



File No: J-13012/10/2025-IA.I(T)
Government of India
Ministry of Environment, Forest and
Climate Change
IA Division



Date 14/07/2026



To,

Sh. R N Shukla
Adani Power Limited
Adani Corporate House, Shantigram, Nr. Vaishnodevi Circle, S.G Highway, Khodiyar, Ahmedabad Pin - 382421.
E-mail: rn.shukla@adani.com

Subject: Proposed 3200 MW (4x800MW) Coal Based Ultra Super Critical Thermal Power Project by M/s Adani Power Limited at Villages Charuabakhra, Chirakuta I & II, Santoshpur, Revenue Circle Chapar, District Dhubri, Assam - Environmental Clearance (EC) – regarding

Sir/Madam,

This is with reference to your proposal number IA/AS/THE/580405/2026 dated 30.05.2026 along with a written submission dated 25.06.2026 seeking for grant of Environmental Clearance (EC) under the provision of the EIA Notification 2006 and as amended thereof for the proposed project as mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC26A0601AS5500655N
(ii) File No.	J-13012/10/2025-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
(vii) Name of Project	Proposed 3200 MW Coal Based Ultra Super Critical Thermal Power Project
(viii) Name of Company/Organization	M/s. Adani Power Limited
(ix) Location of Project (District, State)	Dhubri, Assam
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. M/s. Adani Power Limited has made an online application vide proposal no. IA/AS/THE/580405/2026 dated 30.05.2026 along with copy of EIA/EMP report, 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 does not attract general condition and is appraised at Central Level.

5. The instant Proposal was considered by the EAC (Thermal) in its 46th meeting held on 18th June, 2026. The PP has submitted the written information on 25.06.2026. 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 of M/s. Adani Power Limited located in Charuabakhra, Chirakuta I & II, Santoshpur Village, Revenue Circle Chapar, District Dhubri, Assam is for setting up of a new power plant with a capacity of 3200 MW.

7. Compliance to MoEF&CC Notification dated 11/07/2025 regarding SO2 emission norms:
- i. Categorization details of TPP: Yet to be done as the project is of green field in nature
 - ii. Sulfur content of the coal to be fired in the boiler: <0.50 (%)
 - iii. Status of SO2 emission control facility for the existing unit: Not applicable as the project is of green field in nature
 - 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: 275 m Chimney (2 Bi-Flue stack with RCC shell) are proposed.

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

Proposal No with date	Consideration	Details	Date of accord	ToR Validity
IA/AS/THE/560845/2025	35 th EAC meeting	24.12 2025	19.01.2026	18.01.2030

9. Environmental site settings:

S. No.	Particulars	Details		Remarks																
1.	Total Land	585 Ha (Govt.:466.3 Ha, Private: 118.7 Ha)		Land use: Industrial																
2.	Land use break up	<table><tr><th>Description</th><th>Propose Area (In Hectares)</th></tr><tr><td>Main Plant (Including BTG, Water Facility(CT), AHP Facility, Switchyard & Misc. Facility)</td><td>100</td></tr><tr><td>Coal Stock Yard, CHP (Including Rail Yard)</td><td>70</td></tr><tr><td>Reservoir</td><td>20</td></tr><tr><td>Green belt (33% of total area)</td><td>193</td></tr><tr><td>Ash Dyke</td><td>70</td></tr><tr><td>Others: [Land for Future expansion including CGU (11 Ha)]</td><td>132</td></tr><tr><td>Total</td><td>585 Ha</td></tr></table>	Description	Propose Area (In Hectares)	Main Plant (Including BTG, Water Facility(CT), AHP Facility, Switchyard & Misc. Facility)	100	Coal Stock Yard, CHP (Including Rail Yard)	70	Reservoir	20	Green belt (33% of total area)	193	Ash Dyke	70	Others: [Land for Future expansion including CGU (11 Ha)]	132	Total	585 Ha		The land is allotted by APDCL, Govt. of Assam
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Total	585 Ha																			
Land use break up for railway siding and water supply • The request letter for RoW/RoU land (outside the Project Boundary) for Railway Siding was submitted to APDCL. • The Railway siding (Station) is located at a distance of 4.8 km from the project site. Dedicated railway siding will be developed within the project/plant area by laying railway line from Bilasipara Railway station to TPP.																				

