



सत्यमेव जयते

File No: J-13012/12/2011-IA.II (T)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 23/09/2025



To,

Sh. R N Shukla
M/s. Mirzapur Thermal Energy (UP) Private Limited
Mirzapur Thermal Energy (UP) Private Limited, Adani Corporate House, Shantigram, Near Vaishno
Devi Circle, S. G. Highway, Khodiyar, Ahmedabad 382 421, Gujarat
E-mail: mirzapur.env@gmail.com

Subject: Proposed 2x800 MW Coal based Ultra Super Critical Thermal Power Project (TPP) by M/s. Mirzapur Thermal Energy (UP) Private Limited (MTEUPPL) located at Village Dadri Khurd, Tehsil, Mirzapur Sardar, District Mirzapur, Uttar Pradesh - Environmental Clearance-regarding.

Sir/Madam,

This is with reference to your proposal number IA/UP/THE/542333/2025 Dated 26/06/2025 along with a written submission dated 26.08.2025 seeking for grant of Environmental Clearance (EC) under the provisions of the EIA Notification 2006 and as amended thereof for the project mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25A0601UP5713439N
(ii) File No.	J-13012/12/2011-IA.II (T)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(d) Thermal Power Plants
(vi) Sector	Thermal Projects 2x800 MW Coal based Ultra Super Critical Thermal Power Project (TPP) at Village Dadri Khurd, Tehsil, Mirzapur Sardar, District Mirzapur, Uttar Pradesh by Mirzapur Thermal Energy (UP) Private Limited (MTEUPPL).
(vii) Name of Project	M/s. Mirzapur Thermal Energy (UP) Private Limited
(viii) Name of Company/Organization	Mirzapur, Uttar Pradesh
(ix) Location of Project (District, State)	

(x) Issuing Authority

MoEF&CC

(xi) Applicability of General Conditions as per
EIA Notification, 2006

No

3. M/s. Mirzapur Thermal Energy (UP) Private Limited (MTEUPPL), a subsidiary of Adani Power Limited, has made an online application vide proposal no. IA/UP/THE/542333/2025 Dated 26/06/2025 along with copy of EIA/EMP report, Form and seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above.

4. The proposed project activity is listed at item no. 1(d) Under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level. The project do not attract the provisions of general condition of the EIA Notification, 2006.

5. The instant Proposal was considered by the EAC (Thermal) in its 28th meeting held during 12-13th August, 2025. PP has submitted the written information on 26.08.2025. The MoM for the same may be seen using the following web link: <https://parivesh.nic.in>

Details submitted by the project proponent

6. The Project Site for instant proposal was earlier accorded EC by MoEF&CC vide letter no. J-13012/12/2011-IA.II(T) dated 21.08.2014 and CTE was obtained from UPPCB. The Hon'ble National Green Tribunal vide its judgement dated 21.12.2016 in the matter Appeal No 79 of 2014 titled as Debadityo Sinha vs. Mirzapur Energy (UP) Pvt. Ltd. & Others quashed the EC dated 21.08.2014 and the project could not be implemented further and the validity of the EC got lapsed. Meanwhile, the project was acquired by Mirzapur Thermal Energy (UP) Private Ltd., a subsidiary of Adani Power Limited (APL) and submitted a fresh proposal for grant of EC by de-novo under the provisions of the EIA Notification, 2006.

7. The project by M/s Mirzapur Thermal Energy (UP) Private Limited (MTEUPPL) is located at Village Dadri Khurd, Tehsil Mirzapur Sadar, District Mirzapur, Uttar Pradesh, is for setting up a new power plant with a capacity of 2x800 MW coal-based Ultra Supercritical Technology.

8. Status of installation of Flue Gas Desulphurization shall be furnished as per the MoEF&CC Notification dated 11/07/2025:

i. Categorization details of TPP: M/s. Mirzapur Thermal Power Project Site is located at about 19 Km distance from the Mirzapur town (DM office). The nearest CPA/SPA is Varanasi, at distance of approx. 45.46 Km as per the DSS portal, therefore Mirzapur TPP falls under the Category 'C' as per CPCB categorization with respect to FGD installation.

ii. Sulfur content of the coal to be fired in the boiler: <0.5%

iii. Status of FGD installation for existing unit: Not applicable.

iv. Action plan for installation of new stack in compliance to the notification number GSR 742 (E) dated the 30/08/1990 for the proposed project: As per MoEF&CC notification dated 11.07.2025, 275 m high Chimney (Twin flue) is proposed and proponent will abide by and adhere to all the Notifications/ Directives issued by the MoEF&CC from time to time regarding the TPP.

9. The detail of the ToR is furnished as below:

Proposal No with date	Consideration	Details	Date of accord	ToR Validity
IA/UP/THE/467671/2024 dated 08/05/2024	10 th meeting of EAC- Thermal held on 10.06.2024	Terms of Reference	29.07.2024	28.07.2028

10. Environmental site settings

S. No.	Particulars	Details		Remarks
1.	Total land	365.19 hectare [Private: 333.81 ha; Govt.: 31.38 ha, Agriculture: 0. ha]		
2	Land use break-up	Facilities	Area (in hectares)	In addition to the 365.19 Ha, there is a Forest land Outside the

S. No.	Particulars	Details			Remarks																											
		Main Plant	85.80		Project boundary is 8.3581 Ha which includes water pipeline (5.8162 Ha) and approach road (2.5419 Ha). <i>Stage-I FC letter dated 09.09.2025 for 8.3581 ha of forest land has been submitted.</i> The above approach road connects the project site with SH-5. Hence, the 8.3581 Ha of forest land as mentioned above is considered as a material component of the project as observed in the judgement dated 21/12/2016 of Hon'ble NGT in Appeal No 79 of 2014.																											
		Coal Handling System	64.14																													
		Water System	33.18																													
		Switch Yard	NIL*																													
		Green Belt	121.13																													
		Roads (inside plant)	NIL*																													
		Township	11.57																													
		Ash Pond	49.37																													
		Railway Siding	Not envisaged. Wagon Tippler/ Track hopper facility will be provided within the Plant																													
		Water Supply Pipeline	Water Source from Ganga River and Intake point at Upper Khajuri Dam, about 32.6 Km from Plant boundary																													
		Ash Transport Pipeline	NIL*																													
		Others	NIL																													
		Total	365.19																													
		* Included in main plant area																														
3.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 & 19/02/2025	The land is already in possession with Mirzapur Thermal Energy (UP) Private Limited except 31.38 Ha Govt Land. For 31.38 Ha land transfer and mutation is under progress at Revenue Dept, Vindhyachal Division, District Mirzapur Order No. 19957/2022 dated; 10.10.2024.			Land Documents are submitted along with EC application.																											
4.	Existence of habitation involvement R&R, if any.	<p>Project site: Name of village (if any) – Nil. No R&R.</p> <p>& Study Area:</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Garhawa</td> <td>2.0 Km</td> <td>Northeast</td> </tr> <tr> <td>Ukhdand</td> <td>2.1 Km</td> <td>North of Northwest</td> </tr> <tr> <td>Darhiram</td> <td>2.6 Km</td> <td>Northeast</td> </tr> <tr> <td>Umaria</td> <td>2.1 Km</td> <td>North</td> </tr> <tr> <td>Marihan</td> <td>4.3 Km</td> <td>Southwest</td> </tr> <tr> <td>Dadri Khurd</td> <td>1.36 Km</td> <td>Southeast</td> </tr> <tr> <td>Danti</td> <td>1.0 Km</td> <td>South of Southwest</td> </tr> <tr> <td>Birohiya</td> <td>2.28 Km</td> <td>North</td> </tr> </tbody> </table>			Habitation	Distance	Direction	Garhawa	2.0 Km	Northeast	Ukhdand	2.1 Km	North of Northwest	Darhiram	2.6 Km	Northeast	Umaria	2.1 Km	North	Marihan	4.3 Km	Southwest	Dadri Khurd	1.36 Km	Southeast	Danti	1.0 Km	South of Southwest	Birohiya	2.28 Km	North	R&R is not involved.
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5	Existence of school and hospital if any.	<p>A. School</p> <p>Project site: NIL</p> <p>Study Area: As Below</p> <table border="1"> <thead> <tr> <th>School</th> <th>Distance (Km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Ordial Institute Campus - Private educational institution, Danti,</td> <td>1.35</td> <td>SSW</td> </tr> <tr> <td>Rajkiya Ashram Paddhati Balika Vidhyalaya, Danti,</td> <td>2.4</td> <td>S</td> </tr> <tr> <td>Prathmik Vidyalaya- Umariya</td> <td>2.8</td> <td>NNE</td> </tr> </tbody> </table>			School	Distance (Km)	Direction	Ordial Institute Campus - Private educational institution, Danti,	1.35	SSW	Rajkiya Ashram Paddhati Balika Vidhyalaya, Danti,	2.4	S	Prathmik Vidyalaya- Umariya	2.8	NNE																
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S. No.	Particulars	Details			Remarks
		B. Hospital Project site: NIL Study Area: As Below			
		School	Distance (Km)	Direction	
		CHC Marihan, Mirzapur - Government Hospital.	4.6	SSE	
6.	Latitude and Longitude of all corners of the project site.	A. Plant site			
		Point	Latitude	Longitude	
		1	24°59'43.10"N	82°41'1.32"E	
		2	24°59'15.67"N	82°40'48.65"E	
		3	24°59'16.22"N	82°40'32.70"E	
		4	24°59'0.36"N	82°40'31.30"E	
		5	24°58'59.94"N	82°40'21.69"E	
		6	24°58'43.86"N	82°40'21.29"E	
		7	24°58'44.48"N	82°40'0.15"E	
		8	24°58'34.88"N	82°39'59.91"E	
		9	24°58'34.59"N	82°40'10.54"E	
		10	24°58'27.30"N	82°40'8.78"E	
		11	24°58'14.57"N	82°39'55.42"E	
		12	24°58'6.36"N	82°39'44.21"E	
		13	24°58'23.71"N	82°39'48.52"E	
		14	24°58'25.44"N	82°39'50.05"E	
		15	24°58'33.97"N	82°39'46.94"E	
		16	24°58'37.62"N	82°39'47.94"E	
		17	24°58'39.68"N	82°39'45.63"E	
		18	24°58'48.52"N	82°39'44.25"E	
		19	24°59'0.89"N	82°39'49.86"E	
		20	24°59'12.52"N	82°39'57.77"E	
		21	24°59'36.31"N	82°39'57.84"E	
		22	24°59'42.80"N	82°39'55.48"E	
		23	24°59'48.80"N	82°40'4.67"E	
		24	24°59'53.60"N	82°40'2.03"E	
		25	24°59'56.49"N	82°40'9.78"E	
		26	25° 0'1.35"N	82°40'14.57"E	
		27	25° 0'6.56"N	82°40'17.38"E	
		28	25° 0'4.58"N	82°40'23.19"E	
		29	25° 0'9.45"N	82°40'25.50"E	
		30	25° 0'10.07"N	82°40'24.11"E	
		31	25° 0'14.85"N	82°40'26.43"E	
		32	25° 0'14.09"N	82°40'28.29"E	
		33	25° 0'15.05"N	82°40'28.98"E	
		34	25° 0'9.57"N	82°40'42.06"E	
		35	25° 0'10.76"N	82°40'42.96"E	
		36	25° 0'4.33"N	82°40'49.13"E	
		37	25° 0'0.20"N	82°40'46.22"E	
		38	24°59'58.98"N	82°40'51.13"E	
		39	24°59'57.20"N	82°40'50.02"E	
		40	24°59'54.74"N	82°40'55.39"E	

