



सत्यमेव जयते

File No: J-13012/07/2025-IA.I(T)  
Government of India  
Ministry of Environment, Forest  
and Climate Change  
IA Division

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Date 17/04/2026



To,

Shri Sivakumar Chilakapati, Vice President  
M/s. Torrent Power Limited  
"SAMANVAY " 600 Tapovanambawadi, Ambawadi, 380015, Gujarat  
E-mail: tpl-moef@torrentpower.com

Subject: **Proposed 2x800 MW Coal Based Ultra Super Critical Thermal Power Plant (New Zone Thermal Power Plant, Anuppur,) by M/s. Torrent Power Limited at village Raksha, Kolmi and Daikhal, Tehsil Anuppur, Anuppur District, Madhya Pradesh – Environment Clearance – regarding**

Sir/Madam,

This is with reference to your proposal number IA/MP/THE/568512/2026 dated 23.02.2026 seeking for grant of Environmental Clearance (EC) under the provisions of the EIA Notification 2006 and as amended thereof for the proposed project mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC26A0601MP5584404N
(ii) File No.	J-13012/07/2025-IA.I(T)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(d) Thermal Power Plants
(vi) Sector	Thermal Projects New Zone Thermal Power Plant, Anuppur, 2x800 MW Coal Based Ultra Super Critical Thermal
(vii) Name of Project	Power Plant at village Raksha, Kolmi and Daikhal, Tehsil Anuppur, Anuppur District, Madhya Pradesh by Torrent Power Limited.
(viii) Name of Company/Organization	M/s. Torrent Power Limited
(ix) Location of Project (District, State)	Anuppur, Madhya Pradesh
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per	No

## EIA Notification, 2006

3. M/s. Torrent Power Limited has made an online application vide proposal no. IA/MP/THE/568512/2026 dated 23.02.2026 along with copy of EIA/EMP report and Form 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 does not attract the provisions of general conditions to the schedule of the EIA Notification, 2006. The instant Proposal was considered by the EAC (Thermal) in its 41st meeting held during 19-20th March, 2026. The MoM for the same may be seen using the following web link: <https://parivesh.nic.in>

### Details submitted by the project proponent

5. The project of M/s Torrent Power Limited located in Raksha, Kolmi and Daikhal Village, Anuppur Tehsil, Anuppur District, Madhya Pradesh State is for setting up of a new power plant with a capacity of 2x800 MW.

6. **Compliance to MoEF&CC Notification dated 11/07/2025 regarding SO<sub>2</sub> emission norms:** The status of compliance to the SO<sub>2</sub> emission norms shall be furnished as per the MoEF&CC Notification dated 11/07/2025:

- Categorization details of TPP: Not done by CPCB as the project is of Green Field in nature
- Sulfur content of the coal to be fired in the boiler: <0.50 %
- Provision of Stack: Twin flue Stack of 275 m height will be provided in compliance of the notification number GSR 742 (E) dated the 30/08/1990 for the proposed project.

7. **The detail of the ToR** is furnished as below:

Proposal No with date	Consideration	Details	Date of accord	ToR Validity
IA/MP/THE/547272/2025 Dated 16.09.2025	30th meeting of EAC – Thermal held on 26.09.2025.	Terms of Reference	21.10.2025	20.10.2029