		- The total land requirement (RoW) will be about 53.877 ha, comprising ~28.385 ha of Government land and ~25.492 ha of private land which will be provided by APDCL. - The request letter submitted to APDCL for RoU land (outside the Project Boundary) for dedicated water pipeline. The land requirement under RoU will be about 7.583 ha, comprising ~4.4486 ha of Government land and ~3.1339 ha of private land which will be provided by APDCL.																																																																	
3.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 & 19/02/2025	The land is already allotted by APDCL, Govt. of Assam	The land is allotted by APDCL, Govt. of Assam																																																																
4.	Existence of habitation & involvement of R&R, if any.	Project site: Name of villages - Charuabakhra, Chirakuta I & II, Santoshpur- No R&R Study area: <table border="1"> <thead> <tr> <th>S. No.</th><th>Habitation</th><th>Distance (km)w.r.t. TPP</th><th>Direction</th></tr> </thead> <tbody> <tr><td>1</td><td>Charua Bhakhra</td><td>0.6</td><td>NW</td></tr> <tr><td>2</td><td>Chirakuta Pt I</td><td>1.0</td><td>W</td></tr> <tr><td>3</td><td>Chirakuta Pt II</td><td>1.1</td><td>S</td></tr> <tr><td>4</td><td>Santoshpur</td><td>1.1</td><td>SE</td></tr> <tr><td>5</td><td>Baniapara Pt II</td><td>5.3</td><td>E</td></tr> <tr><td>6</td><td>Baniapara Pt I</td><td>4.5</td><td>SE</td></tr> <tr><td>7</td><td>Salkocha</td><td>4.3</td><td>SE</td></tr> <tr><td>8</td><td>Geravita</td><td>4.0</td><td>SW</td></tr> <tr><td>9</td><td>Gourangtari Pt I</td><td>2.5</td><td>NE</td></tr> <tr><td>10</td><td>Hapapara</td><td>1.5</td><td>N</td></tr> <tr><td>11</td><td>Khamarpara</td><td>3.4</td><td>SE</td></tr> <tr><td>12</td><td>Tokrabandha</td><td>2.4</td><td>SW</td></tr> <tr><td>13</td><td>Bilasipara</td><td>5.0</td><td>E</td></tr> <tr><td>14</td><td>Jamduar Pt II</td><td>2.7</td><td>NW</td></tr> <tr><td>15</td><td>Chandardinga</td><td>7.0</td><td>SE</td></tr> </tbody> </table>	S. No.	Habitation	Distance (km)w.r.t. TPP	Direction	1	Charua Bhakhra	0.6	NW	2	Chirakuta Pt I	1.0	W	3	Chirakuta Pt II	1.1	S	4	Santoshpur	1.1	SE	5	Baniapara Pt II	5.3	E	6	Baniapara Pt I	4.5	SE	7	Salkocha	4.3	SE	8	Geravita	4.0	SW	9	Gourangtari Pt I	2.5	NE	10	Hapapara	1.5	N	11	Khamarpara	3.4	SE	12	Tokrabandha	2.4	SW	13	Bilasipara	5.0	E	14	Jamduar Pt II	2.7	NW	15	Chandardinga	7.0	SE	Status of R&R. – No R&R involved. The land is allotted by APDCL, Govt. of Assam
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6.	Latitude and Longitude of all corners of the project site.	A. Plant Site <table><tr><th>S. No.</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>26°13'50.10"N</td><td>90°16'58.93"E</td></tr><tr><td>2</td><td>26°14'6.60"N</td><td>90°17'41.64"E</td></tr><tr><td>3</td><td>26°14'26.69"N</td><td>90°18'2.40"E</td></tr><tr><td>4</td><td>26°14'37.75"N</td><td>90°18'47.05"E</td></tr><tr><td>5</td><td>26°14'2.46"N</td><td>90°19'1.55"E</td></tr><tr><td>6</td><td>26°13'35.93"N</td><td>90°18'56.79"E</td></tr><tr><td>7</td><td>26°13'6.10"N</td><td>90°18'10.04"E</td></tr><tr><td>8</td><td>26°13'19.28"N</td><td>90°17'34.83"E</td></tr></table> B. Ash Pond	S. No.	Latitude	Longitude	1	26°13'50.10"N	90°16'58.93"E	2	26°14'6.60"N	90°17'41.64"E	3	26°14'26.69"N	90°18'2.40"E	4	26°14'37.75"N	90°18'47.05"E	5	26°14'2.46"N	90°19'1.55"E	6	26°13'35.93"N	90°18'56.79"E	7	26°13'6.10"N	90°18'10.04"E	8	26°13'19.28"N	90°17'34.83"E	
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7.	Elevation of the project site	63 m above mean sea level (Average)	--																																
8.	Involvement of Forest land, if any.	Status of stage I Forest Clearance: Not Applicable Area of forest land involved: No Forest land involved.	--																																
9.	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	Project site :- None Study area: <table><tr><th>S.No.</th><th>Name</th><th>Aerial Distance (Km)</th><th>Direction</th></tr><tr><td>1</td><td>Gaurang River</td><td>2.9</td><td>W</td></tr><tr><td>2</td><td>Mar Gaurang Nala</td><td>0.56</td><td>SE</td></tr><tr><td>3</td><td>Chak Chaka Lake</td><td>3.3</td><td>E</td></tr><tr><td>4</td><td>Diple Lake</td><td>3.6</td><td>N</td></tr><tr><td>5</td><td>Brahmaputra River</td><td>4.8</td><td>S</td></tr><tr><td>6</td><td>Dhakra Bill</td><td>6</td><td>NE</td></tr><tr><td>7</td><td>Dhir Lake</td><td>7.1</td><td>E</td></tr></table> Protection measures to be adopted are as follows: • Plantation and greenbelt will be developed along the plant boundary, internal roads, and available areas of the proposed Thermal Power Plant. • Landscaping and Green Carpet will be developed to minimize Soil erosion. • The Plant will be based on Zero Liquid Discharge. • ETP and STP is propose to install and treated water will be reused in AHP, CHP, Dust suppression and green belt development. • Installation of fine -mess screens at water intake to prevent entrapment of fish and other aquatic organisms. • WRD directions/ recommendations will be adhered and implemented. • Water quality will be monitored regularly. • Conservation of existing water bodies and strengthening water availability through measures such as pond deepening, connecting drainage line, storm water collection pond nearby water bodies with regular maintenance of ponds and streams. • Storm water drainage systems with sedimentation traps will be constructed to prevent siltation and contamination.	S.No.	Name	Aerial Distance (Km)	Direction	1	Gaurang River	2.9	W	2	Mar Gaurang Nala	0.56	SE	3	Chak Chaka Lake	3.3	E	4	Diple Lake	3.6	N	5	Brahmaputra River	4.8	S	6	Dhakra Bill	6	NE	7	Dhir Lake	7.1	E	HFL letter of the Gourang river is received from WRD which is 35.51 meter. Issued by WRD, Guwahati date 09.02.2026
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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	Study area Name of the ESZ/ESA: ESZ of Chakrashila Wildlife Sanctuary. Status of Notification: MoEF&CC Notification dated 08.04.2021 Distance of project from ESZ/ESA: 2.02 km in NNE direction from project site Authenticated map of ESZ projecting distance of ESZ from project site: Authenticated map certified by PCCF (Wildlife) &	--																																

		CWLW, Guwahati Status of NBWL approval: Not Applicable List of Reserved and protected forests: <table border="1"> <thead> <tr> <th>S.No.</th><th>Forests</th><th>Aerial Distance (Km)</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>1</td><td>Chakrashila Wildlife Sanctuary</td><td>5</td><td>N</td></tr> <tr> <td>2</td><td>Tokrabandha RF</td><td>2</td><td>SW</td></tr> <tr> <td>3</td><td>Dudhnath RF</td><td>1.5</td><td>S</td></tr> <tr> <td>4</td><td>Chandardinga RF</td><td>4.5</td><td>SE</td></tr> <tr> <td>5</td><td>Kaprigacha R.F</td><td>9.2</td><td>NW</td></tr> <tr> <td>6</td><td>Shrigrām R.F.</td><td>5.9</td><td>NE</td></tr> <tr> <td>7</td><td>Charalkhola R.F.</td><td>9.2</td><td>NE</td></tr> <tr> <td>8</td><td>Sarpamar R.F.</td><td>4.4</td><td>SE</td></tr> </tbody> </table> Protection measures to be adopted are as follows: • Extensive plantation to be carried out along with green belt development using native plant species to enhance vegetation cover and improve the ecological status of the area. • Nearby plantation and conservation of forest will be done in consultation with State Forest Department. • APL will enforce a prohibition on single use plastic and actively encourages the use of sustainable and eco-friendly products in and around the TPP. • Conduct awareness programs for local communities/ villages / stakeholders to conserve & promote Biodiversity importance for sustainable livelihoods.	S.No.	Forests	Aerial Distance (Km)	Direction	1	Chakrashila Wildlife Sanctuary	5	N	2	Tokrabandha RF	2	SW	3	Dudhnath RF	1.5	S	4	Chandardinga RF	4.5	SE	5	Kaprigacha R.F	9.2	NW	6	Shrigrām R.F.	5.9	NE	7	Charalkhola R.F.	9.2	NE	8	Sarpamar R.F.	4.4	SE	
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11.	Archaeological sites monuments/ historical temples etc.	None in 10 km radius study area.	--																																				
12.	Facility envisaged in CRZ area	Name of the facility in CRZ area – None within study area Recommendations of CZMA – Not Applicable Status of CRZ clearance – Not Applicable	CRZ map not applicable																																				
13.	Involvement of Critically Polluted Area/Severely Polluted area as per 2018 CEPI score	Involvement of CPA/SPA: None in project site Proximity to CPA/SPA: No CPA/SPA as declared by CPCB lies within 10 km radius area. The nearest CPA is in Brynihat Industrial area~ 159 km ESE from project site.	--																																				

