सत्यमेव जयते

Government of India
Ministry of Environment, Forest and Climate Change
IA Division
(Thermal Projects)
***

Minutes of AGENDA FOR 33rd MEETING OF THE EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL POWER PROJECTS) TO BE HELD ON 19TH NOVEMBER, 2025 DURING 10:00 - 17.00 HRS THROUGH PHYSICAL MODE meeting Thermal Projects held from 19/11/2025 to 19/11/2025

Date: 27/11/2025

MoM ID: EC/MOM/EAC/928758/11/2025

Agenda ID: EC/AGENDA/EAC/928758/11/2025

Meeting Venue: Narmada Hall MoEFCC New Delhi

Meeting Mode: Physical

Date & Time:

19/11/2025	10:30 AM	05:30 PM

1. Opening remarks

19th November, 2025 [Wednesday]

At the outset, Shri. Inder Pal Singh Matharu (I.F.S Retd.), Chairman, Expert Appraisal Committee (Thermal Power & Coal Mining) welcomed the Expert members & other participants and requested to start the proceeding as per the agenda listed for this meeting. The list of EAC members who participated in the meeting is at **Annexure – I**.

[The main PDF of MoM is enclosed at Page no. 62-115]

2. Confirmation of the minutes of previous meeting

Confirmation of the Minutes of the 32nd Meeting of the EAC (Thermal): The minutes of the 32nd Meeting of the EAC (Thermal) held on 30th October, 2025 has been confirmed by the EAC as uploaded on Parivesh.

3. Details of proposals considered by the committee

Day 1 -19/11/2025

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Expansion of existing Power Plant Phase I 1x600MW, Operational and Phase II 2x800MW Ultra Super Critical under construction by adding Phase III 2x800MW, Ultra Super Critical TPP at Villages Chhote & Bade Bhandar, Barpali, Kotma and Sarwani, Tehsil Pussore, District Raigarh, Chhattisgarh by Adani Power Limited, Raigarh by **Adani Power Limited** located at **RAIGARH,CHHATTISGARH**			
Proposal For		Fresh ToR	
Proposal No	**File No**	**Submission Date**	**Activity Sub-Activity (Schedule Item)**
IA/CG/THE/554780/2025	J-13012/57/2008.IA. II(T)	04/11/2025	Thermal Power Plants Coal/Lignite based plants (1(d))

3.1.2. Project Salient Features

Agenda No 33.1

33.1: Expansion of existing Power Plant Phase-I 1x600MW (Operational) and Phase II 2x800 MW Ultra Super Critical (under construction) by adding **Phase III 2x800MW Ultra Super Critical TPP** by M/s. **Adani Power Limited** located at Villages Chhote & Bade Bhandar, Barpali, Kotmara and Sarwani, Tehsil Pussore, **District Raigarh,** Chhattisgarh – **Prescribing of Terms of Reference (ToR) – reg.**
[Proposal No: IA/CG/THE/554780/2025] [F. No. J-13012/57/2008.IA. II(T)]

33.1.1: **M/s. Adani Power Limited** has made an online application vide proposal number **IA/CG/THE/554780/2025** dated **16/10/2025** in the prescribed format (CAF, Form – I Part A & B) along with the copy of Pre-Feasibility Report and proposed Terms of References for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at item no. 1(d) Under Category "A" of the schedule of the EIA Notification and appraised at Central Level. The project do not attract the provisions of the general condition of the EIA Notification, 2006.

Name of the EIA consultant: **M/s GreenC India Consulting Private Limited. [**Listed at 124**,** Certificate No. NABET/EIA/2326/RA 0297 dated 25/08/2023 valid up to 22/02/2026].

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

33.1.2: The proposed project is for expansion of existing Power Plant Phase-I 1x600MW (Operational) and Phase II 2x800 MW Ultra Super Critical (under construction) by adding Phase III 2x800MW, Ultra Super Critical TPP at Villages Chhote & Bade Bhandar, Barpali, Kotmara and Sarwani, Tehsil Pussore, District Raigarh, Chhattisgarh by M/s. Adani Power Limited, Raigarh.

33.1.3: The existing project "1X600MW Phase-I Coal based Thermal Power Project" was accorded environmental clearance vide lr.no. J 13012/57/2008·IA.II (T) dated 20.05.2010 and subsequently the EC was amended on 16.04.2015, 26.11.2019 and 30.07.2020. The EC was transferred from M/s KWPCL to M/s REGL on dated 22.10.2019, and thereafter from M/s REGL to M/s APL on 24.04.2023. The EC for phase II project was granted vide lr. no. J-13012/57/2008.IA.II (T) dated 01.01.2025 for setting up a USCTPP 1600 MW (2x800MW, Phase II). The Consent to Establish (CTE) for Phase-I and II was issued by the CECB, Raipur on 25/08/2010 and 14.02.2025 respectively. The CTE for phase –II (2x800MW) is valid up to

14.02.2030. The Consent to Operate (CTO) renewal for existing phase-I "1x600 MW" was accorded by CECB vide lr. No. 12341/TS/CECB/2025 dated 28.03.2025, and is valid up to 31.03.2028.

In addition to the above, status of compliance to the SO_2 emission norms as per the MoEF&CC Notification dated 11/07/2025:

i. Categorization details of TPP: "C"

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

iii. Status of SO_2 emission control facility for existing unit: SO_2 emission control facility for existing unit (1x600MW and 2x800MW) with 275m high Chimney height is in place in accordance with the MOEF&CC Notification dated 11.07.2025.

iv. Action plan for installation of new stack in compliance to the notification no. GSR 742 (E) dated the 30/08/1990 for the proposed expansion: 275 Meters Common chimney with bi-flue is proposed for 2x800 MW.

33.1.5: Environmental site settings:

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>1.</td><td>Total Land</td><td>Total land = 540.71 Ha (Private 531.565ha ; Govt. land 9.145 ha)</td><td>355.71 Ha land is under possession and acquisition of proposed land of 185 ha is under process.</td></tr>
<tr><td>2.</td><td>Land use break up</td><td>
<table>
<tr><th>Details</th><th>Existing Area-Phase I (In Hectare)</th><th>Existing Area-Phase II (In Hectare)</th><th>Proposed Area-Phase III (In Hectares)</th></tr>
<tr><td>Main Plant</td><td>10.11</td><td>22.25</td><td>22</td></tr>
<tr><td>Coal Handling System</td><td>23.47</td><td>24.28</td><td>39</td></tr>
<tr><td>Water System</td><td>7.28</td><td>11.33</td><td>11</td></tr>
<tr><td>Switch Yard</td><td colspan="3">NIL*</td></tr>
<tr><td>Green belt</td><td>67.58</td><td>49.82</td><td>46.25</td></tr>
<tr><td>Roads</td><td colspan="3">NIL*</td></tr>
<tr><td>Ash pond</td><td>72.84</td><td>-</td><td>24</td></tr>
<tr><td>Railway Siding</td><td colspan="3">Outside plant boundary</td></tr>
<tr><td>Water supply pipeline (inside plant boundary)</td><td colspan="3">NIL*</td></tr>
<tr><td>Ash transport</td><td colspan="3">NIL*</td></tr>
</table>
</td><td>Land acquisition of 185 ha for proposed project (Phase-III 2x800MW) is under Process, documents shall be submitted along with EC application.</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>pipeline</td><td colspan="3"></td></tr>
<tr><td>Others (including township, plant road, boundary road, Misc., etc.)</td><td>25.49</td><td>41.26</td><td>42.75</td></tr>
<tr><td>Sub Total</td><td colspan="2">355.71 Ha</td><td>185 Ha</td></tr>
<tr><td>Total</td><td colspan="3">540.71 Ha</td></tr>
<tr><td colspan="4">* Included in Main Plant Area</td></tr>
</table>
Note: Out of a total of 540.71 Ha land, 355.71Ha of land (For existing project) are already in possession of M/s. APL. An additional 185 Ha of land required for proposed project (Phase III, 2x800MW), is currently under transfer and mutation process with the Government of Chhattisgarh.
</td><td></td></tr>
<tr><td>3.</td><td>Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 & 20.02.2025</td><td>The additional land of 185 ha for Phase III is under transfer and mutation with Gov. of Chhattisgarh
Existing (Phase I & II): 355.71 ha Land is already in possession.</td><td>Phase III Land Documents will be submitted along with Final EIA- EMP and EC application.</td></tr>
<tr><td>4.</td><td>Existence of habitation & involvement
of R&R, if any.</td><td>Project site: Bade Bhandar, Chhote Bhandar, Kotmara, Barpali and Sarwani, Tehsil Pussore, District Raigarh, C.G.
Study Area:
<table>
<tr><th>Habitation / village</th><th>Distance (Km)</th><th>Direction</th></tr>
<tr><td>Kotmara</td><td>Adjacent</td><td>N</td></tr>
<tr><td>Barpali</td><td>Adjacent</td><td>NE</td></tr>
<tr><td>Sarvani</td><td>Adjacent</td><td>S</td></tr>
<tr><td>Jatari</td><td>1</td><td>E</td></tr>
<tr><td>Supa</td><td>1</td><td>E</td></tr>
<tr><td>Amlibhauna</td><td>2.5</td><td>S</td></tr>
<tr><td>Chandrapur</td><td>5.5</td><td>SW</td></tr>
<tr><td>Pusalda</td><td>2</td><td>E</td></tr>
<tr><td>Chikhali</td><td>3.7</td><td>NE</td></tr>
<tr><td>Balpur</td><td>3.8</td><td>SE</td></tr>
<tr><td>Bunga</td><td>4.2</td><td>SE</td></tr>
<tr><td>Ghughawa</td><td>4.2</td><td>NW</td></tr>
<tr><td>Ruchida</td><td>4.25</td><td>N</td></tr>
<tr><td>Bonda</td><td>4.9</td><td>E</td></tr>
<tr><td>Kensara</td><td>5</td><td>NE</td></tr>
</table>
Protective measures adopted are as follows:
· Dedicated plant approach roads avoiding villages.
· Covered trucks and speed control within 25 km/h Warning signage near village road junctions.
· Periodic health check-up camps in villages.
· Distribution of masks during peak construction Supply of treated drinking water
· Livelihood enhancement programs (skill training, vendor incl</td><td>Status of R&R:
Details will be submitted along with Final EIA-EMP and EC application.</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>usion)
· Preference to local employment
· Community development under CSR
· Village-level grievance cell
· Monthly community interaction meetings
· Toll-free helpline and grievance log
· Acoustic enclosures for turbines and DG sets.
· Construction limited to daytime hours near habitations.
· Plantation buffers along plant boundary
· Zero Liquid Discharge (ZLD) policy
· Lined drains and leak-proof ash slurry pipelines</td><td></td></tr>
<tr><td>5.</td><td>Existence of school and hospital if any</td><td>A. School
In project site: Nil
Study Area: As below
<table><tr><th>School</th><th>Distance (KM)</th><th>Direction</th></tr><tr><td>Govt School Amlipali Pussore</td><td>0.7</td><td>W</td></tr><tr><td>Govt High School Supa</td><td>0.7</td><td>E</td></tr><tr><td>Govt Higher Secondary School Jatri</td><td>0.6</td><td>NW</td></tr><tr><td>Govt PS Kotmara</td><td>1.3</td><td>N</td></tr><tr><td>Govt PS Shankarpali</td><td>2.3</td><td>N</td></tr><tr><td>Govt UPS Girls Chandrapur</td><td>4.16</td><td>SW</td></tr><tr><td>Govt PS Bonda</td><td>4.6</td><td>SE</td></tr></table>Protective measures adopted are as follows:
● Air and Noise Control: Dust suppression, greenbelt development, and acoustic barriers will be implemented; high-noise activities will be limited to non-school hours.
● Safe Access: Signage, speed breakers, and crossing guards will be provided; heavy vehicle movement near schools will be restricted during school timings.
● Health & Awareness: Regular health camps, distribution of masks, and environmental awareness programs will be conducted for students.
● CER & Monitoring: Support for school infrastructure and scholarships will be provided under CSR; air and noise.
B. Hospital
In project site: Nil
Within Study Area
<table><tr><th>Hospital</th><th>Distance (KM)</th><th>Direction</th></tr><tr><td>Hospital, Jatari</td><td>1.4</td><td>N</td></tr><tr><td>Chikhali Sub Centre</td><td>3.84</td><td>NE</td></tr><tr><td>Bade Bhandar Public Health Centre</td><td>0.4</td><td>E</td></tr><tr><td>Ruchida Sub Centre</td><td>4.56</td><td>N</td></tr><tr><td>Palsada Sub Centre</td><td>1.54</td><td>W</td></tr></table>Protective measures adopted are as follows:
● Dust Suppression: Regular water sprinkling and fogging near access roads and work zones close to health centres.
● Greenbelt Buffer: Plantation of native species between</td><td></td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>the plant and nearest health centre to reduce air and noise impact.
● Monitoring: Third parity ambient air and noise quality wi thin 0.5 km; data shared with local health authorities.