### 8. Environmental site settings

S. No.	Particulars	Details	Remarks								
1.	Total land	341.85 ha [Private: 302.97 ha; Govt.: 39.78 ha]	Land use: Land was allotted to New Zone India Private Limited (a subsidiary of Torrent Power Limited) during 2011 for setting up of 1320 MW power plant project by the State Govt of Madhya Pradesh.								
2.	Land use breaks up	<table border="1"><thead><tr><th>Facilities</th><th>Area in Ha</th></tr></thead><tbody><tr><td>Main Plant- Boiler, TG building, ESP, Chimney and Facility</td><td>10.32</td></tr><tr><td>Coal Handling System</td><td>23.93</td></tr><tr><td>Water System including WTP, DM Plant &amp; ETP</td><td>8.26</td></tr></tbody></table>	Facilities	Area in Ha	Main Plant- Boiler, TG building, ESP, Chimney and Facility	10.32	Coal Handling System	23.93	Water System including WTP, DM Plant & ETP	8.26	
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3.	Land acquisition details as per MoEF&CC O.M dated 7/10/2014 20/02/2025 and 18/12/2025	<p>Total land requirement for the project is 341.85 ha [Private: 302.97 ha; Govt.: 39.78 ha]</p> <p>New Zone India Private Limited (a subsidiary of Torrent Power Limited) was awarded a land parcel of 331.692 hectares of land in Raksha and Kolmi villages of Anuppur District in the State of Madhya Pradesh by the State Government. Additionally, NZIPL was also allotted government land parcel of 39.776 hectares of land in Raksha and Kolmi villages of Anuppur District in the State of Madhya Pradesh by the State Government. Out of 371.468 Ha, 341.85 Ha will be utilized by M/s. Torrent Power Limited for setting up of the proposed 2 X 800 MW Ultra Super Critical Thermal Plant. Remaining land of 29.618 Ha will be used for future expansion.</p>	Entire land of 341.85 Ha is already under the possession of the project proponent.																		
4.	Existence of habitation & involvement of R&R, if any.	<p><b>Project site:</b> Nil</p> <p><b>Study Area:</b></p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Raksha</td> <td>Adjacent</td> <td>N</td> </tr> <tr> <td>Kolmi</td> <td>0.25 km</td> <td>NW</td> </tr> </tbody> </table>	Habitation	Distance	Direction	Raksha	Adjacent	N	Kolmi	0.25 km	NW	R&R has already been carried out in 2010 by New zone India Pvt. Ltd. The revised R&R policy have been circulated by Collectors office vide letter no. 1/13/1/0001/2025-REV-									
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			ANP-COLLI/310235/2025 dated 13 June, 2025. The same will be implemented by Torrent Power Limited for the project affected people.																		
5.	Existence of school and hospitals if any.	<p><b>A. School</b>  <b>Project site:</b> None  <b>Study Area:</b></p> <table border="1"> <thead> <tr> <th>School</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Upper Primary School, Raksha</td> <td>0.25 km</td> <td>N</td> </tr> <tr> <td>UEGS, Phulwai Tola</td> <td>0.5 km</td> <td>N</td> </tr> </tbody> </table> <p><b>B. Hospital</b>  <b>Project site:</b> None  <b>Study Area:</b></p> <table border="1"> <thead> <tr> <th>Hospital</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Public Health Sub Centre, Jortalwa</td> <td>1.5 km</td> <td>NE</td> </tr> <tr> <td>Health Sub Centre Raksha</td> <td>0.5 km</td> <td>N</td> </tr> </tbody> </table> <p><b>Mitigation Measures Proposed</b></p> <ul style="list-style-type: none"> <li>• The greenbelt proposed in the layout plan of site (in the northern side along the Ash Pond) varies from 15m to more than 100m. Over and above this greenbelt, it is also proposed to develop tree plantation outside the boundary wall towards this village, so as to maintain a minimum green buffer of 50 m between the plant and the village settlements.</li> <li>• The village Kolmi is located at 0.25km from the project boundary. Within the boundary wall a reservoir has been planned towards this village. The reservoir is having a width of 800 m which will be acting as a buffer between operating plant and the village. However peripheral greenbelt between the boundary wall and the reservoir will be provided.</li> <li>• The proposed plant will operate with ESP and De-NOx with 275 m stack (As per MoEF&amp;CC norms).</li> <li>• Periodical health checkups.</li> <li>• Providing free medicines during health camps (seasonally).</li> <li>• Provision of Safe drinking water in educational facilities (Schools) present in these villages.</li> </ul>	School	Distance	Direction	Upper Primary School, Raksha	0.25 km	N	UEGS, Phulwai Tola	0.5 km	N	Hospital	Distance	Direction	Public Health Sub Centre, Jortalwa	1.5 km	NE	Health Sub Centre Raksha	0.5 km	N	
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9.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	<b>Project site:</b> Name: Jhitku Nala <b>Study area</b> <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Jhitku Nala</td> <td>Adjacent</td> <td>E</td> </tr> <tr> <td>Gohirari</td> <td>Adjacent</td> <td>S</td> </tr> </tbody> </table>	Water body	Distance	Direction	Jhitku Nala	Adjacent	E	Gohirari	Adjacent	S	HFL for the Sone River is 485 m vide WRD Letter No.: WRD/25/0009/2025-O/oWRD-ANP-COLL, dated: 21.08.2025. Distance from project site is 1.7 km approximately. There were no flooding incidents in																																																																																				
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10.	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	<p><b>Study area</b>  <b>Name of the ESZ/ESA:</b> Nil  <b>Status of Notification:</b> NA  <b>Distance of project from ESZ/ESA:</b> NA  <b>Authenticated map of ESZ projecting distance of ESZ from project site:</b> Status of NBWL approval: Not applicable  <b>List of Reserved and protected forests:</b></p> <table border="1" data-bbox="539 887 1118 2018"> <thead> <tr> <th data-bbox="539 887 603 965">S. No</th> <th data-bbox="603 887 868 965">Name</th> <th data-bbox="868 887 1018 965">Distance in Km</th> <th data-bbox="1018 887 1118 965">Direc-tion</th> </tr> </thead> <tbody> <tr><td>1</td><td>Kotma RF</td><td>0.14</td><td>E, SE</td></tr> <tr><td>2</td><td>RF near Thuthi</td><td>2.6</td><td>NW</td></tr> <tr><td>3</td><td>Kotma RF near Lalmatia</td><td>3.7</td><td>NNE</td></tr> <tr><td>4</td><td>Mauhari RF near Pasla</td><td>4</td><td>WNW</td></tr> <tr><td>5</td><td>Kotma RF near Chhohri</td><td>4.2</td><td>ENE</td></tr> <tr><td>6</td><td>RF near Parasi</td><td>4.3</td><td>ESE</td></tr> <tr><td>7</td><td>Mauhari RF near Rahilakachhar</td><td>4.7</td><td>SSE</td></tr> <tr><td>8</td><td>Bamni PF</td><td>4.8</td><td>N, NNW</td></tr> <tr><td>9</td><td>Kotma RF near Piyari</td><td>5.8</td><td>NE</td></tr> <tr><td>10</td><td>Mauhari RF</td><td>6</td><td>SW</td></tr> <tr><td>11</td><td>Mauhari RF near Patauratola</td><td>6.4</td><td>SSE</td></tr> <tr><td>12</td><td>Deori PF</td><td>6.7</td><td>NNE</td></tr> <tr><td>13</td><td>Kotma RF near Latar</td><td>7</td><td>ESE,SE</td></tr> <tr><td>14</td><td>Mauhari RF near Bhagatbandh</td><td>7.1</td><td>W</td></tr> <tr><td>15</td><td>Mauhari RF near Mairtola</td><td>7.4</td><td>WNW</td></tr> <tr><td>16</td><td>Rampur PF</td><td>7.9</td><td>NW</td></tr> <tr><td>17</td><td>Laharpur PF</td><td>8.2</td><td>S</td></tr> </tbody> </table>	S. No	Name	Distance in Km	Direc-tion	1	Kotma RF	0.14	E, SE	2	RF near Thuthi	2.6	NW	3	Kotma RF near Lalmatia	3.7	NNE	4	Mauhari RF near Pasla	4	WNW	5	Kotma RF near Chhohri	4.2	ENE	6	RF near Parasi	4.3	ESE	7	Mauhari RF near Rahilakachhar	4.7	SSE	8	Bamni PF	4.8	N, NNW	9	Kotma RF near Piyari	5.8	NE	10	Mauhari RF	6	SW	11	Mauhari RF near Patauratola	6.4	SSE	12	Deori PF	6.7	NNE	13	Kotma RF near Latar	7	ESE,SE	14	Mauhari RF near Bhagatbandh	7.1	W	15	Mauhari RF near Mairtola	7.4	WNW	16	Rampur PF	7.9	NW	17	Laharpur PF	8.2	S	NO Eco-sensitive Zone notified/ proposed to be notified are present within the 10 km study area
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S. No.	Particulars	Details	Remarks
		18 Chhilpa PF	11 NNW
		19 Majhauri PF	11.4 NW
		20 Lakhanpur RF	12.1 SSW
		21 Munda RF	14.3 SE
11.	Archaeological sites monuments/ historical temples etc.	No Archaeological sites/ monument/ historical temples are present in the study area of the project site.	
12.	Involvement of Critically Polluted Area/Severely Polluted area as per 2018 CEPI score	<b>Involvement of CPA/SPA- Nil</b> <b>Proximity to CPA/SPA- Nil</b>	