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

Sr. No.	Existing Power Plant Configuration and Capacity	Proposed Power Plant Configuration and Capacity	Total	Technology Adopted
1	Not Applicable	4×800 MW	3200 MW	Ultra Super Critical

11. The details of the fuel (coal/gas/LDO) requirement for the proposed project along with its source and mode of transportation is given as below:

Details	Fuel requirement	Source	Distance from	Mode of Transportation	Coal characteristics	Linkage document
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	(MTPA)		site (Kms)		(Worst case scenario)	
Coal :						
Proposed TPP	13.27 MTPA	MCL/ECL/NECL Nearby Commercial Coal Mines & e- auction	350-690 KM	By Rail	Ash- <40 (%) Sulphur- <0.5 (%) Moisture- 13 (%) GCV – 3200 –4300 Kcal/Kg	FSA under Shakti Policy and E- auction
LDO/HSD:						
Proposed TPP	24000 KL/Annum	Local Market/Vendor	50 – 100 KM	By Road	Low Sulphur (3-5% mass)	Local Market/ Vendor

12. Water Requirement: The water requirement for the proposed project is estimated as 1,53,600 m³/day (56 MCM), out of which 1,53,600 m³/day of freshwater requirement will be obtained from the Brahmaputra River. The permission for drawl of surface water is obtained from the Water Resources Department, Guwahati vide Letter No. 433516/678 dated 09.01.2026. The water will be transported to the plant site through pipeline. The specific water consumption for the power plant will be < 2.5 m³/MWhr.

13. Power Requirement: The power requirement for the proposed project is estimated as 176 MW, which will be obtained from the nearby substation.

14. Baseline Environmental Studies:

Period	October 2025 to December 2025	Additional study (if any)
AAQ parameters at 11 Locations (min and max)	PM _{2.5} : 8.59 µg/m ³ – 24.42 µg/m ³ PM ₁₀ : 16.82 µg/m ³ – 44.90 µg/m ³ SO ₂ : BLQ (≤ 4.0) - 7.88 µg/m ³ NO _x : BLQ (≤ 5.0) - 12.91 µg/m ³ CO: BLQ (≤ 2.0) - 0.51 mg/m ³ The values of Pb, Ni, Hg, O ₃ , As, C ₆ H ₆ , BaP were found to be Below detection limit.	
Incremental level	GLC PM ₁₀ = Max. GLC: 0.684 µg/m ³ (Level at 3.5 km in SW Direction) PM _{2.5} = Max. GLC: 0.178 µg/m ³ (Level at 3.5 km in SW Direction) SO ₂ = Max GLC: 14.3 µg/m ³ (Level at 3.5 km in SW Direction) NO _x = Max GLC: 5.33 µg/m ³ (Level at 3.5 km in SW Direction)	
Ground water quality at 11 locations	pH: 6.73 to 7.29, total Hardness: 58– 169 mg/l; Chloride: 22 to 64 mg/l, Fluoride: 0.21 to 0.42 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 14 locations	pH 6.86 to 7.46, Dissolved Oxygen: 5.0 to 6.9 mg/l; BOD: 2.1 to 4.8 mg/l; COD: from 8 to 30 mg/l.	
Effluent generation details and its treatment	Effluent generation from TPP: • Industrial wastewater: 1996 KLD Mode of treatment & reuse • Industrial Wastewater: In ETP of capacity 2400 KLD. ETP treated water will be recycled in process, ash quenching and dust suppression at CHP. Domestic wastewater generation • Domestic Effluent: 22 KLD	

Period	October 2025 to December 2025					Additional study (if any)																																								
	Mode of treatment & reuse Domestic Wastewater: In STP of capacity 30 KLD. STP treated water will be reused for plantation/Green Belt development/ Horticulture.																																													
Noise levels Leq (Day and Night) at 11 locations	32.1(A) – 46.9 (A) for the day time and 30.9 (A) – 38.7 dB (A) for the Night Time.																																													
Traffic assessment study findings	- Traffic study has been conducted at National Highway-17 near Diglidol and near Khamarpara which is approximately 0.80 km towards NW and at 1.60 km towards SE direction respectively from project site. - Transportation of raw material (coal) will be done 100% by rail. - Existing PCU is 207 PCU/hr and 196 PCU/hr on NH-17 near Diglidol and near Khamarpara respectively and existing level of service (LOS) is B respectively. <table><tr><th>Road</th><th>Volume (in PCU/hr)</th><th>Capacity (in PCU/hr)</th><th>Existing V/C Ratio</th><th>LOS</th><th>Performance</th></tr><tr><td>NH-17 near Diglidol</td><td>206.8 say 207</td><td>3600</td><td>0.33</td><td>B</td><td>Very Good</td></tr><tr><td>NH-17 near Khamarpara</td><td>196.3 say 196</td><td>1500</td><td>0.31</td><td>B</td><td>Very Good</td></tr></table> - PCU load after proposed project will be 207 (NH-17 near Diglidol) & 196 at NH-17 near Khamarpara (existing) +23 (additional) PCU/Hr and Level of Service (LOS) will be : <table><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><tr><td>NH-17 near Diglidol</td><td>A ‘Excellent’</td><td>207 + 23= 230</td><td>3600</td><td>0.36</td><td>‘B’ Very Good</td></tr><tr><td>NH-17 near Khamarpara</td><td>A ‘Excellent’</td><td>196+23=219</td><td>1500</td><td>0.35</td><td>‘B’ Very Good</td></tr></table> Conclusion: The level of service (LOS) will be unaltered remains B after additional traffic due to the proposed project. Existing LOS is “B” due to NHAH work is in progress and is temporary in nature.					Road	Volume (in PCU/hr)	Capacity (in PCU/hr)	Existing V/C Ratio	LOS	Performance	NH-17 near Diglidol	206.8 say 207	3600	0.33	B	Very Good	NH-17 near Khamarpara	196.3 say 196	1500	0.31	B	Very Good	Road	Existing LOS	Changed V/C and LOS after adding generated traffic from operational phase of proposed project				V	C	V/C	Modified LOS	NH-17 near Diglidol	A ‘Excellent’	207 + 23= 230	3600	0.36	‘B’ Very Good	NH-17 near Khamarpara	A ‘Excellent’	196+23=219	1500	0.35	‘B’ Very Good	
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Road	Existing LOS	Changed V/C and LOS after adding generated traffic from operational phase of proposed project																																												
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NH-17 near Diglidol	A ‘Excellent’	207 + 23= 230	3600	0.36	‘B’ Very Good																																									
NH-17 near Khamarpara	A ‘Excellent’	196+23=219	1500	0.35	‘B’ Very Good																																									
Soil Quality at 11 Locations	pH range 6.42 to 7.24; Electrical conductivity (EC); 0.235 to 0.296 μmhos/cm; calcium content: 54.62 to 98.0 mg/kg; sodium: 15.49 to 24.6 mg/kg; potassium: 92 to 135 mg/kg; Nitrogen: 128 to 200 mg/kg; Phosphorous: 14.2 to 20.9 mg/kg; Cation Exchange Capacity (CEC): 10.8 to 17.65 meq/100gm; Magnesium: 30 to 44 mg/kg; Organic Matter: 0.82% to 1.14%																																													
Flora and fauna	23 Schedule I Species as per WP(A)A, 2022 have been observed in the study area. Wildlife conservation Plan for Schedule I species has been prepared by Reputed Govt. Institute and the approval of the same is under process.					The List of Flora & Fauna is duly certified by DFO, Dhubri vide letter no B/DBR/FOR/PERMIT/24/785/86 dated 24.02.2026.																																								
Hydrogeology study	The action plan to address the recommendation of the Hydrogeology report and Watershed management plan are as below:					Consultant details: Akshar Geo Services.																																								
	S. No	Recommendations	Action Plan																																											

