wastewater generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB/CPCB.	Noted Compliance assured.
(xiv)	Additional soil for leveling 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.	Noted & compliance assured. Levels will be finalized in such a way that there is no surplus earth.
(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. 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.	Noted, Compliance assured, once the project takes off.
(xvi)	Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed	Noted Compliance assured.

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	study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close coordination with the State Pollution Control Board.	
(xvii)	Fugitive emission of fly ash (dry or wet) shall be controlled such that no agricultural or non-agricultural land is affected. Damage to any land shall be mitigated and suitable compensation provided in consultation with the local Panchayat.	Noted Compliance assured.
(xviii)	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.	Ash Pond is proposed to be lined with LDPE. Safety Measures are being provided at engineering stage itself. Ash Water recirculation is proposed
(xix)	A long term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute and results thereof analyzed every two year and reported along with monitoring reports. 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.
(xx)	Green Belt consisting of three tiers of plantations of native species around plant and at least 50 m width shall be raised. Wherever 50 m width is not feasible a 20 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 80 %.	Noted, Green belt development will be taken up along with project construction.
(xxi)	The Wildlife conservation plan formulated in consultation with the Wildlife Department of the State and duly vetted by the concerned Chief Wildlife Warden shall be duly implemented. An in-built monitoring mechanism shall also be put in place.	Wild life conservation plan has been prepared with budgetary provision by reputed consultant M/s Green Future Foundation. The same has been vetted and approved by PCCF, Wild life- (Lucknow), UP. A copy of the same already submitted with compliance report to MoEF.
(xxii)	CSR schemes identified based on need based assessment shall be implemented in consultation with the village Panchayat and the District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programmes.	Noted Compliance assured.

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(xxiii)	A minimum amount of Rs 30.0 Crores as one time capital investment shall be earmarked for activities to be taken up under CSR during construction phase of the Project. Recurring expenditure for CSR thereafter shall be Rs 6.0 Crores per annum or as per CSR guidelines of Govt. of India, whichever is more till the life of the plant.	Noted Compliance assured.
(xxiv)	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Noted Compliance assured.
(xxv)	For proper and periodic monitoring of CSR activities, a CSR committee or a Social Audit committee or a suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final.	Noted Compliance assured.
(xxvi)	An Environmental Cell comprising of at least one expert in environmental science/ engineering, ecology, occupational health and social science, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures. The environmental cell shall also work in close coordination with BHU.	MTE(MP)L have established Environment Management Department with Senior Management at Corporate level. Site Environment Cell will be created once project construction is started.
B	General Conditions:	
(i)	The treated effluents conforming to the prescribed standards only shall be recirculated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.	Plant is designed for zero discharge. Storm Water drainage & Effluent Streams will be separate.
(ii)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt / plantation.	Noted Compliance assured.
(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 team will be established in plant site to take preventive control measures. Fire hydrant system for fire fighting is proposed in plant layout.
(iv)	Storage facilities for auxiliary liquid fuel such as LDO and / HFO / LSHS shall be made in the plant area in consultation with Department of Explosives,	Noted, Compliance assured, once the project takes off.

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	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 made for the drivers and other contract workers during construction phase.	Noted, Compliance assured, once the project take off.
(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 earplugs / ear muffs 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 area.	Noted, Compliance assured. All equipments will be designed and procured to have noise level of less than 85 dB (A) at a distance of 1 m.
(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.	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 vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental 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 Forest at http://envfor.nic.in	Complied Advertised in local daily News Paper 'Hindustan and Dainik Jagran dated 4 th & 5 th September' 2014 respectively which were widely circulated in the region.
(x)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad /	Complied.

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	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.	Copy of clearance letter has been submitted to Gram Panchayat – Dhadhiram, Zila Parishad - Mirzapur and local NGOs ASPI Social Empowerment Society vide letter dated 4/09/2014.
(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 pollutant levels namely; SPM, RSPM (PM2.5 & PM10), SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Noted, Compliance assured, once the project takes off.
(xii)	The environment statement for each financial year ending 31 st March in FormV 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 takes 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 and State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by email to the Regional Office, Ministry of Environment and Forests.	Being complied. Six monthly Environmental Clearance compliance status report is being submitted to MoEF, CPCB and UPPCB.
(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 NO _x (from	Noted Compliance assured

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	stack & ambient air) shall be displayed at the main gate of the power plant.	
(xv)	Separate funds shall be allocated for implementation of environmental protection measures along with item wise breakup. These 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.	Separate funds earmarked for implementation of environmental protection measures for Rs 466.00 crore.
(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 plant.	Noted Financial Closer yet to be achieved and Thermal Power Plant Construction work yet to start
(xvii)	Full cooperation shall 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, Full co-operation shall be extended always..