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

S.No.	Proposed power plant configuration and capacity	Technology adopted
01	2x800 MW	Ultra Super Critical Technology

10. The details of the coal requirement for the proposed project along with its source and mode of transportation is given as below:

Details	Fuel Requirement	Source	Distance from site (Kms)	Mode of Transportation	Coal Characteristics
Proposed TPP	8.5 (MTPA)	Indigenous Coal, allocation as per Shakti Scheme	250	Railway Siding	(Worst case scenario)
					Ash – 40.52(%)
					Sulphur-0.33(%)
					Moisture- 9.82 (%)
					GCV -3169 Kcal/Kg

11. **Water requirement:** The water requirement for the proposed project is estimated as 72,456 m<sup>3</sup> /day, out of which 71,256 m<sup>3</sup> /day of fresh water requirement will be obtained from the Sone River and the remaining requirement of 1200 m<sup>3</sup> /day will be met from the treated water from the plant. The permission for drawl of surface water (40 MCM) from Sone river has been obtained from WRD, Madhya Pradesh Vide Lr. No. 1183/2025/441 dated 19.09.2025. The water will be transported to the plant site through pipeline. The specific water consumption for the power plant will be less than 3 m<sup>3</sup>/MWhr.

12. **Power Requirements:** The power requirement for the proposed project is estimated as 5 MW, out of which 5 MW will be obtained from the Proposed power plant as Aux. power.

### 13. Baseline Environmental Studies

Period	March, April & May, 2025 (Pre Monsoon)	Additional study (if any)
AAQ parameters at 10 Locations (min and max)	PM <sub>10</sub> = 58.33 To 85.62 µg/m <sup>3</sup> PM <sub>2.5</sub> = 27.08 To 45.35 µg/m <sup>3</sup> SO <sub>2</sub> = 10.03 to 18.43 µg/m <sup>3</sup> NO <sub>x</sub> = 15.26 To 21.49 µg/m <sup>3</sup> CO = 0.2 To 0.58 mg/m <sup>3</sup>	

Period	March, April & May, 2025 (Pre Monsoon)	Additional study (if any)																														
Incremental GLC level	PM <sub>10</sub> = 1.01 µg/m <sup>3</sup> (Level at 3.8 km in SE Direction) SO <sub>2</sub> = 12.03 µg/m <sup>3</sup> (Level at 3.8 km in SE Direction) NO <sub>x</sub> = 5.02 µg/m <sup>3</sup> (Level at 3.8 km in SE Direction)																															
Ground water quality at 12 locations	pH: 7.05 to 7.44, Total Hardness: 40.8 to 310.4 mg/l, Chlorides: 8.2 to 46.5 mg/l, Fluoride: 0.14 to 0.27 mg/l. Iron: 0.08 to 0.15 mg/l																															
Surface water quality at 6 locations	pH: 7.11 to 7.52; DO: 5.8 to 6.7 mg/l and BOD: 3.2 to 6 mg/l. COD from 10 to 20 mg/l																															
Effluent generation details and its treatment	Effluent generation from TPP- 1200 KLD Mode of treatment & reuse- ETP comprising Lamella clarifier/ Tub settler with Chemical dosing. The treated water will be reused in CHP, Ash conditioning and road washing. Domestic wastewater generation: 400 KLD Mode of treatment & reuse- STP based on Fix Bed Bio-Reactor Technology. The treated water will be used for flushing, horticulture and floor washing.																															
Noise levels Leq (Day and Night)	48.6 to 54.5 dBA for the daytime and 39.1 to 44.2 dBA for the Night time.																															
Traffic assessment study findings	<ul style="list-style-type: none"> <li>•Traffic study has been conducted at NH 43 which is approximately 3.75 km (distance) from the plant site.</li> <li>•Transportation of raw material will be done 100 % by road.</li> <li>•Existing PCU is 265.2 PCU/hr on NH 43 and existing level of service (LOS) is: A</li> <li>•PCU load after proposed project will be 265.2 (Existing) + 38.97 (Additional) PCU/hr and level of service (LOS) will be: A</li> </ul> <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/hr.)</th> <th>C (Capacity in PCU/hr.)</th> <th>Existing V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>NH-43</td> <td>265.2</td> <td>1458</td> <td>0.18</td> <td>A</td> </tr> <tr> <td>Raksha Rd</td> <td>130.92</td> <td>625</td> <td>0.21</td> <td>B</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/hr.)</th> <th>C (Capacity in PCU/hr.)</th> <th>Proposed V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>NH-43</td> <td>304.17</td> <td>1458</td> <td>0.2</td> <td>A</td> </tr> <tr> <td>Raksha Rd</td> <td>185.42</td> <td>625</td> <td>0.3</td> <td>B</td> </tr> </tbody> </table> <p>* Note: Capacity as per IRC106-1990 and IRC 64-1990 Guide line for capacity for roads.</p> <p><b>Conclusion:</b> The level of service will be A at NH 43 after including additional traffic due to proposed project.</p>	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	NH-43	265.2	1458	0.18	A	Raksha Rd	130.92	625	0.21	B	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Proposed V/C Ratio	LOS	NH-43	304.17	1458	0.2	A	Raksha Rd	185.42	625	0.3	B	
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Soil Quality at 8 Locations	pH range 7.28 to 7.58; Electrical conductivity (EC); 135 to 312 µmhos/cm; calcium content: 42.4 to 62.4 meq/100g; potassium: 98.6 to 210.2 kg/ha; Nitrogen: 212.6 to 324.2 kg/ha; Phosphorous: 16.4 to 26.4 kg/ ha Cation Exchange Capacity (CEC): 11.6 to 14.1 meq/100gm; Magnesium: 12.2 to 26.4 meq/100gm; Organic Matter: 1.05 to 1.48 %.																															