Period	October 2025 to December 2025			Additional study (if any)
	1.	Construct recharge pits and percolation trenches to improve groundwater recharge	Construction of Percolation trenches (20 m × 1 m × 2 m) along 3rd–4th order streams. And recharge pits filled with gravel/sand and connect to storm drains. Quarterly monitoring of water levels in nearby wells.	
	2.	Link stormwater drains and runoff channels to recharge structures so rainwater is effectively captured and infiltrated	Storm water drain shall be connected with recharge structure and quarterly monitoring of water levels shall be done to assess recharge efficiency.	
	3.	Carry out regular monitoring of groundwater levels and water quality to assess effectiveness of the measures and ensure long term sustainability	Quarterly monitoring of water levels shall be done to assess recharge efficiency. RO/suitable treatment shall be provided to maintain water quality, if required.	
	4.	Install rooftop rainwater harvesting tanks in plant and colony areas to reduce dependence on groundwater and improve water quality	Installation rooftop tanks (20 m ³) with first-flush diversion. Stored rainwater shall be use for domestic needs. Quarterly water quality testing (pH, TDS, hardness, Iron etc.).	
	5.	Restore existing ponds by desilting, deepening, and strengthening bunds to enhance their recharge capacity	Desilting, deepening, bund strengthening, inlet/outlet regulation of existing 6 water bodies shall be done to enhance their recharge capacity.	
Impact study on biodiversity and aquatic ecology	Recommendations of study report:			Consultant details: Indian Institute of Social Welfare and Business Management (University of Kolkata in association with NABET accredited Ecology and Biodiversity Expert in 2025 p
	S. No.	Recommendations	Action Plan	
	1	Extensive greenbelt development shall be undertaken in and around the project area using native plant species with high Air Pollution Tolerance Index (APTI), large leaf area index, and high carbon sequestration potential.	About 30,000 sapling with native species having high carbon sequestration potentials, shall be planted in the surrounding villages	
	2	Waste and degraded land, along with available public land, may be identified in villages such as Killahara Pt-I and Rowkhowa Pt-I for plantation activities to enhance green cover and ecological status.	Waste and degraded areas shall be identified in consultation with village panchayat/administration for plantation activities.	

Period	October 2025 to December 2025			Additional study (if any)
	3	Water bodies located in villages such as Kamarpara, Malgaon, and Jornagra Pt. IV may be conserved through deepening, desilting, embankment strengthening, and plantation activities.	Pond deepening, desilting and bund strengthening activities shall be done in village ponds for water conservation and separate budget under CER has been kept for the same.	
	4	Installation of rainwater harvesting/storage ponds and construction/repair of check dams and anicuts within suitable watershed areas.	Watershed development plan has been prepared and budget of Rs. 1.15 Crore has been kept for the same.	
	5	Village-level biodiversity mapping may be undertaken through a participatory approach with emphasis on medicinal plants and livelihood opportunities for SHGs.	Through Adani Foundation, Local village level biodiversity mapping shall be undertaken with emphasis on incentivization of medicinal plant as Livelihood opportunity for SHGs.	
	6	Development of ecological parks in open grassland areas, such as Suapata Pt.-I, to promote biodiversity awareness and conservation.	Assistance will be provided to villages for development of ecological parks.	
	7	Enforcement of restrictions on single-use plastic and promotion of eco-friendly alternatives in and around the project area.	Noted and agreed.	
	8	Organize biodiversity conservation and management programmes for local communities and stakeholders through Adani Foundation.	Awareness program through Adani foundation shall be undertaken for biodiversity conservation.	
Risk assessment study	Project specific risk assessment with respect to storage of LDO & Coal storage and other hazardous chemicals is included in Final EIA-EMP Report. The appropriate preventive measures and necessary safeguards such as toxic and flammable gas detectors, alarm / interlock systems, breathing apparatus for 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.			Consultant details: Gaurang Environmental Solutions Pvt. Ltd.

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

S.	Type of Waste	Source	Quantity	Mode of Treatment	Disposal
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No.			generated (TPA)		
1.	Municipal Solid Waste	Plant Canteen	91 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	~3.5 TPA	Collected; segregated and disposed	Authorized Recycler
3.	Battery waste from UPS	Automotive & Industrial	~7 TPA	Collected; segregated and disposed	Authorized Vendor
4	Bio medical waste	First aid center	0.12 TPA	Collected; segregated and disposed	Authorized Vendor
5.	Hazardous waste				
a.	Used / Spent Oil (Cat.5.1)	Plant Operation	100 KL	Collected; segregated and disposed	Registered Recyclers / Reprocessor with SPCB
b.	Waste or residues Containing oil (Cat.5.2)	Plant Operation	5 TPA	Collected; segregated	Sent to Authorized Recycler
c.	Empty Barrels/ containers / liners Contaminated with Hazardous chemicals/ wastes (Cat.33.1)	Plant Operation	15 TPA	Collected; segregated and disposed	Sent to Authorized Recycler

16. Public Consultation:

Details of advertisement given	1. The Assam Tribune, dated 13.03.2026. 2. Asomiya Pratidin dated 13.03.2026.
Date of public consultation	23.04.2026
Venue	Playground of Charuabakhra Primary Health Booth (Old), Village Charuabakhra Jangal Block, Jamduar Road, Gram Panchayat Chirakuta, Revenue Circle Chapar, District Dhubri, Assam
Presiding Officer	1. Dr. Preety Lekha Deka, ACS, Co-District Commissioner, Bilasipara Co-District, District: Dhubri. 2. Er. Kulen Talukdar, Sr. Env. Engineer, Head Office, Guwahati-21, Assam Pollution Control Board. 3. Er. Kalyan Basumatary, Regional Executive Engineer, RLO Bongaigaon, Assam Pollution Control Board.
Major issues raised	For local Employment, community rural infrastructure development, education, community health & infrastructure development. Pollution control system and water management and Public expectations for modern technology, safeguards would be adopted.
No. of people attended	About 1150 Nos

Action plan as per MoEF&CC O.M. dated 30/09/2020 to address the view of public on Project