● Noise & Vibration Control: High-noise and vibration acti vities to be scheduled outside critical healthcare hour s.
● CSR Support: Provision of medical equipment, emergen cy kits, health camps, and training to nearby health ce ntres.
● Emergency Preparedness: Health centres will be integr ated into the project's disaster response and coordinati on plans.</td><td></td></tr>
<tr><td>6.</td><td>Latitude and Long itude of all corner s of the project si te.</td><td>A. Existing Plant Site (Phase-I and II)
<table>
<tr><th>Point No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°45'07.92"N</td><td>83°16'25.37"E</td></tr>
<tr><td>2</td><td>21°45'05.19"N</td><td>83°16'42.40"E</td></tr>
<tr><td>3</td><td>21°45'04.59"N</td><td>83°16'46.64"E</td></tr>
<tr><td>4</td><td>21°44'59.76"N</td><td>83°16'54.97"E</td></tr>
<tr><td>5</td><td>21°44'47.67"N</td><td>83°17'08.40"E</td></tr>
<tr><td>6</td><td>21°44'40.52"N</td><td>83°17'06.11"E</td></tr>
<tr><td>7</td><td>21°44'29.86"N</td><td>83°17'02.82"E</td></tr>
<tr><td>8</td><td>21°44'17.40"N</td><td>83°16'59.75"E</td></tr>
<tr><td>9</td><td>21°44'09.42"N</td><td>83°17'10.55"E</td></tr>
<tr><td>10</td><td>21°44'02.09"N</td><td>83°17'03.93"E</td></tr>
<tr><td>11</td><td>21°44'03.99"N</td><td>83°16'53.96"E</td></tr>
<tr><td>12</td><td>21°43'50.43"N</td><td>83°16'49.33"E</td></tr>
<tr><td>13</td><td>21°43'44.19"N</td><td>83°16'46.05"E</td></tr>
<tr><td>14</td><td>21°43'37.64"N</td><td>83°16'38.27"E</td></tr>
<tr><td>15</td><td>21°43'50.1"N</td><td>83°16'22.98"E</td></tr>
<tr><td>16</td><td>21°43'41.32"N</td><td>83°16'20.53"E</td></tr>
<tr><td>17</td><td>21°43'49.15"N</td><td>83°16'02.52"E</td></tr>
<tr><td>18</td><td>21°44'02.77"N</td><td>83°15'54.55"E</td></tr>
<tr><td>19</td><td>21°44'21.75"N</td><td>83°15'55.35"E</td></tr>
<tr><td>20</td><td>21°44'29.30"N</td><td>83°15'59.48"E</td></tr>
<tr><td>21</td><td>21°44'46.69"N</td><td>83°16'5.021"E</td></tr>
<tr><td>22</td><td>21°44'52.46"N</td><td>83°16'21.52"E</td></tr>
</table>
B. Proposed Plant Site (Phase III)
<table>
<tr><th>Point No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°44'52.38"N</td><td>83°16'24.86"E</td></tr>
<tr><td>2</td><td>21°45'02.89"N</td><td>83°16'06.22"E</td></tr>
<tr><td>3</td><td>21°45'12.39"N</td><td>83°15'53.74"E</td></tr>
<tr><td>4</td><td>21°45'22.03"N</td><td>83°15'57.91"E</td></tr>
<tr><td>5</td><td>21°45'28.94"N</td><td>83°16'18.73"E</td></tr>
<tr><td>6</td><td>21°45'26.66"N</td><td>83°16'34.59"E</td></tr>
<tr><td>7</td><td>21°45'29.14"N</td><td>83°16'46.52"E</td></tr>
<tr><td>8</td><td>21°45'28.75"N</td><td>83°16'58.22"E</td></tr>
<tr><td>9</td><td>21°45'27.74"N</td><td>83°17'22.65"E</td></tr>
</table></td><td></td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>10</td><td>21°45'7.707"N</td><td>83°17'17.04"E</td></tr>
</table>
C. Existing pond (Phase-I and II)
<table>
<tr><th>S.No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°44'24.37"N</td><td>83°16'5.40""E</td></tr>
<tr><td>2</td><td>21°44'22.32"N</td><td>83°16'28.20"E</td></tr>
<tr><td>3</td><td>21°43'51.30"N</td><td>83°16'25.26"E</td></tr>
<tr><td>4</td><td>21°43'52.93"N</td><td>83°16'1.74"E</td></tr>
</table>
D. Proposed Ash Pond (Phase III)
<table>
<tr><th>S.No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°45'23.13"N</td><td>83°17'15.97"E</td></tr>
<tr><td>2</td><td>21°45'25.43"N</td><td>83°17'01.10"E</td></tr>
<tr><td>3</td><td>21°45'14.88"N</td><td>83°16'59.64"E</td></tr>
<tr><td>4</td><td>21°45'10.97"N</td><td>83°17'12.60"E</td></tr>
</table>
</td><td></td></tr>
<tr><td>7.</td><td>Elevation of the project site</td><td>· Average site elevation is 226 m AMSL</td><td>--</td></tr>
<tr><td>8.</td><td>Involvement of Forest land, if any.</td><td>No forest land is involved in the existing and proposed project.</td><td>--</td></tr>
<tr><td>9.</td><td>Water body (Rivers, Lakes, Pond,
Nallah, Natural Drainage,
Canal etc.) exists within the project site as well as study area</td><td>Project Site: NA
Study area:
<table>
<tr><th>S. No.</th><th>Water body</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td>1</td><td>Mand River</td><td>1.7</td><td>W</td></tr>
<tr><td>2</td><td>Kutari Nala</td><td>5.2</td><td>SW</td></tr>
<tr><td>3</td><td>Mahanadi River</td><td>5.6</td><td>S</td></tr>
<tr><td>4</td><td>Kantang Nala</td><td>7.8</td><td>S</td></tr>
<tr><td>5</td><td>Lath Nala</td><td>7.5</td><td>SW</td></tr>
<tr><td>6</td><td>Kamrel Nala</td><td>7</td><td>NW</td></tr>
<tr><td colspan="4">*Source: - with respect to S.O.I. Toposheet (w.r.t project).</td></tr>
</table></td><td>HFL of Mand River is 200.43m; Distance 1.4 KM</td></tr>
<tr><td>10.</td><td>Archaeological sites monuments/ historical temples etc.</td><td>There are no Archeological Sites present within the study area.</td><td>--</td></tr>
<tr><td>11.</td><td>Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere
reserve/ tiger reserve/elephant
Reserve etc. if any within the study area.</td><td><u>Study area</u>
Name of the ESZ/ESA: Gomarda Wildlife Sanctuary
Status of Notification: Draft Notification issued on 19/02/2016
Distance of project from ESZ boundary: ESZ boundary of Gomarda Wildlife Sanctuary is about 8 Km and project site is located at a distance of 14.9 Km from the Gomarda Wildlife Sanctuary.
Authenticated map of ESZ projecting distance of ESZ from project site: Will be submitted with EC application
Status of NBWL approval: Not required as the project site more than 10 km distance from the Gomarda Wildlife Sanctuary in terms of the MoEF&CC OM dated 17/0</td><td></td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>5/2022.
List of Reserved and protected forests:<table><tr><th>S. No.</th><th>Particulars (RF/ PF)</th><th>Distance (k m)</th><th>Direction</th></tr><tr><td>1</td><td>Damka PF</td><td>5.4</td><td>SW</td></tr><tr><td>2</td><td>Devtongri PF</td><td>10</td><td>SW</td></tr></table>No National Park, Elephant/Tiger Reserve, or migratory route s/wildlife corridor exists within 10 km of the proposed TPP. T he proposed project does not fall in any Wildlife Corridor.</td><td></td></tr>
<tr><td>12.</td><td>Facility envisaged in CRZ area (Only for coastal power plant)</td><td>Recommendations of CZMA – Not Applicable
Status of CRZ clearance – Not Applicable</td><td></td></tr>
<tr><td>13.</td><td>Involvement of Crit ically Polluted Area/Severely Pollu ted area as per 2018 CEPI score</td><td>Involvement of CPA/SPA: - Not Applicable
Proximity to CPA/SPA: - Not Applicable (The nearest CPA is Sil tara industrial area which is ~170 km from project boundary in S W Direction)</td><td></td></tr>
</table>