S. No.	Particulars	Details			Remarks
		41	24°59'49.00"N	82°40'51.94"E	
		42	24°59'45.52"N	82°40'55.23"E	
		43	24°59'43.90"N	82°40'53.55"E	
		B. Ash pond			
		Point	Latitude	Longitude	
		A	24°59'52.57"N	82°40'18.16"E	
		B	25° 0'5.61"N	82°40'18.27"E	
		C	25° 0'4.65"N	82°40'23.03"E	
		D	25° 0'9.40"N	82°40'25.52"E	
		E	25° 0'10.13"N	82°40'24.16"E	
		F	25° 0'14.84"N	82°40'26.44"E	
		G	25° 0'14.10"N	82°40'28.34"E	
		H	25° 0'15.10"N	82°40'29.03"E	
		I	25° 0'9.56"N	82°40'42.06"E	
		J	25° 0'10.73"N	82°40'42.99"E	
		K	25° 0'4.36"N	82°40'49.10"E	
		L	25° 0'0.20"N	82°40'46.18"E	
		M	25° 0'0.13"N	82°40'49.58"E	
		N	24°59'58.97"N	82°40'51.13"E	
		N	24°59'57.17"N	82°40'50.05"E	
		O	24°59'54.77"N	82°40'55.43"E	
		P	24°59'52.43"N	82°40'53.24"E	
7.	Elevation of the project site	Minimum: 169 m AMSL Maximum: 214 m AMSL Average: 193 m AMSL			
8.	Involvement of Forest land if any.	No forest land is involved within Project /Plant Area. NOC regarding non-involvement of forest land has been issued by Forest Office Mirzapur vide letter no. 4229/Mirzapur/15 dated 30.05.2025.			However, Forest land Outside the Project boundary is 8.3581 Ha which includes water pipeline (5.8162 Ha) and approach road (2.5419 Ha). Stage-I FC letter dated 09.09.2025 for 8.3581 ha of forest land has been submitted.
9.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	Project site: Nil Study area:			
		S.No	Particulars	Distance (km)	Direction
			Unnamed Seasonal Nala	Adjacent to the site	W
		1	Seasonal Nala		
		2	Jogldari Nala	1.9	SE
		3	Jamthwa Nadi	2.2	WSW
		4	Pahiti Nadi	3.6	NNE
		5	Kuardari Nadi	6.0	W
		6	Amjhar Nala	6.4	WSW
		7	Upper Khajuri Dam	6	W
		8	Dhenkwan Dam	6.2	E
		9	Imiliya Bandhwa	9.82	E
		*Source: - All distances are taken with respect to S.O.I.			

S. No.	Particulars	Details	Remarks																																																																				
		<i>Toposheet, which is pertinent to this project.</i>																																																																					
10.	Existence of ESZ/ESA/national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. if any within the study area	<p>Study area Name of the ESZ/ESA: Nil Status of Notification: NA Distance of project from ESZ/ESA: NA Authenticated map of ESZ projecting distance of ESZ from project site: NA Status of NBWL approval: NA List List of Reserved and Protected Forests:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Particulars</th> <th>Distance (km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Mirzapur RF</td> <td>Adjoining</td> <td>SE</td> </tr> <tr> <td>2</td> <td>Danti RF</td> <td>Adjoining</td> <td>N</td> </tr> <tr> <td>3</td> <td>R.F. (Lodhpur)</td> <td>4.0</td> <td>NE</td> </tr> <tr> <td>4</td> <td>Patehra RF</td> <td>5.6</td> <td>SW</td> </tr> <tr> <td>5</td> <td>Sarson R.F.</td> <td>5.6</td> <td>SE</td> </tr> <tr> <td>6</td> <td>Dhanuhaw Pahar</td> <td>5.8</td> <td>ESE</td> </tr> <tr> <td>7</td> <td>Chacdlewakhurd R.F.</td> <td>6.8</td> <td>NE</td> </tr> <tr> <td>8</td> <td>Danti R.F.</td> <td>6.9</td> <td>NW</td> </tr> <tr> <td>9</td> <td>Karaunda R.F.</td> <td>6.9</td> <td>WSW</td> </tr> <tr> <td>10</td> <td>Malua R.F.</td> <td>7.5</td> <td>SW</td> </tr> <tr> <td>11</td> <td>Purainiyan R.F.</td> <td>7.0</td> <td>SE</td> </tr> <tr> <td>12</td> <td>Golhanpur R.F.</td> <td>7.0</td> <td>E</td> </tr> <tr> <td>13</td> <td>R.F. (Atraura)</td> <td>8.1</td> <td>N</td> </tr> <tr> <td>14</td> <td>Matihani R.F.</td> <td>9.0</td> <td>ESE</td> </tr> <tr> <td>15</td> <td>Patehar R.F.</td> <td>9.2</td> <td>WSW</td> </tr> <tr> <td>16</td> <td>Barkachhar R.F.</td> <td>9.8</td> <td>NW</td> </tr> </tbody> </table> <p>No National Park, Sanctuary, Elephant/Tiger Reserve, or migratory routes/wildlife corridor exists within 10 km of the TPP.</p>	S. No.	Particulars	Distance (km)	Direction	1	Mirzapur RF	Adjoining	SE	2	Danti RF	Adjoining	N	3	R.F. (Lodhpur)	4.0	NE	4	Patehra RF	5.6	SW	5	Sarson R.F.	5.6	SE	6	Dhanuhaw Pahar	5.8	ESE	7	Chacdlewakhurd R.F.	6.8	NE	8	Danti R.F.	6.9	NW	9	Karaunda R.F.	6.9	WSW	10	Malua R.F.	7.5	SW	11	Purainiyan R.F.	7.0	SE	12	Golhanpur R.F.	7.0	E	13	R.F. (Atraura)	8.1	N	14	Matihani R.F.	9.0	ESE	15	Patehar R.F.	9.2	WSW	16	Barkachhar R.F.	9.8	NW	
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11.	Archaeological sites/monuments/historical temples etc.	There are no Archaeological sites present within study area.																																																																					
12.	Facility envisaged in CRZ area (Only for coastal power plant)	Name of the facility in CRZ area – Nil Recommendations of CZMA – NA Status of CRZ clearance – NA																																																																					
13.	Involvement Of Critically Polluted Area/Severely Polluted area as per 2018 CEPI score	Involvement of CPA/SPA: Nil Proximity to CPA/SPA: - Nil																																																																					