S.No	Key Area Identified under Socio-EMP (CER) based on needs highlighted during Public Hearing	Physical Target	Time bound (Year wise) expenditure (in Crores)					
A	Educational Initiatives		1 st	2 nd	3 rd	4 th	5 th	Total Budget (in Crore)
	Modernization, Repair & construction/ maintenance of identified Primary / Higher Secondary School of nearby villages of the	Identified about 4 schools	0.4	0.4	0.55	0.55	0.45	2.35

	project site in consultation with Local Government/School Authorities in villages Salkocha & Tilapara.							
	Distribution of drinking water filters/ water coolers in schools in Pukhuripara, Salkocha and others nearby villages.	About 38 schools/ villages	0.2	0.2	0.2	0.2	0.35	1.15
	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 Chirakuta, Salkocha, Santoshpur, Charuabakhra.	About 15 schools including ASDC	0.6	0.9	0.8	0.65	0.45	3.4
	Online courses for students such as Artificial Intelligence, Electric Vehicles, Renewable Energy etc. to equip students with job-ready skills through Adani Skill Development Centre (ASDC) on requirement basis in Santoshpur, Charuabakhra & other nearby villages	About 18 schools including ASDC	0.25	0.35	0.35	0.35	0.3	1.6
	Sub Total		1.45	1.85	1.9	1.75	1.55	8.5
B	Community Health Initiatives							
	Development of hospitals, strengthening of PHC's & CHC's and improvement of health facilities in Salkocha, Chirakuta & other nearby villages	2 Health Centers	0.5	0.7	1	1.1	1.1	4.4
	Rural Medical Camps through Medical Team of Primary Health Centre, Safe Menstrual Hygiene Management Awareness, Cataract Screening & Operation in Charuabakhra, Santoshpur, Gaurangtari , nearby villages.	About 4-5 camps	0.6	0.6	0.75	0.75	0.8	3.5
	Promotion of awareness of malnutrition and anemia.	About 42 schools villages	0.15	0.1	0.1	0.1	0.1	0.55
	Promotion of Poshan Vatika at backyard of villagers & Project Suposhan.	About 42 schools villages	0.1	0.2	0.15	0.15	0.15	0.75
	Sub Total		1.35	1.6	2	2.1	2.15	9.2
C	Sustainable Livelihood and Women Empowerment							
	Adani Skill Development Centre (ASDC/SDC) to train the youth under different trades viz. Welding, Fitting, Masonry & Bar-bending, Electrical, industrial machine operating & digital literacy/smart classes.	About 5 ASDCs	0.9	0.9	1	1.2	1.3	5.3
	Development & Support for vegetable cultivation and livestock management in nearby villages.	About 18 villages	0.3	0.4	0.5	0.5	0.6	2.3
	Sub Total		1.2	1.3	1.5	1.7	1.9	7.6
D	Community Infrastructure Development							
	Repairing, strengthening & Maintenance of Existing Roads in consultation with Gram Panchayats/Local Administration in Salkocha & other nearby villages along with construction of bus stop sheds.	About 5 villages	1	1	1	0.9	0.9	4.8
	To support for potable drinking water and water	About 8 villages	0.4	0.4	0.4	0.4	0.4	2

	supply in nearby villages							
	Upgradation & Renovation of sanitation facilities such as toilets in schools with priority for girls.	Provision of 10 Girls' Toilets in schools	0.25	0.65	0.65	0.75	0.75	3.05
	Provision of Solar Power and street lighting/panels in nearby schools, local health centers of nearby villages & district administration.	About 15 numbers	0.3	0.4	0.5	0.5	0.4	2.1
	Sub Total		1.95	2.45	2.55	2.55	2.45	11.95
E	Sports & Culture Development							
	Promotion of sports for youths and women	About 5 villages	0.1	0.1	0.1	0.1	0.1	0.5
	Cultural activities for villagers	About 8 villages	0.05	0.05	0.05	0.05	0.05	0.25
	Sub Total		0.15	0.15	0.15	0.15	0.15	0.75
F	Tree plantation in Govt. School and Community Health Centre in Villages Santoshpur, Charuabakhra, Chirakuta, Gaurangtari, nearby villages	About 30,000 saplings in 5 years	0.6	0.7	0.4	0.4	0.4	2.5
Total Budget			6.7	8.05	8.5	8.65	8.6	40.5

17. Capital Cost: The capital cost of the proposed project is Rs 36,600 Crores and the capital cost for environmental protection measures is proposed as Rs 2,608. Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 26 Crores. The employment generation from the proposed project is Construction phase: 400 (permanent) + 8000 (contractual), Operation phase: 500 (permanent) + 2000 (contractual). The details of cost for environmental protection measures is as follows:

S. No.	EMP Description	Budget (Rs. In Cr.)
1	Air Pollution Control Measures	
	a) Electrostatic Precipitator (ESP)	958
	b) Selective Catalytic Reduction (SCR), Low Nox NOx burner	280
	c) Chimney/Stack (Bi-flue)- 2 Nos.	295
	d) Dust Extraction & suppression system (Bag Filters, Cyclonic Separators)	22
2	Noise Control	8
3	Water Pollution Control	
	a) Cooling Tower including civil works	371
	b) DM Plant and Wastewater Treatment System (ETP)	110
	c) Sewerage Collection, treatment & disposal (STP)	4
4	Ash Management	
	a) Ash handling (Ash Dyke) including ash water recirculation	451
	b) Ash Disposal Work (including Silos)	63
5	Environmental Monitoring & Management	
	a) Environmental Laboratory & Environmental Monitoring & HW Management	11
	b) CEMS, CAAQMS, EQMS monitoring system & main gate display board	12
6	Green Belt Development	18
7	Others	
	Rainwater harvesting	6
	Solar Power Harnessing	2
	Grand Total	2,611

18. Greenbelt Development Plan: Proposed greenbelt will be developed in 193 ha which is about 33% of the total project area. A 20-50 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 4,82,500 saplings will be planted and nurtured in 193 hectares in 5 years.

19. Ash management:

Details	Annual generation (MTPA)	Utilization (MTPA)	% of utilization	Balance quantity (MTPA)	No of storage silos with capacity
Ash (Fly and Bottom)	5.31	5.31	100 %	0	6x2500 MT

A. Ash Pond details:

S. No.	Details of Ash Pond	Ash Pond
1	Area (Ha)	70
2	Dyke Height (m)	15
3	Volume (m³)	105 Lac m³
4	Quantity of Ash to be Disposed (Metric Tons)	115.5 Lakh MT
5	Expected Life of Ash Pond (Number of Years and Months)	Life of ash dyke is calculated as 20 years
6	Type of Lining Carried in Ash Pond	HDPE
7	Mode of Disposal	HCSD/MCSD
8	Ratio of Ash : Water in Slurry Mix (1:--)	65:35
9	Ash Water Recycling System (AWRS)	Yes
10	Quantity of Wastewater from Ash Pond to be Discharged into Land or Water Body (m³)	0
11	Details regarding dyke stability study and name of the organization who conducted the study	Shall be done during operational phase of the plant.