Period	March, April & May, 2025 (Pre Monsoon)	Additional study (if any)																									
Flora and fauna	33 Schedule I Species as per WP (A)A, 2022 have been observed in the study area. List of flora and fauna has been authenticated by DFO, Anupur division vide letter dated 28.11.2025. Wild life conservation Plan for Schedule I species with a budgetary allocation of 2.75 Cr. has been prepared & submitted to DFO, Anupur division dated 28.11.2025 and the same is yet to be approved.																										
Hydrogeology study	<p>Recommendations of Hydrogeology study:</p> <ul style="list-style-type: none"> <li>- Maintain Zero Groundwater withdrawal Policy throughout construction and operation</li> <li>- Use of only surface water for industrial and domestic purposes</li> <li>- Provision of impervious lining in ash disposal and wastewater storage areas.</li> <li>- Implement storm water management system with oil- water separators, silt traps and greenbelt filtration.</li> <li>- Adopt rainwater harvesting structures to enhance natural recharge.</li> <li>- Construction of Gabion structures for slope stability and Check dam and stop dam to reduce runoff velocity enhance infiltration and facilitate ground water recharge.</li> <li>- Construction of Percolation tank and farm ponds to store surface runoff temporarily and allow slow infiltration into the groundwater table.</li> </ul> <p>A amount of Rs 1.26 Cr is also been allocated for the proposed infrastructure for watershed development.</p>	The Hydrogeology study have been conducted by M/s vibrant Techno Lab (NABET/EIA/25-28/RA O422)																									
Impact study on bio-diversity and aquatic ecology	<p>The analysis of the survey data reveals that 33 species are in Schedule I of the Wildlife Protection Act of India. Out of these 33 species, animal classes are distributed among Mammals 14, 2 Birds, 16 Reptiles and 1 Amphibian. Action plan along with Rs 2.75 Cr is allocated for conservation of Biodiversity of the area.</p> <table border="1" data-bbox="368 1272 1209 2040"> <thead> <tr> <th>S. No.</th> <th>Activity</th> <th>Duration</th> <th>Estimated Budget (INR Lakhs)</th> <th>Responsible Agency</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Habitat Restoration (Afforestation &amp; Grassland Development)</td> <td>1-3 years</td> <td>50</td> <td>Forest Department, Local NGOs</td> </tr> <tr> <td>2</td> <td>Wildlife Monitoring &amp; Camera Traps</td> <td>Ongoing (5 years)</td> <td>25</td> <td>Research Institutes, Wildlife Experts</td> </tr> <tr> <td>3</td> <td>Human-Wildlife Conflict Mitigation (Fencing, Awareness Camps)</td> <td>1-2 years</td> <td>20</td> <td>Forest Department, Local Community Groups</td> </tr> <tr> <td>4</td> <td>Anti-Poaching &amp;</td> <td>Conti</td> <td>30</td> <td>Forest</td> </tr> </tbody> </table>	S. No.	Activity	Duration	Estimated Budget (INR Lakhs)	Responsible Agency	1	Habitat Restoration (Afforestation & Grassland Development)	1-3 years	50	Forest Department, Local NGOs	2	Wildlife Monitoring & Camera Traps	Ongoing (5 years)	25	Research Institutes, Wildlife Experts	3	Human-Wildlife Conflict Mitigation (Fencing, Awareness Camps)	1-2 years	20	Forest Department, Local Community Groups	4	Anti-Poaching &	Conti	30	Forest	Biodiversity analysis study conducted by Indira Gandhi National Tribal University, Amarkantak.
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Period	March, April & May, 2025 (Pre Monsoon)				Additional study (if any)
		Patrolling Measures	-nuous		Department, Law Enforcement
	5	Community Engagement & Livelihood Support (Eco-tourism, Agroforestry)	2-4 years	40	NGOs, CSR Initiatives
	6	Capacity Building & Training (Forest Guards, Local Youth)	Annual	10	Wildlife Institute of India, Training Centers
	7	Water Resource Management (Pond Creation, Check Dams)	1-2 years	35	Forest & Irrigation Departments
	8	Conservation Education & Awareness Campaigns	5 years	15	Schools, Local Institutions
	9	Biodiversity Corridor Development	3-5 years	50	State Forest Dept., CSR Initiatives
	Total Estimated Budget		275 Lakhs (2.75 Cr.)		
Risk assessment study	<p>The preliminary risk assessment has been completed for the proposed power plant and associated facilities and the broad conclusions are as follows:</p> <ul style="list-style-type: none"> <li>• There will be no significant community impacts or environmental damage consequences; and</li> <li>• The hazardous event scenarios and risks in general at this facility can be adequately managed to acceptable levels by performing the recommended safety studies as part of detailed design, applying recommended control strategies and implementing a Safety Management System.</li> </ul> <p><b>Risk Reduction Opportunities</b></p> <ul style="list-style-type: none"> <li>• Buildings and plant structures designed for cyclone and seismic events (where appropriate),</li> <li>• Provision for adequate water capacity to supply fire protection systems and critical process water;</li> <li>• Isolate people from load carrying/mechanical handling systems, vehicle traffic and storage and stacking locations;</li> <li>• Installation of fit-for-purpose access ways and fall protection systems to facilitate safe access to fixed and mobile plant;</li> <li>• Provision and integrity of process tanks, waste holding tanks and bunded areas as per relevant standards;</li> <li>• Containment of hazardous materials;</li> </ul>				Conducted by M/s. GreenCindia Consulting Pvt Ltd, Ghaziabad