11. The unit configuration and capacity of proposed project is given as below:

S. No.	Existing power plant configuration and capacity	Proposed power plant configuration and capacity	Total	Technology adopted
1	Nil	1600 (2x800) MW	1600 MW	Ultra Super Critical

12. The details of the fuel (Coal/LDO) requirement for the proposed project/ expansion cum proposed project along with its source and mode of transportation is given as below:

Details	Fuel requirement (MTPA)	Source	Distance from site (Kms)	Mode of Transportation	Coal characteristics (Worst case scenario)	Linkage document
Coal	6.4 (85% PLF)	Coal Mines of NCL / SECL / CCL & Commercial Coal Mines and e-auction.	Approx 200 Km	Rail	Ash <40 (%) Sulphur <0.50 (%) Moisture-13 (%) GCV - 3200-4300 Kcal/Kg	FSA and E-auction
LDO/ HSD	15000 KL per Annum	Local Market/Vendors	Approx. 40 Km	Road	Low Sulphur (3-5% mass)	Local Vendors

13. **Water requirement:** The water requirement for the proposed project is estimated as 76,800 m³/day, out of which 76,800 m³/day of fresh water requirement will be met from the Ganga River. The Permission for drawl of surface water is obtained from WRD Uttar Pradesh for 36 MCM/Year (98,630 m³/day) vide letter no. 3613/11-27-C.0-4-174/11 dated 09.10.2011. The water will be transported to the plant site through the pipeline. The specific water consumption for the proposed power plant will be <2.5 m³/MWhr.

14. **Power requirement:** The power requirement for the proposed project is estimated as 7.5 MW during Construction Phase and will be obtained from nearby UP Electricity Board Sub-station.

15. Baseline Environmental Studies

Period	October' 2024 to December 2024			Additional study (if any)
AAQ parameters at 11 Locations (min and max)	Parameter	Min (µg/m ³)	Max (µg/m ³)	DSS
	PM _{2.5}	22	41	
	PM ₁₀	48	69	
	SO ₂	4.7	10.5	
	NO _x	3.7	11.8	
	CO	0.04	0.454	
Incremental GLC level	Parameter	Maximum GLC		DSS
	PM ₁₀ (g/m ³)	0.323 at 550 meters downwind		
	PM _{2.5} (g/m ³)	0.084 at 550 meters downwind		
	SO ₂ (g/m ³)	7.74 at 550 meters downwind		
	NO _x (g/m ³)	6.33 at 550 meters downwind		
Note: <ul style="list-style-type: none"> High Efficiency Electrostatic Precipitator (ESP) is proposed to install to meet PM emission as per the norms. For SO₂, 275m high Chimney is proposed. MoEFCC Notification dated 11.07.2025 shall be followed. SCR/SOFA with low NO_x burner to meet NO_x emission as per the norms. 				
Ground water quality at 19 locations	pH: 6.69 to 7.79, Total Hardness (as CaCO ₃): 98 mg/l – 178 mg/l; Chlorides: 54 mg/l to 90 mg/l, Fluoride: BDL (DI-0.1) mg/l, Heavy metals like Copper (as Cu) - BLQ(LOQ-0.01), Lead (as Pb) - BLQ (LOQ- 0.005), Cadmium (as Cd) - BLQ(LOQ-0.002), Chromium (as Cr) - BLQ (LOQ-0.02), Arsenic (as As) - BLQ (LOQ-0.005) and Mercury (as Hg)-BLQ(LOQ-0.001).			
Surface water quality at 07 locations	pH 7.26 to 7.75, Dissolved Oxygen (DO): 4.9 to 7.3 mg/l and BOD: 4- 8 mg/l. COD from 10 to 23 mg/l			
Effluent generation details and its treatment	Wastewater generation from TPP about 1080 KLD Mode of treatment & reuse – The wastewater will be treated in ETP 1200 KLD (Neutralization & Equalization) and treated wastewater will be utilized			The project is based on Zero Liquid Discharge (ZLD).

Period	October' 2024 to December 2024		Additional study (if any)																	
	within the plant to achieve Zero Liquid discharge. · Domestic wastewater generation will be 8 KLD – Domestic wastewater will be treated through STP 10 KLD (MBBR Technology). · Mode of treatment & reuse - Treated water will be utilized for greenbelt and plantation purpose.																			
Noise levels Leq (Day and Night) at 11 locations	The Leq values for day time was observed to be 52.3 to 49.2 dB (A), while during night time 44.0 to 40.2 dB (A).																			
Traffic assessment study findings	Traffic study has been conducted for one month. · Traffic study has been conducted at State Highway-5 which is at an aerial distance of about 1km towards WSW. · Transportation of coal will be done by Rail. · The PCU is 525.5 PCU/day on State Highway-5 and level of service (LOS) is A.																			
	<table border="1"> <thead> <tr> <th>Road</th> <th>Volume (in PCU/Day)</th> <th>Capacity (in PCU/Day)</th> <th>Existing V/C Ratio</th> <th>LOS</th> <th>Performance</th> </tr> </thead> <tbody> <tr> <td>SH-5</td> <td>525.5</td> <td>15000</td> <td>0.035</td> <td>A</td> <td>Excellent</td> </tr> </tbody> </table>		Road	Volume (in PCU/Day)	Capacity (in PCU/Day)	Existing V/C Ratio	LOS	Performance	SH-5	525.5	15000	0.035	A	Excellent						
Road	Volume (in PCU/Day)	Capacity (in PCU/Day)	Existing V/C Ratio	LOS	Performance															
SH-5	525.5	15000	0.035	A	Excellent															
	PCU load after proposed project: <table border="1"> <thead> <tr> <th rowspan="2">Road</th> <th rowspan="2">Existing LOS</th> <th colspan="4">Changed V/C and LOS after adding generated traffic from operational phase of proposed project</th> </tr> <tr> <th>V</th> <th>C</th> <th>V/C</th> <th>Modified LOS</th> </tr> </thead> <tbody> <tr> <td>S.H.-5</td> <td>A 'Excellent'</td> <td>525.5 + 762 = 1287.5</td> <td>15000</td> <td>0.08</td> <td>A 'Excellent'</td> </tr> </tbody> </table>		Road	Existing LOS	Changed V/C and LOS after adding generated traffic from operational phase of proposed project				V	C	V/C	Modified LOS	S.H.-5	A 'Excellent'	525.5 + 762 = 1287.5	15000	0.08	A 'Excellent'		
Road	Existing LOS	Changed V/C and LOS after adding generated traffic from operational phase of proposed project																		
		V	C	V/C	Modified LOS															
S.H.-5	A 'Excellent'	525.5 + 762 = 1287.5	15000	0.08	A 'Excellent'															
	· Conclusion: The level of service will be A after including additional traffic due to the proposed project.																			
Soil Quality at 11 Locations	pH range 7.81 to 8.12; Electrical conductivity (EC); 174 to 184 mhos/cm; Calcium: 198 to 274 mg/kg; Sodium:67 to 97 mg/kg; potassium: 88 to 162 /kg/ha; Nitrogen: 10.3 to 11.3 kg/ha; Phosphorous: 11.4 to 13.5 mg/kg; Cation Exchange Capacity (CEC): 2 to 2.6 meg/100gm; Magnesium: 24 to 134 mg/kg; Organic Matter: 0.80% to 0.89 %																			
Flora and fauna	22 Schedule I Species found in the buffer zone during field survey and secondary sources. Out of 22 Schedule I Species, 10 are mammals, 6 are avifauna and 6 herpeto-fauna.		Certified list of Flora & Fauna is received from DFO Mirzapur vide letter no. 4226/Mirzapur/15 dated 30.05.2025. Wildlife Conservation Plan has been prepared and submitted for further approval to the State Forest department.																	
Hydrogeology study	The action plan to address the recommendation of the Hydrogeology report and Watershed management plan are as below: <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Recommendations</th> <th>Action Plan</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Since the TDS value in W-13 well was slightly above the acceptable</td> <td>Water quality monitoring shall be done once a month through NABL</td> </tr> </tbody> </table>		Sl. No.	Recommendations	Action Plan	1	Since the TDS value in W-13 well was slightly above the acceptable	Water quality monitoring shall be done once a month through NABL	Consultant details: The hydrogeology study report has been prepared by M/s. Akshar Geo Services Pvt. Ltd & Vetted by NIT Delhi.											
Sl. No.	Recommendations	Action Plan																		
1	Since the TDS value in W-13 well was slightly above the acceptable	Water quality monitoring shall be done once a month through NABL																		