B. Ash utilization plan:

S. No.	Activity (as applicable)	Quantity	Percentage
1	Fly ash based products (bricks or blocks or tiles or fiber cement sheets or pipes or boards or panels)	0.106	2 %
2	Cement manufacturing	4.248	80 %
3	Construction of roads, road and fly over embankment	0.956	18 %
	Total	5.31	100 %

20. Comments of State Pollution Control Board, Assam: As per Ministry's OM dated 14.01.2025 and SOP dated 08.10.2025 issued on 09/03/2026

- Project Proponent must obtain all necessary permission/clearances from various Govt. Authorities as applicable for the project.
 - The project proponent shall develop a greenbelt/plantation area with native trees only at least 33% of the total plot area to develop Green Belt and Carbon Sink.
 - Personnel working industry areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects.
 - The project authority should implement the CSR & EMP Plan properly.
 - Project Proponent must comply the recommendation related to Environmental Safeguard, Water Pollution Safeguard, Air Pollution Safeguard, Solid, E Waste and Hazardous Waste Management
- In addition to the above, proponent paid a fee of Rs. 7,00,547.20 towards CTE Fees online on 18.02.2026.

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

A. Summary of court cases: Nil

B. Summary of Show Cause Notices: Nil

C. Further, there is no violation cases under the Environmental Protection Act, 1986, Van (Sanraksha Evam Samvardhan)

22. Written Submission:

Query 1: Revised Land use breakup of TPP and revised Plant Layout Plan as per 33% Greenbelt Area as per comments of APCB.

Reply: The revised land use details with breakup considering 33% greenbelt/plantation as below:

Description	Propose Area (In Hectares)
Main Plant (Including BTG, Water Facility(CT), AHP Facility, Switchyard & Misc. Facility)	100
Coal Stock Yard, CHP (Including Rail Yard)	70
Reservoir	20
Green belt (33% of total area)	193
Ash Dyke	70
Others: [Land for Future expansion including CGU (11 Ha)]	132
Total	585 Ha

Query 2: The updated Greenbelt Action Plan (33%) with updated Plant Layout is to be submitted

Reply: The revised Greenbelt action plan considering 33% along with budget allocation is given below.

Action Plan for Greenbelt Development

Total Plot area	585 Ha.
Total Greenbelt area	193 Ha (33 % of the Project Area)
Tree to tree distance	2 m
Minimum width of greenbelt area	20 m
Trees Calculation	2500 Trees /Ha
Total trees to be provided	4,82,500 nos.

Years	Area (Ha.)	No. of Trees	Capital cost	Recurring cost/Annum
2026-27	25	62500	Plantation/ Greenbelt development	Maintenance/ Casualty replacement
2027-28	35	87500		
2028-29	30	75000		
2029-30	40	100000		
2030-31	45	112500		
Remaining Area gap filling	18	45000		
Total	193	482500	14 Crores	4 Crores
Grand Total			18 Crores	

Revised EMP is given below:

S. No.	EMP Description	Budget (Rs. In Cr.)
1	Air Pollution Control Measures	
	a) Electrostatic Precipitator (ESP)	958
	b) Selective Catalytic Reduction (SCR), Low Nox NOx burner	280
	c) Chimney/Stack (Bi-flue)- 2 Nos.	295
	d) Dust Extraction & suppression system (Bag Filters, Cyclonic Separators)	22
2	Noise Control	8
3	Water Pollution Control	
	a) Cooling Tower including civil works	371
	b) DM Plant and Wastewater Treatment System (ETP)	110
	c) Sewerage Collection, treatment & disposal (STP)	4

4	Ash Management	
	a) Ash handling (Ash Dyke) including ash water recirculation	451
	b) Ash Disposal Work (including Silos)	63
5	Environmental Monitoring & Management	
	a) Environmental Laboratory & Environmental Monitoring & HW Management	11
	b) CEMS, CAAQMS, EQMS monitoring system & main gate display board	12
6	Green Belt Development	18
7	Others	
	Rainwater harvesting	6
	Solar Power Harnessing	2
	Grand Total	2,611

Query 3: The budgetary allocation for Watershed Management Plan to be increased

Reply: The budgetary allocation for watershed management plan has been increased to Rs. 1.15 Crore.

Query 4: Revised Public Hearing Action Plan including Physical and Financial Target

Reply: Revised PH Action plan is given below

S. No	Key Area Identified under Socio-EMP (CER) based on needs highlighted during Public Hearing	Physical Target	Time bound (Year wise) expenditure (in Crores)					
			1st	2nd	3rd	4th	5th	Total Budget (in Crore)
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 Salkocha & Tilapara.	Identified about 4 schools	0.4	0.4	0.55	0.55	0.45	2.35
	Distribution of drinking water filters/ water coolers in schools in Pukhuripara, Salkocha and others nearby villages.	About 38 schools/ villages	0.2	0.2	0.2	0.2	0.35	1.15
	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 Chirakuta, Salkocha, Santoshpur, Charuabakhra.	About 15 schools including ASDC	0.6	0.9	0.8	0.65	0.45	3.4
	Online courses for students such as Artificial Intelligence, Electric Vehicles, Renewable Energy etc. to equip students with job-ready skills through Adani Skill Development Centre (ASDC) on requirement basis in Santoshpur, Charuabakhra & other nearby villages	About 18 schools including ASDC	0.25	0.35	0.35	0.35	0.3	1.6
	Sub Total		1.45	1.85	1.9	1.75	1.55	8.5
B	Community Health Initiatives							
	Development of hospitals, strengthening of PHC's & CHC's and improvement of health facilities in Salkocha, Chirakuta & other nearby villages	2 Health Centers	0.5	0.7	1	1.1	1.1	4.4