33.1.6: The unit configuration and capacity of existing and proposed project is given as below:

S. N o.	Existing power plant configuration and ca pacity	Proposed powe r plant configu ration and capa city	Total	Technology a dopted
1	600 (1x600) MW Sub- Critical – Operational	1600 (2x800) MW Ultra Super Critical	3800 (600+160 0+1600) MW	Sub-Critical & Ultr a Super Critical
2	1600 (2x800) MW Ultra Super Critical – Under Co nstruction			

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

Existing / pr oposed Units	Details of Fu el and Requirement (in MTPA)	Source	Distance f rom site (km)	Mode of Transp ortatio n	Coal characteristics (Worst case scenario)	Linkage documen t
Existing TPP (Phase I, 1x60 0MW)	**Domestic Co al,** 3.25 MTPA	SECL, MCL .	About 110 (Rail 85 k m & Road 25 k m)	Rail & R oad	Ash – < 4 0 (%) Sulphur - <0.5 (%) Moisture – 13 (%) GCV- 3065 K cal/Kg	Through e-auction.
Existing TPP (Phase II-Un der Constru	**Domestic Coal,** 6.6 MTPA	Bijahan coal mine and e-a uction	About 25-55 km	Rail	Ash- <4 0 (%) Sulphur- <0.5 (%)	Fuel Supp ly Agree ment (FS

Existing / proposed Units	Details of Fuel and Requirement (in MTPA)	Source	Distance from site (km)	Mode of Transportation	Coal characteristics (Worst case scenario)	Linkage document
ction, 2x800 MW)					Moisture- 13 (%) GCV – 3200-4300 Kcal/Kg	A) & e-auction.
Proposed TPP (Phase III, 2x800MW)	**Domestic Coal**, 7.67 MTPA	Nearby Commercial Coal Mine SECL/CCL/NCL & e-auction	About 60 km - 300 km	Rail	Ash- <40 (%) Sulphur- <0.5 (%) Moisture- 13 (%) GCV – 3200-4300 Kcal/Kg	FSA under Shakti Policy & e-auction.

**** MTPA – Million Ton Per Annum***

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

Existing / proposed Units	Details of Fuel and Requirement (in KL/annum)	Source	Distance from site (km)	Mode of Transportation	LDO Characteristics	Linkage document
Operational (Phase I 1x600MW)	2500 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors
Under Construction (Phase II, 2x800 MW)	8000 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors
Proposed (Phase III, 2x800MW)	8000 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors

33.1.8: Water requirement: Existing Water requirement is 137091 m^3/day (41095 m^3/day Phase I + 95996 m^3/day Phase II) obtained from Mahanadi River and the permission for the same has been obtained from WRD vide letter no IN-CG20016765166330T date 23/02/2021 and Lr. No. क्रमांक / 299/ एसआईपीबी/2021/239 dated 15.03.2024. The water requirement for the proposed project is estimated as 87,672 m^3 /day (32 MCM per annum) which will be obtained from the Mahanadi River. The application for drawl of surface water is submitted to WRD, Govt. of Chhattisgarh Vide lr.no. क्रमांक / 299/ एसआईपीबी/2025/772 dated 23.09.2025. The water will be transported to the plant site through dedicated pipeline. The specific water consumption for the power plant will be < 2.5.0 m^3/MWhr.

33.1.9: Power requirement: The power requirement for the existing project is estimated as 194MW (50+144 MW), which will be obtained from own generation. The power requirement for the proposed project is estimated as 96 MW, which will be obtained from existing operational

TPP.

33.1.10: 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.	Municipal Solid Waste (Biodegradable and Non-biodegradable)	Plant Canteen	50	Collected; segregated using color coded waste bin, Organic waste converters (OWC); No biodegradable collected and segregated	Inorganic will be disposed via local municipal authorized vendor & Organic/ Biodegradable waste by OWC. Non-biodegradable by Registered Recycler vendor
2.	E-waste	IT & Telecom Equipment	3.1	Collected; segregated	Registered Recycler vendor
3.	Battery waste from UPS	Automotive & Industrial	6.1	Collected; segregated	Authorized Vendor
4.	Bio medical waste	First aid center	0.1	Collected; segregated	Authorized vendor
5.	Hazardous Waste	Plant Operation	Used/ Spent Oil – 60 KL Waste or residues Empty Barrels/ Containers/ Contaminated Liners – 11 TPA contaminated cotton – 3.0	-	Registered Recyclers/Pre-processors with SPCB & Authorized Recyclers

33.1.11: Cost of project: The capital cost of the existing project is Rs. 16,500 Crore (for Phase I – Rs. 2900 Cr. & Phase II – Rs. 13617 Cr.). The capital cost of the proposed project (Phase III) is Rs 15,792 Crores. The capital cost for environmental protection measures is proposed as Rs 1,324 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 13 Crores. The employment generation from the proposed expansion project is 6230 (230 - permanent + 6000 -contractual) and 1772 (272 permanent + 1500 Contractual) during construction and Operation phase respectively.

33.1.12: Green belt development: Existing green belt has been developed in 117.4 ha [Phase I – 67.58 Ha + Phase II – 49.82 Ha (Under Construction)] area which is about 33 % of the total project area of 355.71 ha with total sapling of 2,93,500 Trees [Phase I – 1,68,950 nos + Phase II – 1,24,550 nos (Plantation will be developed along with plant construction)]. Proposed greenbelt will be

developed in 46.25 ha which is about 25 % of the total project area of 185 ha. Thus total 163.65 ha area will be developed as greenbelt. A 20m wide greenbelt, consisting of thick 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 1,15,625 saplings will be planted and nurtured in 46.25 hectares in 10 years.

Year	Quantity generated (MT)	Quantity utilized (MT)	% of utilization	Balance quantity (MTP)	No of storage silos with capacity
2022-23	1246303	1197979	96.10	48324	Silo 1- 1000 MT Silo 2- 2500 MT
2023-24	1282149	1121897	87.50	160252	
2024-25	1306725	1309512	100.21	-	

A. Fly ash details for last three years= 27, 60,862 TPA (2.76 Million MT)

Sl. No.	Activity (as applicable)	Quantity (TPA)	Percentage	Prior approval of SPCB details to be mentioned
1.	Fly ash based products (bricks or blocks or tiles or fiber cement sheets or pipes or boards or panels)	6,329	0.23	---
2.	Cement manufacturing	14,861	0.54	
3.	Filling up of low lying area	16,62,843	60.23	NOC from SPCB
4.	Filling of mine voids	10,76,829	39.00	NOC from SPCB
	Total	**27,60,862**	**100**	

B. Bottom ash details for last three years = 8, 68, 526 TPA (0.87 Million MT)

S. No.	Activity (as applicable)	Quantity (TPA)	Percentage	Remarks / (Prior approval of SPCB details to be mentioned)
1.	Fly ash based products (bricks or blocks or tiles or fiber cement sheets or pipes or boards or panels)	10,000	1.15	
2.	Filling up of low lying area	3,96,472	45.65	NOC from SPCB
3.	Filling of mine voids	4,62,054	53.20	NOC from SPCB
	Total	**8,68,526**	**100**	