Period	October' 2024 to December 2024		Additional study (if any)
	TDS limit, it is recommended to monitor that the TDS levels in the discharged water meet regulatory requirements to prevent any negative environmental impact from the plant's operations	accredited laboratory to monitor TDS Level.	
2	As the value of hardness as CaCO ₃ in W-1 groundwater sample was found to be above acceptable limit but within the permissible limit, a need for ongoing monitoring and potential remediation efforts can be suggested in the report.	Water quality monitoring shall be done once in a month engaging NABL accredited laboratory to track hardness as CaCO ₃ content and corrective/preventive actions will be taken based on findings in the report.	
3	By reviewing the report, it was found that the value of Calcium at W-1 groundwater sample was found to be above acceptable limit but within permissible limits which may result in encrustation, the plant may take some preventive measures accordingly.	Regular monitoring of groundwater quality, particularly calcium concentration, will be conducted once a month through NABL accredited laboratory to monitor Calcium Level. Periodic maintenance and descaling of pipelines, storage systems, and water-handling equipment will be done.	
4	The maximum value of alkalinity at W-13 groundwater sample falls above the 'acceptable limit' as per Indian Drinking Water Standards 10500:2012. It is recommended to suggest some preliminary treatment measures for ensuring operational efficiency of the plant.	Mirzapur TPP will initiate a routine water quality monitoring program, with monthly sampling and analysis of alkalinity and associated parameters through NABL accredited laboratory and corrective/preventive actions will be taken based on findings in the report. In addition to above, Mirzapur TPP shall be using Surface water and ZLD will be Implemented	
Impact study on biodiversity and aquatic ecology	<p>Recommendations of study report:</p> <ul style="list-style-type: none"> · Wildlife Protection: Launch anti-poaching and forest protection measures; set up wildlife camps with communication tools · Habitat Restoration: Implement soil and moisture conservation, afforestation with native species, and green belt development · Species Conservation: Develop targeted plans for Schedule-I species like Felis chaus, Hyaena hyaena, Melursus ursinus, and others found in the buffer zone · Community Engagement: Promote eco-clubs, green brigades, and alternative livelihoods to reduce forest dependence · Budget Allocation: 148.02 Lakhs over 5 years for habitat management, fire control, awareness, and capacity building 		Indian Institute of Social Welfare and Business Management, University of Calcutta in 2025.
Risk assessment study	<p>Project specific risk assessment with respect to storage of LDO, furnace oil & coal storage and other hazardous chemicals is included in Final EIA-EMP Report.</p> <p>The appropriate preventive measures and necessary safeguards such as toxic and flammable gas detectors, alarm / interlock systems, breathing apparatus for</p>		Gaurang Environmental Solutions Pvt Ltd.

Period	October' 2024 to December 2024	Additional study (if any)
	working personnel, fire protection systems such as fire extinguishers, water curtain, fire water hydrants in place, the untoward consequences and the major risk due to the same could be eradicated.	
Marine Impact Assessment Study	Not Applicable	--

16. The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity generated (TPA)	Mode of Treatment	Disposal	Remarks
1	Municipal Solid Waste	Plant Canteen	70.08 TPA	Collected; segregated using color coded waste bin, Organic waste converters (OWC)	Inorganic will be disposed via local municipal authorized vendor & Organic/Biodegradable waste by OWC.	-
2	E-waste	IT & Telecom Equipment	~2.0 TPA	Collected; segregated	Registered Recycler vendor	
3	Battery waste from UPS	Automotive & Industrial	~3 TPA	Collected; segregated	Authorized Vendor	
4	Bio medical waste	First aid center	0.02 TPA	Collected; segregated	Authorized vendor	
5	Hazardous Waste	Plant Operation	Used/ Spent Oil – 60 TPA, Waste or residues Empty Barrels/ Containers/ Contaminated Liners – 12 TPA containing oil – 10.0 TPA		Registered Recyclers/Pre-processors with SPCB & Authorized Recyclers	

17. **Public Consultation:** The public hearing was conducted on 11.04.2025 at Near Upper Primary School, Madihaan Market, Madihaan Tehsil and District Mirzapur (U.P).

• Details of advertisement given	1. The Indian Express dated 07.03.2025 2. Amar Ujala dated 07.03.2025
Date of public consultation	Date: 11.04.2025, Thursday, 11:00 AM onwards
Venue	Near Upper Primary School, Madihaan Market, Madihaan Tehsil and District Mirzapur.
Presiding Officer	1. Sri S.P Shukla, Additional District Magistrate, Mirzapur 2. Sri R.K Singh, Regional Officer, U P. Pollution Control Board, Sonbhadra
Major issues raised	During the public hearing, stakeholders 100% supported the project, recognizing its potential to catalyze regional development. Key suggestions included giving priority in employment to local residents, supporting educational infrastructure (including smart classrooms), and addressing drinking water concerns through borewell installations. The public also appreciated the company's initiatives in community health, sports, and infrastructure, and requested their continuation.
No. of people attended	About 1600 People were present. · 14 No. Verbal representation · 50 No. Written Representation/ Responses received from local people/villagers

As per the Public hearing minutes, about 1600 nos. of people attended the public hearing and about 720 people signed the attendance register.

Summary of needs highlighted during the public consultation:

Category	Key Concerns Raised	Responses Provided
Local Development	During the public hearing, the public was in full support for the proposed Project	We have assured the public that 'development will be done in the project area on priority basis through CER/CSR activities
Employment	Employment Opportunity	The company is committed to providing preference to locals based on their educational qualification and experience. MTEUPPL through Adani foundation proposes to focus on development of the project area in the following areas under the Socio-EMP (CER) initiative. Education Community Health & Sustainability Livelihood Development.

Action plan as per MoEF&CC O.M. dated 30/09/2020 to address the concerns of public consultation:

S. No	Physical activity and action Plan	Year of implementation (Rs. In Crores)					Budget (in Crores)
		25-26	26-27	27-28	28-29	29-30	
A	Educational Initiatives						
	Modernization, Repair & construction/maintenance of identified Primary / Higher Secondary School of nearby villages of the project site in consultation with Local Government/School Authorities in villages Dadri Khurd & Madihan.	0.5	0.75	0.75	0.75	0.75	3.50
	Distribution of drinking water filters/Drinking water coolers in schools in nearby villages.	0.35	0.35	0.35	0.35	0.35	1.75
	Basic teaching and learning infrastructure support to Govt. Schools, Supporting in creation of assembly halls, prayer halls, classrooms and smart class, computer room, space for mid-day meals, playground, school boundary walls etc. for government schools in villages Kotwa Pandey, Sukhnai, Devari Kalan.	0.5	0.75	0.75	0.75	0.75	3.50
	Providing scholarships to meritorious students	0.23	0.23	0.23	0.23	0.23	1.15
	Online courses for students in emerging technologies such as Artificial Intelligence, Electric Vehicles, Renewable Energy etc. to equip students with job-ready skills through Adani Skill Development Centre (ASDC).	0.25	0.25	0.25	0.25	0.25	1.25
	Sub Total	1.6	2.35	2.6	2.6	2.6	11.75
B	Community Health Initiatives						
	Providing assistance for the construction & operation of Primary Health Centre equipped with necessary facilities and other health centers in Village Patewar & other nearby villages of MTEUPPL in consultation with local	0.50	0.75	0.95	1.00	1.00	4.20