S. No	Key Area Identified under Socio-EMP (CER) based on needs highlighted during Public Hearing	Physical Target	Time bound (Year wise) expenditure (in Crores)					
	Rural Medical Camps through Medical Team of Primary Health Centre, Safe Menstrual Hygiene Management Awareness, Cataract Screening & Operation in Charuabakhra, Santoshpur, Gaurangtari, nearby villages.	About 4-5 camps	0.6	0.6	0.75	0.75	0.8	3.5
	Promotion of awareness of malnutrition and anemia.	About 42 schools villages	0.15	0.1	0.1	0.1	0.1	0.55
	Promotion of Poshan Vatika at backyard of villagers & Project Suposhan.	About 42 schools villages	0.1	0.2	0.15	0.15	0.15	0.75
	Sub Total		1.35	1.6	2	2.1	2.15	9.2
C	Sustainable Livelihood and Women Empowerment							
	Adani Skill Development Centre (ASDC/SDC) to train the youth under different trades viz. Welding, Fitting, Masonry & Bar-bending, Electrical, industrial machine operating & digital literacy/smart classes.	About 5 ASDCs	0.9	0.9	1	1.2	1.3	5.3
	Development & Support for vegetable cultivation and livestock management in nearby villages.	About 18 villages	0.3	0.4	0.5	0.5	0.6	2.3
	Sub Total		1.2	1.3	1.5	1.7	1.9	7.6
D	Community Infrastructure Development							
	Repairing, strengthening & Maintenance of Existing Roads in consultation with Gram Panchayats/Local Administration in Salkocha & other nearby villages along with construction of bus stop sheds.	About 5 villages	1	1	1	0.9	0.9	4.8
	To support for potable drinking water and water supply in nearby villages	About 8 villages	0.4	0.4	0.4	0.4	0.4	2
	Upgradation & Renovation of sanitation facilities such as toilets in schools with priority for girls.	Provision of 10 Girls' Toilets in schools	0.25	0.65	0.65	0.75	0.75	3.05
	Provision of Solar Power and street lighting/panels in nearby schools, local health centers of nearby villages & district administration.	About 15 numbers	0.3	0.4	0.5	0.5	0.4	2.1
	Sub Total		1.95	2.45	2.55	2.55	2.45	11.95
E	Sports & Culture Development							
	Promotion of sports for youths and women	About 5 villages	0.1	0.1	0.1	0.1	0.1	0.5
	Cultural activities for villagers	About 8 villages	0.05	0.05	0.05	0.05	0.05	0.25
	Sub Total		0.15	0.15	0.15	0.15	0.15	0.75
F	Tree plantation in Govt. School and Community Health Centre in Villages Santoshpur, Charuabakhra, Chirakuta, Gaurangtari, nearby villages	About 30,000 saplings in 5 years	0.6	0.7	0.4	0.4	0.4	2.5

S. No	Key Area Identified under Socio-EMP (CER) based on needs highlighted during Public Hearing	Physical Target	Time bound (Year wise) expenditure (in Crores)					
Total Budget			6.7	8.05	8.5	8.65	8.6	40.5

Query 5: Solar Power of 2 MW to be proposed

Reply: The solar power of 2 MW (1MW inside & 1MW outside the TPP) will be installed along with construction and operation phases.

Query 6: Improvement in livelihood through support to local people for improvement in Animal Husbandry and Agricultural practises

Reply: APL will work and focus for improvement in livelihood support to local people for Animal Husbandry and Agriculture through Sustainable Livelihood Development (SLD). Under the Socio- EMP (CER) program a budget of Rs. 7.6 Crores has been allocated for SLD.

Observation and deliberation of the EAC

23. The Committee observed and noted the following:

i. Instant proposal is for installation of Proposed 3200 MW (4x800MW) Coal Based Ultra Super Critical Thermal Power Project at Villages Charuabakhra, Chirakuta I & II, Santoshpur, Revenue Circle Chapar, District Dhubri, Assam by M/s Adani Power Limited.

ii. The committee observed that no alternative sites considered by the Project proponent, since the project area has been allotted specifically for the project by the Assam Power Distribution Company Limited (APDCL), Govt. of Assam. Total land requirement for the proposed project is 585 ha (Private: 118.7 Ha + Govt. 466.3 Ha). No R & R is involved in the proposed project.

iii. The EAC reviewed the KML file of the project site, as presented by the Project Proponent, along with the Decision Support System (DSS) analysis available on the PARIVESH portal using Google Earth imagery.

iv. The EAC observed that the villages (Charua Bhakhra, Chirakuta Pt I&II, and Santoshpur), Schools (Sankardev Sishu Viddya Nicatan, Salkocha, Govt Model College, Bilasipara and Silgara ME School, Silgara) and hospitals (Salkocha Hospital, Silkocha) are located within 3 Km distance of the proposed project site.

v. No forest land is involved in the proposed project area.

vi. EAC observed that the Mar Gaurang Nala is located adjacent to the project site, and therefore, flow and biodiversity of Nalla will be maintained by the PP.

vii. The Gaurang River is located at a distance of approximately 2.9 km. from the project boundary. The authenticated High Flood Level (HFL) of Gaurang River is 35.5 m. as per the letter dated 09.02.2026 obtained from WRD, Guwahati.

viii. As per the DSS analysis, Reserve and Protected forest are located outside the project site and within study area which are Dudhnath RF. (S, at 1.5km), Tokrabandha RF. (SW, at 2 km), Sarpamar R.F.. (SE, at 4.4 km), Chandardinga RF. (SE, at 4.5 km), and Chakrashila Wildlife Sanctuary. (N, at 5 km).

ix. Chakrashila Wildlife Sanctuary is located at a distance of 5.2 Km and 2.52 km from Eco sensitive zone from the proposed TPP. There are no national parks, Biosphere Reserves, Tiger/Elephant Reserves and Corridors within 10 km distance from the project site as ascertained from DSS.

x. The water requirement for the proposed project is estimated as 1,53,600 m³/day (56 MCM), out of which 1,53,600 m³/day of freshwater requirement will be obtained from the Brahmaputra River. The permission for drawl of surface water is obtained from the Water Resources Department, Guwahati vide Letter No. 433516/678 dated 09.01.2026. The

water will be transported to the plant site through pipeline. The specific water consumption for the power plant will be < 2.5 m³/MWhr.

xi. The power requirement for the proposed project is estimated as 176 MW, which will be obtained from the nearby substation.

xii. The capital cost of the proposed project is Rs 36,600 Crores and the capital cost for environmental protection measures is proposed as Rs 2,608. Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 26 Crores. The employment generation from the proposed project is Construction phase: 400 (permanent) + 8000 (contractual), Operation phase: 500 (permanent) + 2000 (contractual).

xiii. Coal requirement for the proposed project is about 13.27 MTPA that will be sourced from Nearby Commercial Coal Mines (MCL/ECL/NECL) & e-auction and transported through railway wagons. There will be no road transportation of coal for proposed project. Only LDO/HSD (24,000 KL/ Annum) will be transported by road.

xiv. The Proposed greenbelt will be developed in 193 ha which is about 33% of the total project area. Thus, total of 193 ha area (33% of total project area) will be developed as greenbelt. A 20 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 4,82,500 saplings will be planted and nurtured in 193 hectares in 5 years.

xv. The project site is not located within a Critically Polluted Area (CPA) or Severely Polluted Area (SPA).

xvi. Ash pond will be developed in 70 ha area (i.e., 0.02 Ha/MW) with 15 m of ash dyke height. About 5.31 MTPA ash (Fly Ash: 4.25 MTPA + Bottom ash: 1.06 MTPA) will be generated and the same will be disposed with 100 % utilization by cement manufacturing, bricks manufacturing industries and filling mines etc. Unused fly ash, if any, will be stored 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 rainwater harvesting system shall be provided to collect the run-off for ground water recharging

xviii. EAC deliberated on construction of stack height and observed that stack height for proposed plant would be 275 m. as per the provisions contained under Notification no GSR 465 (E) dated 11/07/2025.

xix. The waste water generated (Domestic 22 KLD + Industrial 1996 KLD) in the proposed project shall be treated by STP (30 KLD) and ETP (2400 KLD). Zero liquid discharge (ZLD) facility shall be adopted since the cooling water, blow down water, wastewater and ash water would be recycled back to the system after suitable treatment for reuse.