<b>Period</b>	<b>March, April &amp; May, 2025 (Pre Monsoon)</b>	<b>Additional study (if any)</b>
	Security of facility to prevent unauthorized access to plant, introduction of prohibited items, and control of onsite traffic; and Development of emergency response management systems commensurate with site specific hazards and risks (fire, explosion, rescue and first aid)	

14. **Solid and hazardous waste management:** 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
1	MSW	Plant Canteen	5	As per MoEF&CC Norms	Via Authorized Vendor
2	Used PVC Bags	Plant	2	As per MoEF&CC Norms	Via Authorized Vendor
3	E-waste	IT & Telecom	3	As per MoEF&CC Norms	Via Authorized Vendor
4	Battery waste	Automotive & industry	3	As per MoEF&CC Norms	Via Authorized Vendor
5	Biomedical Waste	Occupational Health Centre (OHC)	0.025	As per MoEF&CC Norms	Via Authorized Vendor
6	Used Oil/ Waste Oil	Plant Operation	60	Registered Recycler/Preprocessor with SPCB	
7	Wastes or residues containing oil	Plant Operation	10	Sell to authorized recycler	
8	Empty barrels/ Containers/ liners	Plant Operation	20	Sell to authorized recycler	

15. **Public Consultation:**

Details of advertisement given	06 <sup>th</sup> December, 2025
Date of public consultation	07 <sup>th</sup> January, 2026
Venue	Village Playground, Raksha, Tehsil & District Anuppur, Madhya Pradesh
Presiding Officer	Mr. Dilip Kumar Panday, Additional Collector, Anuppur District, Madhya Pradesh
Major issues raised	Employment and livelihood. Rehabilitation and Compensation, drinking water supply in villages, water supply for irrigation, compensatory afforestation and protection of surrounding green areas, Construction and Maintenance of local roads and associated facilities, health infrastructure, etc.
No. of people attended	407

**Action Plan as per MoEF&CC O.M. Dated 30/09/2020**

S No	Key Area Identification for Activities Based on Public Needs Highlighted During Public Hearing	Proposed Expenditures year wise (Rs. In Crores)					Total Proposed Expenditure (Rs. In Crores)	Physical Targets
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>		
<b>A</b>	<b>Educational Initiatives</b>							
1	Education and drinking water Programs in Raksha and Kolmi ( <b>Support Class Program</b> )	0.12	0.12	0.12	0.12	0.12	<b>0.6</b>	Offering free coaching classes for students in grades 3 to 7, with a strong focus on Foundational Literacy and Numeracy (FLN), in alignment with the National Education Policy (NEP) 2020. Water supply facilities will be provided in Schools of Raksha and Kolmi as desired by the school administration.
2	Coaching classes for 10 <sup>th</sup> and 12 <sup>th</sup> class students	0.1	0.1	0.1	0.1	0.1	<b>0.5</b>	Coaching Classes for 10 <sup>th</sup> & 12 <sup>th</sup> Class students of project affected area will be started at a identified site during the construction period of the project.
3	Free educational materials for students studying in Amgawan Private school	0.05	0.05	0.05	0.05	0.05	<b>0.25</b>	Distribution of school bags and sanitary napkins will be done to girls studying in Private school in Raksha and Kolmi
4	Scholarship for Girl students in Raksha and Kolmi	0.08	0.08	0.08	0.08	0.08	<b>0.4</b>	Providing scholarships to 20 girls in each Raksha and Kolmi village, covering grades 8 to 12. This initiative will be managed through a third-party organization to ensure effective distribution and support.
	<b>Sub Total</b>	<b>0.35</b>	<b>0.35</b>	<b>0.35</b>	<b>0.35</b>	<b>0.35</b>	<b>1.75</b>	
<b>B</b>	<b>Community Health Initiatives</b>							

S No	Key Area Identification for Activities Based on Public Needs Highlighted During Public Hearing	Proposed Expenditures year wise (Rs. In Crores)					Total Proposed Expenditure (Rs. In Crores)	Physical Targets
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>		
1	Medical Camps and Mobile Medical vans will be organized weekly for the Project affected villages of Raksh, Kolmi and Daikhal.	0.5	0.6	0.7	0.9	1.0	3.7	Medical Camps and Mobile Medical vans will be organized weekly for the Project affected villages of Raksha, Kolmi and Daikhal. Infrastructure for the same will be done accordingly.
2	The patient bed capacity in Health Sub-centre Raksha will be increased by 10% and other necessary infrastructure will be built for it.	0.1	0.1	0.1	0.1	0.1	0.5	Every year patient bed capacity and required infrastructure will be increase.
	<b>Sub Total</b>	<b>0.6</b>	<b>0.7</b>	<b>0.8</b>	<b>1</b>	<b>1.1</b>	<b>4.2</b>	
<b>C</b>	<b>Sustainable Livelihood and Women Empowerment</b>							
1	Skill Development Training for Youths (Technical and Non-Technical Courses)	0.2	0.2	0.2	0.2	0.2	1	Vocational training shall be organized for local youth as per performance and requirement up to 200 candidates.
2	Skill Development Training on basic Sewing training and sewing machine distribution	0.25	0.25	0.25	0.25	0.25	1.25	Vocational training on basic sewing and sewing machine distribution to 300 women for startup.
3	Tools, Equipment, and Starter Kits for SHGs and Farmers	0.15	0.15	0.15	0.15	0.15	0.75	Training and Material support for local women self-help groups for up to 300 women every year for start-up / small enterprises as per their preference and requirement.
	<b>Sub Total</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>3</b>	
<b>D</b>	<b>Community Rural Infrastructure Development</b>							
1	Solar pumps for watersupply for irrigation purposes.	0.2	0.1				0.3	Water pumps will be provided for Raksha and Kolmi village upon assessment of requirement and feasibility for the purpose of purpose of water supply in