S. No	Physical activity and action Plan	Year of implementation (Rs. In Crores)					Budget (in Crores)
		25-26	26-27	27-28	28-29	29-30	
	government authorities.						
	Rural Medical Camps through Medical Team of Primary Health Centre , Safe Menstrual Hygiene Management Awareness, Mega Health Camp, Cataract Screening & Operation in nearby villages of MTEUPPL.	0.40	0.80	0.80	0.5	0.5	3.00
	Promotion of awareness of malnutrition and anemia, Safe Menstrual Hygiene Management Awareness, Mega Health Camp, Cataract Screening & Operation in Madihan and nearby villages. Sanitary napkin vending & disposal machine, provision of Girls' Toilets with regular water supply facilities.	0.12	0.12	0.12	0.62	0.62	1.60
	Promotion of Poshan Vatika at backyard of villagers & Project Suposhan.	0.34	0.34	0.34	0.34	0.34	1.70
	Sub Total	1.36	2.01	2.21	2.46	2.46	10.50
C	Sustainable Livelihood and Women Empowerment						
	Skill Development Centre (SDC) to make the youth for achieving their Goals in life by becoming Skilled Professionals.	0.40	0.80	0.80	0.90	0.90	3.80
	Development & Support for Drip irrigation, assistance for mushroom, vegetable cultivation and livestock management in core zone villages.	0.37	0.37	0.37	0.37	0.37	1.85
	Sub Total	0.77	1.17	1.17	1.27	1.27	5.65
D	Community Infrastructure Development						
	Repairing, strengthening & Maintenance of Existing Roads in consultation with Gram Panchayats.	0.50	1.50	1.50	1.75	0.50	5.75
	To provide facility for potable drinking water, and water supply system through overhead tanks	0.20	0.20	0.20	0.20	0.20	1.00
	Creation of clean and hygienic environment by proper drainage systems, community sanitation campaign, waste management awareness etc. implementation of Swachhh Bharat Initiative.	0.30	0.30	0.40	0.40	0.35	1.75
	Upgradation & Renovation of sanitation facilities such as toilets in schools with priority for girls.	0.70	0.70	0.70	0.70	0.70	3.50
	Provision of solar street lighting/panels in nearby schools, local health centers of nearby villages, green nurturing programs, plantation drives etc.	0.51	0.51	0.51	0.51	0.51	2.55
	Sub Total	2.21	3.21	3.31	3.56	2.26	14.55
E	Sports & Culture Development						
	Promotion of sports for youths and women	0.25	0.25	0.25	0.25	0.25	1.25
	Cultural activities for villagers	0.16	0.16	0.16	0.16	0.16	0.80
	Sub Total	0.41	0.41	0.41	0.41	0.41	2.05
F	Tree plantation in Govt. School and Community Health Centre in Villages Garhwa, Ukhdanda & Darhi Ram	0.20	0.60	0.40	0.40	0.40	2.00

S. No	Physical activity and action Plan	Year of implementation (Rs. In Crores)					Budget (in Crores)
		25-26	26-27	27-28	28-29	29-30	
	Sub Total						
	Total Budget	6.55	9.75	10.1	10.7	9.4	46.50

18. Project cost: The capital cost of the proposed project is Rs. 18300 Crores and the capital cost for environmental protection measures is proposed as Rs.3012.39 Crores (Excluding cost towards addressal of Public Consultation issues). The annual recurring cost towards the environmental protection measures is proposed as Rs.32.12 Crores (Excluding cost towards addressal of Public Consultation issues). The employment generation from the proposed project (Operational Phase) is Permanent: 250, Contractual: 2600. The details of cost for environmental protection measures as follows:

S. No.	Item Description	EMP Cost (Rs. in Crores)	Recurring Cost (Rs. in Crores)
1	Air Pollution Control	2459.04	24.59
2	Noise Control	3.54	0.224
3	Water Pollution Control (Including RWH +Solar)	261.3	0.06
4	Ash Management	254.88	5.0
5	Environmental Monitoring & Management	21.83	0.25
6	Green Belt Development	11.80	2.0
7	Addressal of Public Consultation issues	46.5	4.65
	Total	3058.89	36.77

19. Greenbelt Development: The proposed Greenbelt will be developed in 121.13 ha area which is about ~33.16 % of the total project area of 365.19 ha with total sapling of 302825 nos. A 10m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total number of 302825 saplings will be planted and nurtured in 121.13 ha in 5 years. The Capital Budget of 11.8 Crores and recurring budget is 2.0 Crores is earmarked for Greenbelt development.

20. Ash management

Details	Annual generation (MTPA)	Utilization (MTPA)	% of utilization	Balance quantity (MTPA)	No. of storage silos with capacity
Ash (Fly & Bottom)	2.56	2.56	100	0	6 x 2500MT

Ash Pond details: -

S.No.	Details of Ash Pond	Ash pond
1.	Area (Ha)	49.37 Ha
2.	Dyke height (m)	15
3.	Volume (m ³)	74 Lac m ³
4.	Quantity of ash to be disposed (Metric Tons)	88.8 Lac MT
5.	Expected life of ash pond (number of years and months)	Capacity/life of ash dyke calculated for 20 years
6.	Type lining carried in ash pond: HDPE lining of LDPE lining or clay lining or No lining	HDPE
7.	Mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD)	HCSD / MCSD
8.	Ratio of ash: water in slurry mix (1:):	65 :35
9.	Ash water recycling system (AWRS): Yes or No	Yes
10.	Quantity of wastewater from ash pond to be discharged into land or water body (m ³)	0
11.	Details regarding dyke stability study and name of the organization who conducted the study:	N.A

TPP has proposed 100% Ash Utilization. However, approx. 5% may be diverted to the ash dyke in emergencies such as during rains or low demand—as a contingency measure, Life of ash dyke is calculated 20 Years.

Ash utilization plan –

S. No.	Activity (as applicable)	Quantity	Percentage
i	Fly ash based products (bricks or blocks or tiles or fiber cement sheets or pipes or boards or panels)	0.05	2%
ii	Cement manufacturing	2.05MTPA	80%
iii	Construction of roads, road and fly over embankment	0.46 MTPA	18%
Total		2.56 MTPA	100 %

21. Summary of violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration is furnished as below:

A. Summary of court cases : Details of Cases pertaining to Environment & Forest are as below:

S. No.	Case no.	Name of The Court	Brief Summary of the Case	Last Date of Hearing	Next Date of Hearing	Action taken by PP
1	29/2024 In appeal no-79/2014	National Green Tribunal	In December' 2016, NGT judgement set aside the EC of the 1320 MW TPP at Mirzapur and vide their judgment in May'2017, that Project proponent is at liberty to approach the MoEFCC or any other competent authority for processing of the applications for grant of EC upon making up for rectifying the defects and deficiencies pointed out in the judgment. However, the authorities concerned are at liberty to process the same in accordance with law while strictly adhering to the content of the judgment.	21.12.2016	Disposed off	The Suggestions in the Order as well MoEFCC, proponent has taken all the adequate measures to comply.
2	883/2024	National Green Tribunal	Hon'ble National Green Tribunal has taken suo motu cognizance of the news item "Experts flag large-scale clearing of vegetation in Mirzapur forest" published in Hindustan Times on 03.07.2024 and has registered Original Application No. 883/2024 and started hearing. Hon'ble NGT has made "Mirzapur Thermal Energy (U.P.) Private Limited" as Respondent No. 5 by order dated 25/10/2024.	21.07.2025	Disposed of on 18/08/2025	The matter got disposed of on 18/08/2025 as the petitioner has filed IA No. 188063 of 2025 filed in W.P. (C) No. 202/1995 and sought for directions from the Hon'ble Supreme Court to declare the proposed Sloth Bear Conservation Reserve in Mirzapur District, Uttar Pradesh, as a Protected Area under the Wildlife (Protection) Act, 1972.
3	Execution Application no-29/2024 In appeal no-79/2014	National Green Tribunal	According to the appellant, by NGT order dated 21/12/2016 in Appeal No. 79/2014, the Environmental Clearance (EC) dated 21.08.2014 granted to the proposed Thermal Power Plant of Welspun Energy Private Limited was	21.07.2025	-do-	-do-

S. No.	Case no.	Name of The Court	Brief Summary of the Case	Last Date of Hearing	Next Date of Hearing	Action taken by PP
			cancelled, and the Tribunal passed an order restraining respondent No. 4, M/s Welspun Energy (UP) Private Limited, from carrying out any development work at the project site and to restore the area to its original condition. Mirzapur Energy (UP) Private Limited was carrying out illegal construction activities at the site by clearing vegetation and forest and levelling the land using large-scale earthwork. An application for ex-parte interim order has been filed by the appellant. Next Listing date fixed on 12.08.2025			

As per the available records, W.P. (C) No. 202/1995 is next posted for hearing in the Hon'ble Supreme Court on 23/09/2025.

B. Summary of Show Cause Notices – Nil

S. No	Issuing authority	Date	Reasons for the issuance of SCN	Status of reply submission	Present status
1	Not Applicable.				

C. Summary of violation

Any violation case pertaining to the project on following: i. The Environment Protection Act, 1986 ii. Van (Sanrakshan Evam Samvardhan) Adhinyam, 1980. iii. The Wildlife (Protection) Act, 1972	No.
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22. **Written submissions:** The written submission made by the proponent during the meeting is furnished as below:

S.No	Additional Information Sought	Pointwise Reply/ Clarification
1	Compliance Status of the key issues Addressed in the NGT Order dated 21.12.2016.	The Compliance Status of key Issues Addressed in the NGT Order dated 21.12.2016 is furnished at para no. 28.4.17.
2	Point wise response to Written representations received through MoEFCC mail to be submitted.	The point wise response towards Written representations received from MoEFCC by Email is furnished at para no. 28.4.19.
3	Justification regarding categorization of TPP in terms of MoEFCC Notification dated 11/07/2025.	Mirzapur Thermal Power Plant is located about 19 KM distance from the Mirzapur Town/City (DM office). The nearest CPA/SPA is Varanasi, distance is about 45.46 Km as per the DSS portal, therefore Mirzapur TPP falls under the "Category C" as per MoEFCC Notification dated 11.07.2025.
4	The present status of Stage-I Forest Clearance to be provided.	8.3581 Ha of Forest Land is Outside the Plant Boundary for which Forest Proposal Application was filed in 2015 vide proposal no. FP/UP/THE/14236/2015. Stage-I FC is obtained on dated 09.09.2025.
5	The GLC modelling has to be revisited.	The revised GLC Modelling report is furnished as above.