C. Legacy ash details: Not applicable

D. Proposed ash utilization plan for expansion project:

Details	Existing Ash generation	Proposed Ash generation in MTPA	Total	Utilization (MTPA)	% of utilization	Balance quantity of Ash (MTPA)	No. of storage silos with capacity in MT
Ash (Fly & Bottom)	Phase-I 1.282 MTPA	Phase-II, 2.356; Phase-III, 3.07	6.708 MTPA	6.708 MTPA	100	0	Phase I: Silo 1- 1000MT & Silo 2- 2500 MT; Phase II: Silo 4x2500 MT; Phase III: Silo 4x2500 MT

Existing ash pond details: Existing ash pond details are given below:

S. No.	Details of Ash pond	Ash pond
1.	**Status of ash pond -**Active /Exhausted (yet to be reclaimed)/ Reclaimed)	Active
2.	Area (Ha)	72.84
3.	Dyke height (m)	12.0
4.	Volume (m^3)	84.51 Lakh m3
5.	Quantity of ash to be disposed (MillionTons)	2.355
6.	Expected life of ash pond (number of years and months)	15 yrs. Considering October' 2024 (Capacity/life of ash dyke calculated in worst scenario for 25 years)
7.	Type lining carried in ash pond: HDPE lining of LDPE lining or clay lining or No lining	HDPE
8.	Mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD).	Wet slurry (HCSD for Fly ash and LCSD for Bottom Ash)
9.	Ratio of ash: water in slurry mix (1:___):	65:35
10.	Ash water recycling system (AWRS): Yes or No	Yes
11.	Quantity of wastewater from ash pond to be discharged into land or water body (m^3)	Nil
12.	Last date when the dyke stability study was conducted and name of the organization who conducted the study:	19th June 2024, NIT, Rourkela
13	Last date when the audit was conducted and name of the organization who conducted the audit:	01.10.2023, NIT Delhi

Proposed Ash Pond details- APL has proposed an ash pond, details of which are given below:

S. No.	Details of Ash pond	Ash pond
	Area (Ha)	24
	Dyke height (m)	12.0
	Volume (m^3)	29.13 Lakh m^3
	Quantity of ash to be disposed (Metric Tons)	32,04,300
	Expected life of ash pond (number of years and months)	15 years Considering Octobe r'2030 (Capacity/life of ash dy ke calculated in worst scenari o for 25 years)
	Type lining carried in ash pond: HDPE lining of LDPE lini ng or clay lining or No lining	HDPE
	Mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LC SD).	Wet slurry (HCSD for Fly ash and LCSD for Bottom Ash)
	Ratio of ash: water in slurry mix (1:___):	65:35
	Ash water recycling system (AWRS): Yes or No	Yes
	Quantity of wastewater from ash pond to be discharged in to land or water body (m^3)	Nil

33.1.14 Baseline data collection: Base line data collection is being collected for the period October 2025 to December 2025.

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

A. Summary of court cases: There are no court case related to environment. However, the 8 cases related to land matters which are summarized as below:

S. No	Case No/ Title	Name of the Court	Brief summary of the case	Last date of hearing	Next date of hearing	Direction/ Action taken by the PP
	WPC/2829/2025	High Court	A Writ Petition has been filed to stop the construction of a railway side road/ bridge in Kurmapali village, claiming it is being built illegally on disputed land without the petitioner's consent or approval from PWD or Railway authorities. The construction is affecting access to the petitioner's petrol pump, causing business losses, and is	18.07.2025	Awaited	We are in receipt of the Petition on 06.10.2025. Reply to be filed by APL in Nov 2025 as the Next Date is not given by HC. NOC from PWD and Railway received.

S. No	Case No/ Title	Name of the Court	Brief summary of the case	Last date of hearing	Next date of hearing	Direction/ Action taken by the PP
			allegedly using poor-quality materials. The petitioner seeks a stay on work and an investigation into the matter.			
	WPC/709/2025	High Court	The petitioner claims that several plots of land, including Survey Nos. 14/1/K/1, 6/1K, 14/1/Kh/1, 14/1/Kh/2, 6/1Kh, and 6/2Kh, have been marked for acquisition without following the legal procedures under the Land Acquisition Act, 2013. The petitioner has already raised objections under Section 11 of the Act and now seeks the Hon'ble Court's direction for the District Collector, SDO, and Tehsildar to ensure proper compliance with the mandatory provisions of the law.	17.10.2025	Awaited	Reply to be filed by CSIDC as APL is not a Party in this case. APL is a beneficiary only.
	6/ B-105(3)/ 2016-17	Addl. Commissioner	Tikaram, son of Mahattar, filed a case regarding Survey No. 218/1 (area 0.817 hectares), claiming that KWPCL illegally took possession of his land without proper compensation. He suffered damage due to the encroachment, including the loss of 149 trees and farming activities on the land. He has requested the return of possession and fair compensation for the losses.	24.10.2025	19.12.2025	Addl. Comm. asked for Land Record based on appeal.
	A.P./A-6/2017-18	Addl. Commissioner	Kulkitdas is claiming ownership on land sold Kh 275/6 area 0.282 hect. of village- Shankarpali. Appeal case filed against SDM court case no. 95/ A-6/2016- 17 & Nayab tahsildar Pussour court case no. 34	24.10.2025	22.01.2026	Addl. Comm. asked for Land Record based on appeal.

S. No	Case No/ Title	Name of the Court	Brief summary of the case	Last date of hearing	Next date of hearing	Direction/ Action taken by the PP
			1/ A-6/ 2015-16. Case filed by Kulkitdas against his daughter Lata & KWPCL. KWPCL purchased land from Mrs. Lata through sale deed on 05.07.2016. Petitioner has claimed the ownership on sold land Kh 275/6 area 0.282 hect of village- Shankarpali.			
	A/84/2025	District Court	A civil suit has been filed to stop the construction of a railway side road/bridge in Kurmapali village. The plaintiff claims that the work began on 22.04.2025 using heavy machinery and labourers, without any notice or permission, and in violation of road construction rules. The construction is blocking access to the plaintiff's petrol pump and harming their business operations.	15.10.2025	12.11.2025	Arguments were made by both the Parties on 39(12). It is Listed for Order on 39(12)
	CS/72A/2020	District Court	Arjun Nishad has filed an appeal to get back possession of land that was earlier sold by his mother to a company. He claims that the company took over the land unfairly and is now requesting the court to return the land to him.	07.08.2025	22.11.2025	APL has filed their application in an Appeal and now it is pending for Reply from Applicant's Side.
	CS/12A/2012	District Court	Chandrashekhar has filed a case claiming ownership of land with Khata No. 155/8 in Chhote Bhandar village. They allege that M/s KWPCL is threatening to vacate the land and forcibly demolish their house, and they are seeking protection of their property through the court.	15.10.2025	28.11.2025	Final Argument in Counter Appeal Filed by APL

S. No	Case No/ Title	Name of the Court	Brief summary of the case	Last date of hearing	Next date of hearing	Direction/ Action taken by the PP
	CS/130A/2024	District Court	Heeradhan has filed a suit against APL in the District Court, claiming ownership of land with Survey No. 222 in Village Shankarpali. According to the petitioner, APL is pressuring them to withdraw their claim, saying the land belongs to the government. However, the petitioner states that the land was originally barren and has been cultivated by their ancestors for over 100 years, which is why they believe they have rightful ownership.	15.10.2025	21.11.2025	WS has been filed on the LDOH by APL, now it is listed for argument

B. **Summary of Show Cause Notices (SCN):** A show cause notice was issued to the project "Coal based TPP 600MW (1X600MW) at villages Bade Bhandar, Chote Bhandar, Sarwani & Amali Bhona in Raigarh, Chhattisgarh by M/s Adani power Ltd." by the MoEF&CC on 31.07.2025 for not complying with the existing EC condition obtained for 600 MW TPP. The action closue letter on the same is yet to be obtained by the proponent.