S No	Key Area Identification for Activities Based on Public Needs Highlighted During Public Hearing	Proposed Expenditures year wise (Rs. In Crores)					Total Proposed Expenditure (Rs. In Crores)	Physical Targets
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>		
								agricultural fields. Maintenance work will be done by respective village Mukhiya.
2	Water requirement in Raksha, Kolmi and Funga	0.1	0.15				<b>0.25</b>	Handpump- 5, Implementation will be done by TPL and maintenance will be done by the respective village Mukhiya.
								(First year -Raksha-1 and Kolmi-1)
								(Second Year - Daikhal-1, Chatuwa-1 and Funga-1)
3	Road maintenance and upgradation of Rakhsa Road	0.6	0.3	0.2	0.1	0.1	<b>1.3</b>	Repair and Renovation of PMGSY-BT Road from (NH-43 Junction) to Durwasin Railway Station (Funga-Raksha-Dhurwasin Road) of 8 km (approx.) stretch.
4	Solar Street lights along Road	0.25	0.15	0.05	0.03	0.02	<b>0.5</b>	Solar Street lights will be installed along same stretch of Raksha Road
	<b>Sub Total</b>	<b>1.15</b>	<b>0.7</b>	<b>0.25</b>	<b>0.13</b>	<b>0.12</b>	<b>2.35</b>	
<b>E</b>	<b>Development of Sports Infrastructure</b>							
1	Improvement of Sports facility in Schools	0.1	0.05	0.05	0.03	0.02	<b>0.25</b>	Facilities and instruments to be provided to schools for sports and cultural enhancement in Upper Primary School, Raksha, UEGS Phulwai Tola and Public School, Kolmi.
	<b>Sub Total</b>	<b>0.1</b>	<b>0.05</b>	<b>0.05</b>	<b>0.03</b>	<b>0.02</b>	<b>0.25</b>	
<b>F</b>	<b>Community Development for various activities at village level</b>							
1	Plantation of trees in the premises of Schools, government buildings,	0.04	0.04	0.04	0.04	0.04	<b>0.2</b>	Every year near about 800 saplings (shed trees) will be

S No	Key Area Identification for Activities Based on Public Needs Highlighted During Public Hearing	Proposed Expenditures year wise (Rs. In Crores)					Total Proposed Expenditure (Rs. In Crores)	Physical Targets
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>		
	institutions, along Raksha Road etc. under the project affected area.							distributed to locals for plantation within the premises of Govt. schools, Panchayat offices, along Raksha Road and institutions. The saplings will be taken care by the administration and local peoples.
	<b>Sub Total</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.2</b>	
G	<b>Green Belt Development in 33% of Project area including Peripheral Green belt.</b>							Greenbelt will be developed including local native species such as- Sal, Siris, Shisham, mahua, neem, Jamun, Ber etc.
1	Plantation	5.22	5.22	5.22	5.22	5.22	26.1	Total 2,84,150 Plant shall be planted in five years.
	<b>Sub Total</b>	<b>5.22</b>	<b>5.22</b>	<b>5.22</b>	<b>5.22</b>	<b>5.22</b>	<b>26.1</b>	
	<b>Total (A+B+C+D+E+F+G)</b>	<b>8.06</b>	<b>7.66</b>	<b>7.31</b>	<b>7.37</b>	<b>7.45</b>	<b>37.85</b>	

16. **Capital of project:** The capital cost of the proposed project is Rs 23,740 Crores and the capital cost for environmental protection measures is proposed as Rs 1,294.01 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 24.55 Crores. The employment generation from the proposed project is 400 permanent positions. The details of cost for environmental protection measures is as follows:

S. No.	Item Description	Capital Cost (Rs. Cr)	Recurring Cost (Rs Cr)
1	Electrostatic Precipitator	565	12
2	Chimney	150	0.5
3	Cooling Tower including civil works	180	1.5
4	Ash Handling including ash water recirculation	240	5.5
5	Ash disposal civil work	50	0.5
6	Dust extraction & suppression system	15	0.25
7	DM Plant Waste Treatment System	30	1.83
8	Sewage collection, treatment & disposal	5	0.6
9	Green Belt & landscaping	20	1.2
10	Rainwater harvesting	10	0.1
11	Environmental Laboratory & Environmental Monitoring	10	0.25
12	CEMS, CAAQMS, EQMS monitoring system & Main gate display board	10	0.25
13	Sprinkler System in Coal Storage Area.	5	0.07

S. No.	Item Description	Capital Cost (Rs. Cr)	Recurring Cost (Rs Cr)
	<b>Total hard cost in Rs. Crores</b>	<b>1290</b>	<b>24.55</b>
14	Wildlife Conservation Plan	2.75	-
15	Watershed Development Plan	1.26	-
	<b>Grand Total</b>	<b>1,294.01</b>	<b>24.55</b>

17. **Green belt development:** Proposed greenbelt will be developed in 113.66 ha which is about 33.25 % of the total project area. A 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. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 2,84,150 saplings will be planted and nurtured in 113.66 hectares in 5 years.