Observations and deliberation of the EAC

23. The Committee observed and noted the following:

i. Instant proposal is for seeking Environmental Clearance for setting up of 2x800 MW Coal based Ultra Super Critical Thermal Power Project (TPP) by M/s Mirzapur Thermal Energy (UP) Private Limited (MTEUPPL) located at Village Dadri Khurd, Tehsil, Mirzapur Sardar, District Mirzapur, Uttar Pradesh.

ii. The Project Site for instant proposal was earlier accorded EC by MoEF&CC on 21.08.2014 and CTE was obtained from UPPCB. The Hon'ble National Green Tribunal vide its judgement dated 21.12.2016 in the matter Appeal No 79 of 2014 titled as Debadityo Sinha vs. Mirzapur Energy (UP) Pvt. Ltd. & Others quashed the EC dated 21.08.2014 and the project could not be implemented further and the validity of the EC got lapsed. Meanwhile, the project was acquired by Mirzapur Thermal Energy (UP) Private Ltd., a subsidiary of Adani Power Limited (APL) and submitted a fresh proposal for grant of EC by de-novo under the provisions of the EIA Notification, 2006.

iii. The EAC also took into consideration the drone survey of the project site and KML file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH portal.

iv. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site as ascertained from DSS.

v. The project site is not located within the Critically Polluted Area (CPA) / Severally Polluted Area (SPA) as per CEPI assessment 2018 of CPCB.

vi. As per the categorization of CPCB, the proposed project do not fall within any CPA nor in any non-attainment cities as per MoEF &CC notification G.S.R. 465(E) dated 11/07/2025. Hence, it is classified as Category 'C' project with respect to FGD installation.

vii. ToR was granted vide letter dated 29.07.2024.

viii. Total land of 365.19 ha is required for the project. The land is already in possession with Mirzapur Thermal Energy (UP) Private Limited except 31.38 Ha Govt Land. For 31.38 Ha land transfer and mutation is under progress at Revenue Dept, Vindhychal Division, District Mirzapur Order No. 19957/2022 dated 10.10.2024.

ix. In addition to the 365.19 Ha, there is a Forest land Outside the Project boundary is 8.3581 Ha which includes water pipeline (5.8162 Ha) and approach road (2.5419 Ha). The said approach road connects the project site with SH-5. Hence, the 8.3581 Ha of forest land is considered as a material component of the project as observed in the judgement dated 21/12/2016 of Hon'ble NGT in Appeal No 79 of 2014.

x. The instant proposal involves 8.3581 Ha of forest land for which requisite Stage I FC under the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 is obtained.

xi. Total 22 Schedule I Species found in the buffer zone during field survey and secondary sources. Wildlife and conservation plan for schedule I species prepared and submitted for approval.

xii. Total fresh water requirement is 76800 KLD. Approval for drawing 98630 KLD of water for all 2 units from River Ganga has been obtained from WRD Uttar Pradesh vide letter dated 09/10/2011. The water will be transported to the plant site through pipeline.

xiii. The power requirement for the proposed project is estimated as 7.5 MW during Construction Phase and will be obtained from nearby UP Electricity Board Sub-station.

xiv. 275 m high Chimney (Twin flue) is proposed and proponent will abide by and adhere to all the Notifications/Directives issued by the MoEFCC from time to time regarding the TPP.

xv. Zero Liquid Discharge system will be adopted.

xvi. Transportation of coal will be done 100% by rail. No road transportation is involved.

xvii. The proposed Greenbelt will be developed in 121.13 ha area which is about ~33.16 % of the total project area of 365.19 ha with total sapling of 302825 nos. A 5m to 50 meter wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total number of 302825 saplings will be planted and nurtured in 121.13 ha in 5 years. The Capital Budget of 11.8 Crores and recurring budget is 2.0 Crores is earmarked for Greenbelt development. The Ash will be collected in dry form in silos for further utilization/transportation through rail wagons / closed trucks to adjacent Cement Plants. 100% Ash will be utilized as per Ash Notification dated 31/12/2021.

xviii. Ash pond is proposed in an area of 49.37 Ha for ash disposal.

xix. Public hearing for the project was held on 11/04/2025. The Committee looked in to the videography of the public hearing proceedings, deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory. The committee advised the PP to implement the PH action plan in a time bound manner.

xx. The capital cost of the proposed project is Rs. 18300 Crores and the capital cost for environmental protection measures is proposed as Rs.3012.39 Crores (Excluding cost towards addressal of Public Consultation issues). The annual recurring cost towards the environmental protection measures is proposed as Rs.32.12 Crores (Excluding cost towards addressal of Public Consultation issues). The employment generation from the proposed project (Operational Phase) is Permanent: 250, Contractual: 2600.

xxi. The Committee deliberated on the baseline data and incremental GLC due to the proposed project. The committee noted that the proponent is providing Electrostatic Precipitator (ESP), Low Nox Burner, SOFA technology and Dust Extraction & Suppression System to control the emission of Particulate matter and NOx and also stack with a height of 275 m will be provided to control & regulate the air emission from the proposed project.

xxii. Committee deliberated on the action plan of Hydrogeology study; Bio-diversity/aquatic ecology study and Risk assessment study and found it satisfactory.

xxiii. The committee noted that with respect to water pollution control, domestic wastewater will be treated in Sewage treatment plant and treated sewage water shall be reused. Effluent will be treated in ETP. There will be no effluent discharge from the premises, hence the ZLD will be maintained. A state-of-the-art roof top rain water harvesting system will be provided to collect the run-off for ground water recharging.

xxiv. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.

xxv. The Committee deliberated on the observations of Hon'ble NGT made in the Judgement dated 21/12/2016 in Appeal No 79 of 2014 titled as Debadityo Sinha vs. Mirzapur Energy (UP) Pvt. Ltd. & Others along with the compliance made by the proponent in this regard.

xxvi. The Committee deliberated on the public representations received for the project as well the reply furnished by the proponent.

xxvii. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.

xxviii. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

Recommendations of the Committee:

24. The EAC after detailed deliberations on the information submitted and as presented during the meeting recommended for grant of Environmental Clearance to the proposed “Proposed 2x800 MW Coal based Ultra Super Critical Thermal Power Project (TPP) by M/s. **Mirzapur Thermal Energy (UP) Private Limited (MTEUPPL)** located at Village Dadri Khurd, Tehsil, Mirzapur Sardar, District Mirzapur, Uttar Pradesh”, under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and standard/general conditions (**Annexure 1**).

25. The MoEF&CC has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC hereby accords Environmental Clearance to M/s. Mirzapur Thermal Energy (UP) Private Limited for “2x800 MW Coal based Ultra Super Critical Thermal Power Project (TPP) located at Village Dadri Khurd, Tehsil, Mirzapur Sardar, District Mirzapur, Uttar Pradesh” subject to compliance of the Specific/General environmental conditions (**Annexure 1**).

26. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

27. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

28. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.

29. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

30. General Instructions:

(i) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.

(ii) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.

(iii) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.

(iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

(v) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

(vi) The Regional Office of this MoEF&CC shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

(vii) Validity of EC is as per the provision of EIA Notification, 2006 and its subsequent amendment.

31. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

32. This issue with an approval of the Competent Authority

Yours faithfully,

(Sundar Ramanathan)

Scientist 'F'

Tel: 011- 20819378

Email- r.sundar@nic.in

Copy To

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. The Deputy Director General of Forests (C), Integrated Regional Officer, Ministry of Environment, Forest and Climate Change, Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, Lucknow – 226020.
3. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Integrated Regional Office, E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal – 462016.
4. The Chairman, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
5. The Regional Director, Central Ground Water Board, North Central Region, Block-1, 4th Floor, Paryawas Bhawan Area Hills, Jail Road, Bhopal - 462011, Madhya Pradesh.
6. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD cum-Office Complex, East Arjun Nagar, Delhi-110032.
7. The Chairman, Madhya Pradesh Pollution Control Board, E-5, Main Rd No. 3, Ekant Park, Arera Colony, Bhopal, Madhya Pradesh 462.016.
8. The Member Secretary, Uttar Pradesh state Pollution Control Board, Building No TC-12 V, Vibhuti Khand Gomti Nagar, Lucknow -226010.
9. The Member Secretary, Madhya Pradesh Pollution Control Board, E-5, Main Rd No. 3, Ekant Park, Arera Colony, Bhopal, Madhya Pradesh 462.016.
10. The District Collector, Mirzapur, Govt. of UP.
11. PARIVESH Portal

Annexure 1

Specific EC Conditions for (Thermal Power Plants)

1. [A] Environmental Management

S. No	EC Conditions
1.1	Project proponent shall comply with all the conditions stipulated in the Stage – I Forest Clearance letter dated 09.09.2025 for diversion of forestland of 8.3581 ha involved in the project for non-forestry activity.
1.2	The project proponent shall be abide by all orders and judicial pronouncements, made from time to

S. No	EC Conditions
	time by the Hon'ble Supreme Court in IA No. 188063 of 2025 filed under W.P. (C) No. 202/1995.
1.3	Project proponent shall ensure that 100% utilization of ash generated from the project in accordance with the ash utilization notification dated 31/12/2021 and its subsequent amendment. Area for the proposed ash dyke shall not exceed 49.7 ha. as committed.
1.4	Project proponent shall establish 4 Continuous Ambient Air Quality Monitoring Stations (CAAQMS) at suitable locations in and around project site in consultation with UPPCB within one year from the date of grant of EC.
1.5	Project proponent shall comply with the recommendations made in the biodiversity assessment report and Hydrogeology report in a time bound manner. Compliance status in this regard shall be submitted to the Regional Office of MoEF&CC along with the six monthly compliance report.
1.6	The water requirement for project is estimated as 76800 KLD and the same shall be met from Ganga River. The specific water consumption for unit 1 & 2 shall be less than 3.0 m3/MWhr.
1.7	The entire coal requirement for 2 units of TPP (2x800 MW) shall be transported by rail network only and no road transportation is permitted.
1.8	Project proponent shall store harvested rainwater in the project boundary and utilize the same for plantation, recharging water in the pond and domestic utilization in colonies. A record shall be maintained of water collected through rainwater and its supply system. PP shall get the water audit done every year to optimize the water requirement.
1.9	Project proponent shall implement the protective measure proposed in EMP in a time-bound manner. The budget earmarked for the same is Rs. 3012.39 crores and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.
1.10	Project proponent shall assess the carbon footprint of the project and develop carbon sink/carbon sequestration resources using modern technologies. The implementation report shall be submitted to the concerned Regional Office of the MoEF&CC.
1.11	Project proponent shall ensure that diesel operated vehicles will be switched over to E-Vehicles/CNG/LNG vehicles in a time bound manner, replace the passenger vehicles to E-vehicle/CNG vehicles in phased manner. Further, for local movement of officials, Contract of Vehicles deployment shall be awarded to Project affected people and all efforts for adopting heavy E-vehicles/CNG/LNG vehicles like Bulkers for ash transportation for short distance subject to availability of such E-vehicle and adequate charging infrastructure in the surrounding area shall be provided. PP shall submit the action taken report to concerned RO with amount spent, photographs (before & after), number of such non diesel vehicles deployed etc. in six monthly compliance report.
1.12	The Project Proponent shall provide stack of 275 meters height and shall abide by the provisions of the notification number G.S.R 465 (E) dated 11/07/2025 related to FGD.
1.13	Project proponent shall ensure that pipelines carrying the fly ash and effluent shall be inspected regularly for any leakages.

S. No	EC Conditions
1.14	Effluent of 1080 KLD will be treated through Effluent Treatment Plant. As committed by the Project proponent, Zero liquid discharge shall be adopted for the existing and the proposed plant. No wastewater will be discharged outside the project site.
1.15	PP shall implement the concurrent plantation plan in a time bound manner. Total of 121.3 ha area (33% of total area of 365.19 ha) will be developed as greenbelt. A 5 m - 50 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB guidelines within 3 years. PP should annually submit the audited statement of expenditure along with proof of activities viz. photographs (before & after with geolocation date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC and on PARIVESH Portal as the case may be for the activities carried out during previous year.
1.16	Project proponent shall carry out community plantation with incentive scheme by distributing 50,000 saplings of native and fruit bearing plants per year for a period of five years. Further, PP shall provide basic facilities to the nearby schools such as drinking water, sanitation facilities (sanitary napkin vending machines) and shall also develop green belt around the nearby schools. Further, PP shall organize quarterly awareness programs for school students to educate them on the significance and preservation of trees.
1.17	Wildlife conservation plan as approved by the competent authority shall be implemented. Additional, budget shall be added in the plan, in case additional measures suggested by state wildlife department. The final Wildlife conservation plan duly approved by the CWLW shall be submitted to RO, MoEF&CC within a time frame of three months from the date of grant of EC and the budget approved by the concerned authority shall be deposited in a government account.
1.18	Project proponent shall install LED display of air quality (Continuous AAQ monitoring) and stack emission (Continuous emission monitoring) at prominent locations preferably outside the plant's main entrance for public viewing and in administrative complex and maintenance of devices shall be done regularly.
1.19	Project proponent shall carry out Water Sprinkling on roads inside the plant area/ administrative/ residential areas and outside the plant area at least for 2 KM on a regular basis to control the air pollution. A logbook shall be maintained for the activity and be in six-monthly compliance report.
1.20	PP shall deploy vacuum based vehicle for everyday cleaning of the road in and around plant site at least for 5 KM. A 3 tier plantation on both side of roads shall be done with native and fruit bearing species.
1.21	Environment Audit of plant shall be done annually and report shall be submitted to Regional office of the Ministry.
1.22	A detailed action plan regarding leachate handling shall be prepared and implemented in consultation with SPCB and the same shall be submitted to the Regional Office of the Ministry. Leachate shall be treated and reused. No treated leachate shall be discharged in any circumstances. Characteristics of Leachate and the treated leachate shall be monitored once in quarter and records shall be maintained.
1.23	Oil and grease recovered from the treatment plant should be disposed only through authorized recyclers.

S. No	EC Conditions
1.24	Monitoring of surface water quality and Ground Water quality shall also be regularly conducted in and around the project site and records to be maintained. 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. The monitored data shall be submitted regularly on PARIVESH portal as part of Half Yearly compliance report.
1.25	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
1.26	PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report submitted by PP.
1.27	PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

2. [B] Socio-economic

S. No	EC Conditions
2.1	A vision document comprising prospective plan for implementation of various CER activities, plantation programme outside the project cover area, rejuvenation and conservation of water bodies within 5 km radius of the project cover area shall be prepared and submitted to the Regional Office of the Ministry within 6 months. Implementation status of the same shall be reported to the Regional office in 6 monthly compliance report.
2.2	Epidemiological Study among population within 5 km radius of project cover area shall be carried out on regular interval (Once in two year) through independent agency. Necessary measures shall be taken as per findings of study in consultation with district administration. Action taken report shall be submitted to the Regional Office of the Ministry.
2.3	The budget proposed for PH is Rs. 46.50 Crores. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health as committed. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC.
2.4	The establishment of a robust public grievance redressal mechanism to address concerns and complaints from local communities regarding the power plant's operations, environmental impacts, or social issues shall be developed. A Senior Officer shall review the functioning of the mechanism

S. No	EC Conditions
	twice in a month.

3. [C] Miscellaneous

S. No	EC Conditions
3.1	An Environmental Cell headed by the Environment Manager with postgraduate qualification in environmental science/environmental engineering, shall be created. 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.
3.2	Consent for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
3.3	All necessary clearance from the concerned Authority, as may be applicable should be obtained prior to commencement of project or activity.

Standard EC Conditions for (Thermal Power Plants)

1. Statutory Compliance

S. No	EC Conditions
1.1	Emission Standards for Thermal Power Plants as per Ministry's Notification S.O. 3305(E) dated 7.12.2015, G.S.R.593(E) dated 28.6.2018 and as amended from time to time shall be complied.
1.2	Part C of Schedule II of Municipal Solid Wastes Rules, 2016 dated 08.04.2016 as amended from time to time shall be complied for power plants based on Municipal Solid Waste.
1.3	MoEF&CC Notifications on Water Consumption vide Notification No. S.O. 3305 (E) dated 07.12.2015 read with G.S.R 593 (E) dated 28.6.2018 as amended from time to time shall be complied.
1.4	The recommendation from Standing Committee of NBWL under the Wildlife (Protection) Act, 1972 should be obtained, if applicable.
1.5	No Objection Certificate from Ministry of Civil Aviation be obtained for installation of requisite chimney height and its siting criteria for height clearance.