S. No	Issuing authority	Date	Reasons for issuance of SCN	Status of reply submission	Present status
1	MoEFCC	31.07.2025	Partially complied and non-complied condition in CCR	ATR has already submitted	Action closue letter on the same is yet to be obtained by the proponent

The Project Proponent (PP) has already submitted a detailed reply to MoEF&CC against the SCN vide letter dated 22.08.2022. The point-wise compliance status and clarifications furnished by the PP in response to the issues raised in the Show Cause Notice are presented in the table below.

Sr. No.	Specific Condition/ general condition of EC	Non- compliance EC condition as per issued letter dated 31.07.2025 from MoEF&CC	Compliance status/clarification submitted by PP
i	Detailed hydro-geological study shall be conducted and submitted within six months from an institute/ organization of reput to assess impact of surtace water regime. Specific mitigation measures shall be spelt out and action plan for i	PP has not submitted any documents regarding submission of the hydrological study report within 6 month along with specific mitigation measures and action plan for its implementation to the Ministry. (Specific Con	**Complied.** The hydro-geological study was initially conducted by JM Environet (P) Limited. The report was submitted to CGWA, CECB and MoEFCC on dated 06.12.2010. Subsequently studies were carried out by NIT, Roorkee & Water Solution Pvt. Ltd., report already submitted alon

Sr. No.	Specific Condition/ general condition of EC	Non- compliance EC condition as per issued letter dated 31.07.2025 from MoEF&CC	Compliance status/clarification submitted by PP
	mplementation of the same shall be provided. It shall be ensured that the area drainage is not disturbed due to the proposed power plant **(Specific condition- i)**	dition Of EC dated 20.05.2010)	g with the Six-Monthly EC Compliance Report. A Copy of report is enclosed as Annexures I. In May 2024, a further study was conducted by Akshar Geo Services and same vetted by NIT Delhi. The Vetted Hydrogeological Report, including mitigation Measures and an action plan, has already been submitted in ATR. The Certified EC compliance report dated: 15.03.2013 has been submitted.
ii	Utilisation of 100% Fly: Ash generated shall be made from 4th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time. **(Specific condition- xiii)**	100% fly ash utilization has not been achieved and ash dyke height has been increased in spite of claiming nearly 96% utilization of fly ash. In reference to this following major non-compliance status has also not been clarified. A. approval copy from state pollution control, Chhattisgarh and intimation letter submitted to Ministry for raising the ash dyke has not been submitted. B. latest dyke stability report has not been submitted.	**Being Complied.** As per the Fly Ash Notification 31.12.2021, Raigarh TPP has achieved 37% ash utilization in the FY 2021-22, which comes under the <60% utilization category. Therefore, the notification mandates achieving 100% Ash utilization within a five-year compliance cycle, ending on 31st March 2027. A. The strengthening of Ash Dyke bund has been done with mixing of Ash, Soil and sand as standard practice. B. Ash dyke stability study has already been conducted by NIT Rourkela and report is submitted.
iii	A good action plan for R&R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months form the date of issue of this letter. **(Specific condition- xx)**	Details of the number of PAP attracted under R&R and the R&R implementation status/awards passed has not been submitted.	**Complied.** R&R has been complied and all the payments made as per the demand received from the state government & local administration in 2011-2012 as per R&R and agreement policy by previous company. APL Raigarh acquired Korba West Power Company Ltd. (KWPCL) through NCLT on 20.07.2019.
iv	An amount of Rs 6.0 Crores shall be specially earmarked for development activities for tribals of the nearby villages as committed by the project proponent vide its letter dated 23.03,2010. Specific schemes for: upliftment of tribal families mentioning sustainable livelihood schemes shall be	Details has not been submitted regarding an amount of Rs. 6.0 Crores earmarked for development activities for tribals of the nearby villages as committed by the project proponent vide its letter dated 23.03.2010 and its submission to the ministry within three mont	**Complied.** We have adopted the nearby villages namely Bade Bhandar, Chhote Bhandar, Amlibhona sand Sarvani to provide & develop all basic amenities. The Certified EC compliance report dated: 15.03.2013 is submitted. A letter to the Collector Raigarh on development work in above-mentioned villages on dated 02.02.2010 is submitte

Sr. No.	Specific Condition/ general condition of EC	Non- compliance EC condition as per issued letter dated 31.07.2025 from MoEF&CC	Compliance status/clarification submitted by PP
	submitted to the Ministry within three months with time bound implementation and in-built monitoring programme. The above amount shall be over and above the fund earmarked for CSR activities. **(Specific condition- xxi)**	hs with time bound implementation and in built monitoring.	d.
v	Further an amount of Rs. 15.0 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent vide its letter dated 23.03.2010. Subsequently, a recurring expenditure of Rs. 3.0 Crores per annum Shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation. **(Specific condition- xxi)**	PP has not complied with the CSR activities as per the EC conditions.	Raigarh TPP was sick and financially stressed since commissioning (2014), due to CSR activities were not commenced. Previous company had informed Collector Raigarh vide letter dated 27/06/2017 towards their inability to undertake CSR activity and same was submitted to MoEFCC along with Six-monthly EC Compliance status report. However, prior to financially sick / stresses. Company has undertaken CSR activities in consultation with local authority (Panchayats) during the Construction phase and INR 16.05 Crores was spent during the period of FY 2010-2013. Copy of year wise expenditures details submitted to District Collector on dated: 14.01.2023 is submitted. The company was acquired by APL through NCLT in 2019, the CSR activities are being carried out through Adani Foundation in the vicinity of TPP, focus sector viz.: 1. Infrastructure development in the villages, 2. Livelihood Enhancement and training, 3. Education, 4. Community Health and Promotion of Sports and Culture. Expenditure incurred for CSR activities in the last 3 years is submitted.
vi	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The proje	Neither monitoring report has been submitted nor any amendment to the condition have been provided regarding in-built continuous monitoring mechanism for radioactivity and heavy met	**Being Complied.** Radioactive analysis is being carried out regularly by board of radiation and isotope Technology of Atomic Energy Govt. of India. Copy of report is submitted. For provision of in-built mechanism for Continuous monitoring for radioactivity