#### 18. Ash Management

Details	Annual generation (MTPA)	Utilization (MTPA)	% of utilization	Balance quantity (MTPA)	No storage silos with capacity
Ash (Fly & Bottom)	3.3	3.3	100%	0	3 Nos of silos with 3000 Tons capacity

#### Ash Pond details:

S. No.	Details of Ash pond	Ash pond
1.	Area (Ha)	44.43
2.	Dyke height (m)	10
3.	Volume (m <sup>3</sup> )	4,000,000
4.	Quantity of ash to be disposed (Metric Tons)	3.3 million MT
5.	Expected life of ash pond (number of years and months)	30
6.	Type lining carried in ash pond: HDPE lining of LDPE lining or clay lining or No lining	HDPE lining
7.	Mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD)	MCSD
8.	Ratio of ash: water in slurry mix (1:):	1:1.5
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 <sup>3</sup> )	None
13.	Details regarding dyke stability study and name of the organization who conducted the study:	NA

#### Ash utilization plan

S. No.	Activity	Quantity (MTPA)	Percentage
1.	Fly ash-based products (bricks or blocks or tiles or fiber cement sheets or pipes or boards or panels)	0.033	1
2.	Cement manufacturing	2.014	58
3.	Filling up of low-lying area	0.231	7
4.	Filling of mine voids:	1.122	34
	<b>Total</b>	<b>3.3</b>	<b>100</b>

19. **Summary of violation under EIA, 2006/court case/show cause/direction if any, related to the project under consideration:** Nil.

20. **Comments of MPPCB as per MoEF&CC O.M. dated 14/01/2025:** Consent to Establish (CTE) has been accorded by MPPCB on 26.02.2026

## Observations and deliberation of the EAC

### 21. *The Committee observed and noted the following:*

- i. The Instant proposal is for seeking Environment Clearance for setting up of a new power plant with a capacity of 1600MW (2x800 MW) in Raksha, Kolmi and Daikhal Village, Anuppur Tehsil, Anuppur District, Madhya Pradesh by M/s Torrent Power Limited.
- ii. Total required land for proposed project is 341.85 Ha, which include the plant area of 10.32 Ha and ash pond area of 44.43 Ha. The entire land of 341.85 Ha is already under the possession of the project proponent.
- iii. No forest Land is involved in the Project.
- iv. No National Park, Elephant/Tiger Reserve, ESZ, or migratory routes/wildlife corridors exist within 10 km of the proposed TPP.
- 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. PP has presented the coal characteristic of domestic coal having total requirement of 8.5 MTPA. The Sulphur content of domestic coal is reported as 0.33 %. Similarly, the ash content of domestic coal is reported as 40.52% as worst coal scenario. Coal shall be transported by Rail to plant site and no road transportation is involved.
- vii. The water requirement for the proposed project is estimated as 72,456 m<sup>3</sup> /day, out of which 71,256 m<sup>3</sup> /day of fresh water requirement will be obtained from the Sone River and the remaining requirement of 1200 m<sup>3</sup> /day will be met from the treated water from the plant. The permission for drawl of surface water is obtained from WRD, Madhya Pradesh Vide letter dated 19.09.2025. The water will be transported to the plant site through pipeline. The specific water consumption for the power plant will be less than 3 m<sup>3</sup>/MWhr.
- viii. The power requirement for the proposed project is estimated as 5 MW which will be obtained from the proposed power plant as Aux. power.
- ix. The capital cost of the proposed project is Rs 23,740 Crores and the capital cost for environmental protection measures is proposed as Rs 1,294.01 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 24.55 Crores. The employment generation from the proposed project is 400 permanent positions.
- x. Action plan submitted by the proponent to address the issues raised Public Hearing held on 07.01.2026 is in line with the MoEF&CC OM dated 30/09/2020.
- xi. Proposed greenbelt will be developed in 113.66 ha which is about 33.25 % of the total project area. A 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. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 2,84,150 saplings will be planted and nurtured in 113.66 hectares in 5 years.
- xii. The Committee deliberated on the baseline data and incremental GLC. The committee noted that the proponent is providing High Efficiency Electrostatic Precipitator (ESP) to meet the stack emission standards for Particulate Matters 30 mg/Nm<sup>3</sup>, Low Nox Burner, and Dust Extraction & Suppression System to control the emission of Particulate matter, NOx, and stack with a height of 275 m will be provided to control & regulate the air emission from the proposed project.
- xiii. Committee deliberated on the action plan of Hydrogeology study; Bio-diversity/aquatic ecology study, Risk assessment study, and found it satisfactory.
- xiv. EAC observed that one nala named Jhitku Nala is passing along the plant boundary, EAC asked PP to adopt the adequate and appropriate protection measure and submit the status in this regard to the Regional Office of MoEF&CC

along with the six-monthly compliance report.

xv. Zero Liquid Discharge system is envisaged for the proposed project. No wastewater discharge is proposed.

xvi. The Fly 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 utilised in Cement Industries, reclamation of abandoned mines, manufacturing of bricks, road construction, and aggregate replacement in concrete, etc. as per Fly Ash Notification, 31st December'2021. Provision will be made for disposal of un-utilized ash in medium concentration slurry form to ash dyke.

xvii. The committee noted that with respect to water pollution control, proponent shall use Sewage treatment plant and treated sewage water shall be utilized for horticulture purpose. Effluent will be treated in ETP. There will be no effluent discharge from the premises, hence the ZLD will be maintained. Along with this, the water from the cooling towers will be recirculated. A state-of-the-art roof top rain water harvesting system will be provided to collect the run -off for ground water recharging.

xviii. 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.

xix. No court cases and show cause notices related to Environment are pending against the proposed project.

xx. Consent to Establish was accorded by MPPCB on 26.02.2026.

xxi. 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:**

22. 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 Plant (New Zone Thermal Power Plant, Anuppur,) by M/s. Torrent Power Limited at village Raksha, Kolmi and Daikhal, Tehsil Anuppur, Anuppur District, Madhya Pradesh*”, under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and standard/general conditions (**Annexure 1**).

23. 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. Torrent Power Limited** for “*Proposed 2x800 MW Coal Based Ultra Super Critical Thermal Power Plant (New Zone Thermal Power Plant, Anuppur,) at village Raksha, Kolmi and Daikhal, Tehsil Anuppur, Anuppur District, Madhya Pradesh*” subject to compliance of the Specific/General environmental conditions (**Annexure 1**).

24. 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.

25. 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.

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

27. 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.

28. 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.

29. 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.