2. Ash Content/mode Of Transportation Of Coal

S. No	EC Conditions
2.1	MoEF&CC Notification issued vide S.O. 1561 (E) dated 21.05.2020 and as amended from time to time shall be complied which inter-alia include use of coal by Thermal Power Plants, without stipulations as regards ash content or distance, shall be permitted subject to compliance of conditions prescribed under (1) Setting Up Technology Solution for emission norms, (2)

S. No	EC Conditions
	Management of Ash Ponds and (3) Transportation.

3. Air Quality Monitoring And Management

S. No	EC Conditions
3.1	Project proponent shall abide by the provisions of the notification number G.S.R 465(E) dated 11/07/2025 related to FGD.
3.2	Low NOX Burners with Over Fire Air (OFA) system shall be installed to achieve NOX emission standard of 100 mg/Nm ³ .
3.3	High efficiency Electrostatic Precipitators (ESPs) shall be installed in each unit to ensure that particulate matter (PM) emission to meet the stipulated standards of 30 mg/Nm ³ .
3.4	Stack with a height of 275 meters shall be provided with continuous online monitoring instruments for SO ₂ , Nox and Particulate Matter as per extant rules.
3.5	Exit velocity of flue gases shall not be less than 20-25 m/s. Mercury emissions from stack shall also be monitored periodically.
3.6	Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants from the flue gases such as PM ₁₀ , PM _{2.5} , SO ₂ , NOX within the plant area at four locations. The monitoring of other locations (at least three locations outside the plant area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.
3.7	Adequate dust extraction/suppression system shall be installed in coal handling, ash handling areas and material transfer points to control fugitive emissions.
3.8	Appropriate Air Pollution Control measures (Des/DSs) be provided at all the dust generating sources including sufficient water sprinkling arrangements at various locations viz., roads, excavation sites, crusher plants, transfer points, loading and unloading areas, etc.

4. Noise Pollution And Its Control Measures

S. No	EC Conditions
4.1	The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.
4.2	Persons exposed to high noise generating equipment shall use Personal Protective Equipment (PPE) like earplugs/ear muffs, etc.
4.3	Periodical medical examination on hearing loss shall be carried out for all the workers and maintain audiometric record and for treatment of any hearing loss including rotating to non-noisy/less noisy areas.

5. Human Health Environment

S. No	EC Conditions
5.1	Bi-annual Health check-up of all the workers is to be conducted. The study shall take into account of chronic exposure to noise which may lead to adverse effects like increase in heart rate and blood pressure, hypertension and peripheral vasoconstriction and thus increased peripheral vascular resistance. Similarly, the study shall also assess the health impacts due to air polluting agents.
5.2	Impact of operation of power plant on agricultural crops, large water bodies (as applicable) once in two years by engaging an institute of repute. The study shall also include impact due to heavy metals associated with emission from power plant.

6. Water Quality Monitoring And Management

S. No	EC Conditions
6.1	Induced/Natural draft closed cycle wet cooling system including cooling towers shall be set up with minimum Cycles of Concentration (COC) of 5.0 or above for power plants using fresh water to achieve specific water consumption of 3.0 m ³ /MWhr.
6.2	In case of the water withdrawal from river, a minimum flow 15% of the average flow of 120 consecutive leanest days should be maintained for environmental flow whichever is higher, to be released during the lean season after water withdrawal for proposed power plant.
6.3	Records pertaining to measurements of daily water withdrawal and river flows (obtained from Irrigation Department/Water Resources Department) immediately upstream and downstream of withdrawal site shall be maintained.
6.4	Regular (at least once in six months) monitoring of groundwater quality in and around the ash pond area including presence of heavy metals (Hg, Cr, As, Pb, etc.) shall be carried out as per CPCB guidelines. Surface water quality monitoring shall be undertaken for major surface water bodies as per the EMP. The data so obtained should be compared with the baseline data so as to ensure that the groundwater and surface water quality is not adversely impacted due to the project & its activities.
6.5	The treated effluents emanating from the different processes such as DM plant, boiler blow down, ash pond/dyke, sewage, etc. conforming to the prescribed standards shall be re-circulated and reused. Sludge/ rejects will be disposed in accordance with the Hazardous Waste Management Rules.
6.6	Hot water dispensed from the condenser should be adequately cooled to ensure the temperature of the released surface water is not more than 5 degrees Celsius above the temperature of the intake water.
6.7	Wastewater generation of 1080 KLD from various sources (viz. cooling tower blowdown, boiler blow down, wastewater from ash handling, etc) shall be treated to meet the standards of pH: 6.5-8.5; Total Suspended Solids: 100 mg/l; Oil & Grease: 20 mg/l; Copper: 1 mg/l; Iron: 1 mg/l; Free Chlorine: 0.5; Zinc: 1.0 mg/l; Total Chromium: 0.2 mg/l; Phosphate: 5.0 mg/l.
6.8	Sewage generation of 8 KLD will be treated by setting up Sewage Treatment plant to maintain the treated sewage characteristics of pH: 6.5-9.0; Bio-Chemical Oxygen Demand (BOD): 30 mg/l;

S. No	EC Conditions
	Total Suspended Solids: 100 mg/l; Fecal Coliforms (Most Probable Number).
6.9	Action plan by the TPPs located within 50 km of a municipality or any Urban Local Body (ULB) to use the treated sewage water produced by the municipality/Urban Local Body(ULB) to reduce fresh water consumption.

7. Risk Mitigation And Disaster Management

S. No	EC Conditions
7.1	Adequate safety measures and environmental safeguards shall be provided in the plant area to control spontaneous fires in coal yard, especially during dry and humid season.
7.2	Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS shall be made as per the extant rules in the plant area in accordance with the directives of Petroleum & Explosives Safety Organisation (PESO). Sulphur Content in the liquid fuel should not exceed 0.5%.
7.3	Ergonomic working conditions with First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
7.4	Safety management plan based on Risk Assessment shall be prepared to limit the risk exposure to the workers within the plant boundary.
7.5	Regular mock drills for on-site emergency management plan and Integrated Emergency Response System shall be developed for all kind of possible disaster situations.

8. Green Belt And Biodiversity Conservation

S. No	EC Conditions
8.1	Green belt shall be developed in an area of 33% of the total plant area with indigenous native tree species in accordance with CPCB guidelines.
8.2	In-situ/ex-situ Conservation Plan for the conservation of flora and fauna should be prepared and implemented.

9. Waste Management

S. No	EC Conditions
9.1	Solid waste management should be planned in accordance with extant Solid Waste Management Rules, 2016.
9.2	Toxicity Characteristic Leachate Procedure (TCLP) test shall be conducted for any substance, potential of leaching heavy metals into the surrounding areas as well as into the groundwater.
9.3	Ash pond shall be lined with impervious liner as per the soil conditions. Adequate dam/dyke safety

S. No	EC Conditions
	measures shall also be implemented to protect the ash dyke from getting breached. Planting shall be done all along the bank of ash pond.
9.4	Fly ash shall be collected in dry form and ash generated shall be used in phased manner as per provisions of the Notification on Ash Utilization issued by the Ministry S.O. 5481 dated 31.12.2021, S.O.6169 (E) dated 30.12.2021, S.O.05 (E) dated 01.01.2024 and amendment thereto.
9.5	Unutilized ash if any shall be disposed off in the ash pond in the form of High Concentration Slurry method.

10. Monitoring Of Compliance

S. No	EC Conditions
10.1	Environmental Audit of the project be taken up by the third party for preparation of Environmental Statement as per Form-V & Conditions stipulated in the EC and report be submitted to the Ministry.
10.2	Resettlement & Rehabilitation Plan as per the extant rules of Govt. of India and respective State Govt. shall be followed, if applicable.
10.3	Energy Conservation Plan to be implemented as envisaged in the EIA / EMP report. Renewable Energy Purchase Obligation as set by MoP/State Government shall be met either by establishing renewable energy power plant (such as solar, wind, etc.) or by purchasing Renewable Energy Certificates.
10.4	Energy and Water Audit shall be conducted at least once in two years and recommendations arising out of the Report should be followed. A report in this regard shall be submitted to Ministry's Regional Office.
10.5	<p>The project proponent shall (Post-EC Monitoring):</p> <ol style="list-style-type: none"> send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government; upload the clearance letter on the web site of the company as a part of information to the general public. inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change (MoEF&CC) at http://parviesh.nic.in. upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically; monitor the criteria pollutants level namely; PM (PM10& PM2.5incase of ambient AAQ), SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company; submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB; submit the environmental statement for each financial year in Form-V to the concerned State

S. No	EC Conditions
	<p>Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;</p> <p>h. inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project and the date of commencement of the land development work.</p>

11. Corporate Environmental Responsibility (Cer) Activities

S. No	EC Conditions
11.1	<p>CER activities will be carried out as per Ministry's OM F.No.22- 65/2017- IA.III dated 30th September, 2020 and 22-65/2017- IA.III dated 25.02.2021 or as proposed by the PP in reference to Public Hearing or as earmarked in the EIA/EMP report along with the detailed scheduled of implementation with appropriate budgeting.</p>