Sr. No.	Specific Condition/ general condition of EC	Non- compliance EC condition as per issued letter dated 31.07.2025 from MoEF&CC	Compliance status/clarification submitted by PP
	ct proponent shall also submit the status of implementation of the scheme from time- to time. **(Specific condition- xxiv)**	als in coal and fly ash (including bottom ash).	and heavy metals in coal and fly ash (including bottom ash), the technology and monitoring instruments are not available with the suppliers in the Country and is also technically not feasible to monitor in this mechanism. The application for EC amendment has been submitted and under process.
vii	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB, The criteria pollutant levels namely: SPM, RSPM (PM2,5 & PM10), SO2, NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain. **(General condition- xv)**	SO2 and NOx values exceeded the standard specified.	**Being Complied.** Particulate Matter Emission (PM) are being maintained well within 50mg/Nm³. NOx emissions are being maintained with prescribed limit/ standards 450 mg/Nm³ With periodic maintenance of Pollution Control Equipment's As per the MoEFCC notification dated 11.07.2025, Raigarh TPP falls under Category C TPP, therefore, the Sulphur dioxide emission is not applicable, as the stack height criteria of 275m already fulfilled.
viii	The environment statement for each financial year ending 31st March in Form V as is mandated to be submitted by the project proponent to the concerned SPCB as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, Shall also be put on the website of the company along with the status of compliance of environmental clearance condition and shall also be sent to the respective Regional Offices, of the Ministry by e-mail. **(General condition- xvi)**	Environment statement has not been uploaded on the website.	**Complied.** Environment Statement is being uploaded on regular basis on company website www.adanipower.com along with Six Monthly EC Compliance report. However, Environment Statements has been uploaded on the website of the Company in a separate folder. Screenshot of same is submitted.
ix	The project authorities shall inform the Regional Office regarding the, date of financial	Details of the financial closure and final approval of the project has not been sub	**Complied.** Financial Closure achieved by previous organization M/s Korba West Power C

Sr. No.	Specific Condition/ general condition of EC	Non- compliance EC condition as per issued letter dated 31.07.2025 from MoEF&CC	Compliance status/clarification submitted by PP
	closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant. **(General condition- xx)**	mitted.	ompany Limited (KWPCL) on 04.08.2009. Copy of Completion of financial closure is submitted.
x	The coal shall be transported on road through mechanically covered trucks. **Specific condition-i of EC dated 16.04.2015)**	Neither is the coal being transported on road through mechanically covered trucks nor has any amendment of the condition been provided.	**Being Complied.** As per MoEF&CC S.O 1561(E) dated 21.05.2020, road transportation of coal through trucks with covered tarpaulin. MoEF&CC issued a clarification vide OM dated covered transportation of coal by truck are an interim arrangement till establishment of railway/conveyor belt facility and existing EC stands modified and need not approach MoEF&CC to seek temporary permission.
xi	Avenue plantation of 2/3 rows all along the road for transportation of coal shall be carried out by the project proponent at its own expenses in consultation with the State Government Authorities. **Specific condition-ii of EC dated 16.04.2015)**	Details of the avenue plantation has not been provided.	Greenbelt / plantation is being developed more than 33% of total plant area. Presently coal is being transported from Vimla Siding NEAR Bhupdeopur Railway Station by NH 200/153 & SH 49. Joint inspection of the coal transportation route has been carried out by Van Vikas Nigam (Gov. Chhatitisgarh). The proposal is under process. Copy of letter is submitted with annexure. Construction of the Rail facilities for coal transportation is under progress and expected to be complected by December 2026.

C. **Summary of violation:** There is no violation cases under the Environmental Protection Act, 1986, Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and the Wildlife (Protection) Act, 1972.

3.1.3. Deliberations by the committee in previous meetings

N/A

3.1.4. Deliberations by the EAC in current meetings

33.1.16: The Committee observed and noted the following:

xxv. 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 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:

33.1.17: The EAC after detailed deliberations on the information submitted and as presented during the meeting ***recommended*** the proposal for grant of ToR for conducting an EIA study for the above project subject stipulation of the following specific ToR in addition to the generic ToRs.

3.1.5. Recommendation of EAC

Recommended

3.1.6. Details of Terms of Reference

3.1.6.1. Specific

Environmental Management and Biodiversity Conservation	
1.	A Cumulative Environmental Impact Assessment study of all the existing and proposed projects in the 10-km radius of the proposed project shall be conducted and the same shall be included in the EIA/EMP report. Details of industrial units present in 10 Km radius of the power plant shall be earmarked in map and submitted.
2.	Certified compliance report containing compliance to the prescribed EC conditions for the 1x600 MW (Phase I) and 2x800MW (Phase II) as per the MoEF&CC, O.M. dated 08/06/2022, shall be submitted.
3.	Project Proponent shall explore the feasibility of using water from coal mine void and treated sewage from Sewage Treatment Plants located within 50 km radius of the proposed project as an alternative to the fresh water source to minimize the freshwater drawl from surface water bodies. Action plan in this regard shall be submitted.
4.	Project proponent shall explore the feasibility of using air cooled condenser in place of water-cooled condenser and details shall be incorporated in the final EIA/EMP report.
5.	Certificate from concerned District Magistrate/Executive Engineer from the State Water Resources department (or) any officer authorized by the State Government in this regard shall be submitted stating that project site is not located within flood plain corresponding to one in 25 years of flood as per Ministry's O.M. dated 14/02/2022.
6.	PP needs to submit NOC/permission from the State Water Resource Department/Irrigation Dept. in case of diversion of any Nala/Stream/water bodies.
7.	All the parameters as mentioned in the National Ambient Air Quality Standards (NAAQS) shall be monitored by the project proponent.
8.	Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests if any, along with the mitigation measures to be followed.
9.	EIA/EMP study shall take into consideration the different scenarios arising due to all existing, under construction and upcoming TPP in premises, change of coal source, impact on environmental attributes

	due to change of coal source along with corresponding mitigation measures with EMP budget shall be submitted.
10.	Biodiversity analysis of the project site and study area shall be done through any NABET accredited consultant. The study report shall inter-alia include impact of release of cooling tower water on aquatic life and action plan for complying with the mitigation measures shall be submitted.
11.	Project proponent shall commission a study on Hydrology and Hydrogeology of the project site as well as the study area of the project site through a NABET accredited consultant. The study report along with the action plan for implementing the recommendations of the report shall be submitted along with the EIA/EMP report.
12.	Radioactivity studies along with coal analysis to be provided (sulphur, ash percentage and heavy metals including Pb, Cr, As and Hg). Details of auxiliary fuel, if any including its quantity, quality, storage, etc should also be given.
13.	PP should submit the detailed plan in tabular format (year-wise) for concurrent afforestation and green belt development in and around the project site covering 33 % of the project area. The PP should submit the number of saplings to be planted, names of native species, area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling should be of native and few fruit bearing species mainly, of height not less than 4 feet to be selected and accordingly cost of plantation needs to be decided.
14.	Action plan for development of three-tier plantation programme (33.0% of total project cover area) along the periphery of the project boundary and the coal transportation route shall be provided. PP shall submit concurrent plantation plan.
15.	Project proponent shall explore the feasibility of additional green belt development in the land outside the plant area. Action plan in this regard shall be submitted by the proponent.
16.	Detailed action plan shall be prepared for maintenance of air pollution control equipment for proposed units and shall be incorporated in the EIA/EMP report.
17.	Details of Ash management plan as per MoEF&CC notification dated 31/12/2021 & its subsequent amendment for the proposed project shall be submitted. MoU signed for ash utilization with companies shall be submitted.
18.	Action plan for dry ash collection system (Bottom ash and Fly ash) shall be submitted.
19.	Action plan for disposal of ash through High Concentration Slurry Disposal (only in emergency conditions) shall be submitted.
20.	Proper protection measures like high-density polyethylene (HDPE) lining, appropriate height of bund and adequate distance between the proposed Ash pond and water body (minimum 60 meters) etc. shall be planned to reduce the possibility of mixing leachate with any freshwater body for ash pond. A high-density Slurry disposal plan shall be prepared.
21.	Pond and ground water quality (10 locations within 2 km radius of the plant boundary) shall be studied, and report be submitted along with EIA/EMP. Action plan for Ground water monitoring stations on all hotspots like schools/hospitals within 2 km radius of the plant boundary be submitted. Baseline Study for