30. 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 Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
3. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office, 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 Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
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, Madhya Pradesh Pollution Control Board, E-5, Main Rd No. 3, Ekant Park, Arera Colony,

**Specific EC Conditions for (Thermal Power Plants)**

**1. [A] Environmental Management**

S. No	EC Conditions
1.1	Project proponent shall ensure that 100% utilization of ash generated from 2x800 MW in accordance with the ash utilization notification dated 31/12/2021 and its subsequent amendment. Area for the ash pond proposed for unit no 1 & 2 (2x800MW) shall not exceed 44.43 Ha as committed. Ash pond shall be fenced and a green belt shall be developed all along the periphery of the ash pond area.
1.2	All the conditions prescribed in the Consent to Establish (CTE) accorded by MPPCB on 26.02.2026 shall be complied with.
1.3	Project proponent shall ensure that Jhitku Nala is not disturbed and a dense greenbelt in the Eastern part of the project is developed to mitigate impact on the natural water body as committed.
1.4	In addition to the proposed 3 Continuous Ambient Air Quality Monitoring Stations (CAAQMS), project proponent shall install additional one continuous ambient air quality monitoring at the location at which Maximum GLC is occurring in and around project site in consultation with MPPCB within one year from the date of grant of EC as committed.
1.5	Project proponent shall comply with the recommendations made in the Hydrogeology study, Bio-diversity/aquatic ecology study and Risk assessment study 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 proposed project is estimated as 71,256 m <sup>3</sup> /day and the same shall be met from Sone River. The specific water consumption shall be less than 3.0 m <sup>3</sup> /MWhr.
1.7	The coal requirement for the proposed project is about 8.5 MTPA and same would be met under the Shakti Policy. The entire coal requirement for proposed project 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. 1294.01 crores and Rs. 24.55 crores (recurring) 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.

S. No	EC Conditions
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 vehicles in a time bound manner, replace the passenger vehicles to E-vehicle 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 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 SO2 emission norms. Along with Particulate Matter, SO2, NOx and Hg, CO and CO2 shall also be monitored for stack emissions.
1.13	Ash pond area and fly ash utilization shall be as per Fly Ash Notification issued by Ministry/ CPCB from time to time.
1.14	Project proponent shall ensure that pipelines carrying the fly ash and effluent shall be inspected regularly for any leakages.
1.15	Effluent of 1200 KLD shall be treated through Effluent Treatment Plant and Sewage of 400 KLD shall be treated through Sewage Treatment Plant. As committed by the Project proponent, Zero liquid discharge shall be adopted for the proposed plant. No wastewater will be discharged outside the project site.
1.16	PP shall implement the concurrent plantation plan in a time bound manner. Total of 113.66 ha area (33.25% of total plant area of 341.85 ha) will be developed as greenbelt. A 5 m - 50 m wide (min 25 m) greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB guidelines. The height of the saplings to be planted should be of 4 feet height. The budget earmarked for the green belt plantation shall be kept in a separate account and audited annually. 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.
1.17	Project proponent shall carry out community plantation with incentive scheme by distributing 50,000 saplings 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.
1.18	PP shall install 5 MW Solar Energy Plant for conservation measures. Action plan in this regard shall be submitted to the Regional Office of the MoEF&CC and SPCB within two years from the date of grant of EC.

S. No	EC Conditions
1.19	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.
1.20	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.
1.21	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.
1.22	PP shall deploy vacuum based vehicle for everyday cleaning of the road in and around plant site at least for 5 KM.
1.23	Environment Audit of plant shall be done annually, and report shall be submitted to Regional office of the Ministry.
1.24	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.
1.25	Oil and grease recovered from the treatment plant should be disposed only through authorized recyclers.
1.26	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.
1.27	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.
1.28	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.
1.29	PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June

S. No	EC Conditions
	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. 37.85 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. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC. 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 twice in a month.
2.5	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 conservation of trees.

## 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

S. No	EC Conditions
	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	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.
1.3	The recommendation from Standing Committee of NBWL under the Wildlife (Protection) Act, 1972 should be obtained, if applicable.
1.4	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) 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 SO2 emission norms.
3.2	Low NOX Burners with Over Fire Air (OFA) system shall be installed to achieve NOX emission standard of 100 mg/Nm3.
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/Nm3.

S. No	EC Conditions
3.4	Stack with a height of 275 meters shall be provided with continuous online monitoring instruments for SO <sub>2</sub> , 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 <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NOX within the plant and study area at four locations in consultation with MPPCB. 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 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 <sup>3</sup> /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 1200 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 400 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; Total Suspended Solids: 100 mg/l; Faecal Coliforms (Most Probable Number).

## 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

S. No	EC Conditions
	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 113.66 Ha (33.2 % of the total plant area) with indigenous native tree species in accordance with CPCB guidelines. The green belt shall inter-alia cover an entire periphery of the plant.
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, 2026.
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 measures shall also be implemented to protect the ash dyke from getting breached.
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. In case of road transportation of fly ash, the closed bulkers shall be used.
9.5	Unutilized ash if any shall be disposed off in the ash pond in the form of Medium 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.

S. No	EC Conditions
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>5. The project proponent shall (Post-EC Monitoring):</p> <ul style="list-style-type: none"> <li>i. Send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;</li> <li>j. Upload the clearance letter on the web site of the company as a part of information to the general public.</li> <li>k. 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&amp;CC) at <a href="http://parviesh.nic.in">http://parviesh.nic.in</a>.</li> <li>l. Upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;</li> <li>m. Monitor the criteria pollutants level namely; PM (PM10 &amp; PM2.5 in case of ambient AAQ), SO2, Nox (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;</li> <li>n. 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&amp;CC, the respective Zonal Office of CPCB and the SPCB;</li> <li>o. Submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;</li> <li>p. 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.</li> </ul>

#### 11. Corporate Environmental Responsibility (Cer) Activities

S. No	EC Conditions
11.1	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. Statement on the commitments (activity-wise) made during public hearing to facilitate the discussion on the CER in compliance of the commitment shall be submitted.