xx. The Committee deliberated on the baseline data (October-December 2025) 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/Nm³, Low Nox Burner, and Dust Extraction & Suppression System to control the emission of Particulate matter, NO_x, and stack with a height of 275 m will be provided to control & regulate the air emission from the proposed project.

xxi. The Committee also deliberated on the comments of APCB and opined to incorporate the same in the EC conditions.

xxii. EAC has considered the comments of the APCB and asked the Project Proponent to increase the Greenbelt area to at least 33% and revise the plant layout to increase the width of Greenbelt along the plant boundary.

xxiii. EAC asked the Project Proponent to explore the feasibility of Bottom Ash handling and develop the Fly Ash storage area for 24 hrs.

xxiv. EAC asked the Project Proponent to revise the Water Shed Management plan including all the water body in study area and rejuvenate the ponds in study area.

xxv. Project Proponent has proposed 1 MW solar power in the Power Plant, however, EAC suggested the PP to increase the Solar Power to 2 MW.

xxvi. EAC asked the Project Proponent to develop the railway siding to the earliest so that no coal can be transported by road.

xxvii. EAC asked the Project Proponent to develop the 3 tier Greenbelt Development all along the plant boundary and develop the Smart Classes and toilets in the nearby schools.

xxviii. EAC asked the Project Proponent to make an Action plan for Animal Husbandry and Agriculture improvement plan for the study area.

xxix. 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.

xxx. 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.

xxxi. EAC deliberated on the written submission submitted by the Project Proponent and found it satisfactory.

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 3200 MW (4x800MW) Coal Based Ultra Super Critical Thermal Power Project by M/s Adani Power Limited at Villages Charuabakhra, Chirakuta I & II, Santoshpur, Revenue Circle Chapar, District Dhubri, Assam*”, 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 Adani Power Limited** for “*Proposed 3200 MW (4x800MW) Coal Based Ultra Super Critical Thermal Power Project at Villages Charuabakhra, Chirakuta I & II, Santoshpur, Revenue Circle Chapar, District Dhubri, Assam*” 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 Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
2. The Member Secretary, CGWA, 18/11 Jamnagar House Man Singh Road, Central, Delhi, cgwa@nic.in
3. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in
4. The Member Secretary, SPCB/PCC, Bamunimaidan, Guwahati, Assam, membersecretary_1@pcbassam.org
5. The Secretary, Ministry of Power, Shram Sakti Bhawan Rafi Marg, North, Delhi, secy-power@nic.in

Annexure 1

1. [A] Environmental Management

S. No	EC Conditions
1.1	Project proponent shall ensure that 100% utilization of ash generated from 4x800 MW in accordance with the ash utilization notification dated 31/12/2021 and its subsequent amendment. Area for the ash pond proposed for the Power Plant (4x800MW) shall not exceed 70 Ha as committed. Ash pond shall be lined, fenced and a green belt shall be developed all along the periphery of the ash pond area.
1.2	All the environmental safeguards prescribed by the Assam Pollution Control Board on 09/03/2026 for the instant proposal in pursuance to the MoEF&CC O.M. dated 14.01.2025 and its subsequent amendment shall be complied with. Compliance in this regard shall be submitted to the Regional Office of MoEF&CC along with the six-monthly compliance report.
1.3	Project proponent shall install Four Continuous Ambient Air Quality Monitoring Stations (CAAQMS) in and around the plant area and at the location at which Maximum GLC is occurring in consultation with APCB within one year from the date of grant of EC as committed.
1.4	Project proponent shall comply with the recommendations made in the aquatic Ecology & Biodiversity assessment report, Hydrology and Hydrogeology study, 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.
1.5	The coal requirement for the proposed project is about 13.27 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.
1.6	The water requirement for proposed project is estimated as 1,53,600 m ³ /day and the same shall be met from Brahmaputra River. The specific water consumption shall be less than 2.5 m ³ /MWhr.
1.7	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.
1.8	Project proponent shall implement the protective measure proposed in EMP in a time-bound manner. The budget earmarked for the same is Rs. 2611 crores and Rs. 26 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.
1.9	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.
1.10	Project proponent shall carry out study on site specific design earthquake parameters for proposed 3200 MW power project through reputed institute within a time frame of six months from the date of grant of EC as the proposed project site lies in an Earthquake sensitive zone V as per IS 1893

S. No	EC Conditions
	(Indian Seismic Code). Recommendations of the study report and its implementation status shall be submitted to the Regional Office along with the six monthly compliance report.
1.11	Project proponent shall ensure that diesel operated vehicles will be switched over to E-Vehicles/BS6/CNG/LNG in a time bound manner and 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 Bulkiers 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 1996 KLD will be treated through Effluent 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 install 2 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. PP should explore more opportunities to put solar PV in nearby Schools and other Government buildings also.
1.17	PP shall implement the concurrent plantation plan in a time bound manner. Total of 193 ha area (33% of total project area) will be developed as greenbelt. A 20 - 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. The height of the saplings to be planted should be of minimum of 2 meter 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.
1.18	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.
1.19	Wildlife conservation plan 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

S. No	EC Conditions
	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. The strength of the shoulders of these roads portion shall be maintained adequate and no dust/ash shall be accumulated on the shoulders. 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 2026 (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 2024 on the occasion of the World Environment Day to increase the forest cover across the

S. No	EC Conditions
	Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.
1.30	Project Proponent can implement Action Plan for Animal Husbandry and Agriculture improvement in the study area. A report along with photograph on the measures taken shall also be included in the six monthly compliance report submitted by PP.

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. 40.5 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 and improve the existing Government 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

S. No	EC Conditions
	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	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/Nm ³ .

S. No	EC Conditions
3.3	High efficiency Electrostatic Precipitators (ESPs) shall be installed and maintained in each unit to ensure that particulate matter (PM) emission to meet the stipulated standards of 30 mg/Nm ³ or less.
3.4	Stack with a height of 275 meters shall be provided with continuous online monitoring instruments for SO ₂ , NO _x 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 , NO _x within the plant area and in the buffer area, at four locations in consultation with ASPCB. 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 Occupational health 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

S. No	EC Conditions
	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 2.5 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 including Arsenic (As), 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 1996 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 22 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.

S. No	EC Conditions
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). Low sulphur fuel shall be used.
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.
7.6	As the plant is located in the high-risk earthquake zone, disaster management plan be prepared for the same and adequate safety measures be taken.

8. Green Belt And Biodiversity Conservation

S. No	EC Conditions
8.1	Green belt shall be developed in an area of 193 ha (33% of the total project 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.
8.3	PP shall distribute 25000 plants of not less than 2 meter height, mainly fruit plants especially to the farmers in the study area with incentive for 5 years.

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.
9.5	Unutilized ash if any shall be disposed off in the ash pond in the form of High Concentration Slurry

S. No	EC Conditions
	method for fly ash and LCSD for Bottom Ash.

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	The project proponent shall (Post-EC Monitoring): - 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 & PM2.5 in case 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 Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company; - 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.

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 schedule 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.