	Heavy metals in Groundwater, Surface water and soil to be carried out and incorporated in EIA/EMP report.
22.	Details pertaining to water source, treatment and discharge should be provided.
23.	PP shall provide the details of wastewater treatment facilities to be installed within its capacity, timeline and budget.
24.	Project Proponent to conduct Environmental Cost Benefit Analysis for the project in EIA/EMP Report.
25.	An action plan shall be prepared for Water shed development within 10 km radius of the plant boundary in consultation with reputed government institution and incorporated in EIA/EMP report.
26.	PP should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total material handled) and steps to be taken for reduction of the same. The year-wise target for reduction in the specific diesel consumption needs to be submitted. PP shall also explore the possibility of using e-vehicles/LNG/CNG-based machinery and trucks for the operation and transportation of Coal and ash and submit an implementation strategy.
27.	PP shall provide the details of transportation of fly ash from the plant, transportation route etc. Further, carry out a traffic study for at least one month and provide the impact of transportation along with the mitigation measures. The fly ash bulkers shall be used for transportation of fly ash and there shall not be any spillage of fly ash on roads.
28.	PP shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.
29.	Details on renewable energy (solar plant) proposed to be installed as energy conservation measures and action plan for the same shall be submitted.
30.	The input parameters for the AAQ modelling and the influence of various combinations of these on the AAQ must be reported in the EIA/EMP Report. In addition to the Wind Rose diagram collected for one season during the preparation of the EIA report, wind rose diagram for all seasons must be provided using secondary data from sources such as IMD/CPCB etc..
31.	Project proponent shall take all necessary steps to control the Air Quality and take additional mitigation measures for proposed TPP to maintain the Ambient Air Quality values within the limits. The action plan regarding maintaining ambient quality standards (Time weighted average for 24 hours and Annual both) be submitted. Further, project proponent shall submit an undertaking to abide by the provisions of the notification number G.S.R 465 (E) dated 11/07/2025 related to SO2 emisison norms, as amended, and any subsequent amendment there of pursuant to the outcome of study carried out by CPCB in this regard.
32.	Details of air pollution control devices to be installed in the proposed 2x800 MW TPP along with its maintenance schedule shall be incorporated in EIA/EMP report.
33.	Carbon emission due to TPP and allied carbon sequestration/ carbon offsetting plan be submitted.
34.	PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign, which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than green belt development. An action plan in this regard shall be submitted.

Disaster Management	
1.	A Disaster Management Plan shall be prepared and incorporated in the EIA/EMP report.
Socio-economic study	
1.	Public Health Action Plan including the provisions for drinking water supply for the local population shall be in the EIA/EMP Report. The status of the existing medical facilities in the project area shall be discussed. Possibilities of strengthening of existing medical facilities, construction of new medical infrastructure etc. will be explored after assessing the needs of the labour force and local populace.
2.	Public consultation (Public Hearing and Written submission) shall be conducted as per the provisions of EIA Notification, 2006 and as amended. As per the Ministry's OM dated 30.09.2020, to address the concern raised during the Public Hearing, the Project Proponent is required to submit the detailed activities proposed with year wise budgetary provision (Capital and recurring) for 5 years. Activities proposed shall be part of EMP. Tentative no. of project affected families (if any) shall be identified and accordingly appropriate Rehabilitation & Resettlement plan shall be prepared. The recommendation Socio-economic study may also be considered while planning the activities & budget.
3.	A need based Social Impact Assessment Study shall also be carried out and an action plan on its recommendations may also be submitted with budgetary provisions.
4.	Demographic details and land use change details in 10 km area shall be submitted.
Miscellaneous	
1.	Project proponent shall submit the land acquisition related documents for the existing land as well as the proposed additional land of 185 Ha as per the MoEF&CC O.M. dated 7/10/2014 & 19/02/2025 along with EC application.
2.	Plot the wind rose diagram using the Typical Meteorological Year (TMY) data for the period considered for the study. The monitoring units shall be deployed in the field based on the coverage area ratio and direction of the wind. A mathematical model shall be developed for the local site rather than using the standard model available in software for both air & water quality modelling.
3.	PP shall conduct a detailed impact and risk assessment study by a national/reputed Institute.
4.	PP shall align its activities to one/few of the Sustainable Development Goals (SDG) and start working on the mission of net zero by 2050. PPs shall update the same to the EAC.
5.	PP shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
6.	Detailed description of all the court cases along with its current status shall be submitted.
7.	PP should provide in the EIA Report details of all the statutory clearances, permissions, no objection certificates, consents etc. obtained for this project under various Acts, Rules and regulations shall be submitted. Further, all the permissions/MoUs obtained for this project shall be revalidated and submitted along with the EIA/EMP report.
8.	The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs, which will analyse the samples.

9.	PP should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of persons to be engaged for the implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.
10.	PP should submit the year-wise, activity wise and time-bound budget earmarked for EMP, occupational health surveillance, and activities proposed to address the issues raised during Public Hearing. The capital and recurring expenditure to be incurred needs to be submitted.
11.	Activities shall be prepared based on the issues arise during public hearing conducted and fresh written submission with defined timeline and budgetary provisions.
12.	Aerial view video of project site and coal transportation route proposed for this project shall be recorded through drone and be submitted.
13.	The PP should ensure that only NABET-accredited consultants shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that the accreditation of the consultant is valid during the collection of baseline data, preparation of EIA/EMP report and the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and the PP and consultant are fully accountable for the same.
14.	PP should provide in the EIA Report details of the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline after the grant of EC.
15.	All the certificates viz. involvement of Forestland, distance from the protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.
16.	Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025 and 08.10.2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12.11.2024 through which projects requiring prior EC were exempted from requirement of CTE.

3.1.6.2. Standard

1(d)	**Thermal Power Plants**
Statutory compliance	
1.	The proposed project shall be given a unique name in consonance with the name submitted to other Government Departments etc. for its better identification and reference.
2.	Vision document specifying prospective long term plan of the project shall be formulated and submitted.
3.	Latest compliance report duly certified by the Regional Office of MoEF&CC for the conditions stipulated in the environmental and CRZ clearances of the previous phase(s) for the expansion projects shall be submitted.
Details of the Project and Site	
1.	The project proponent needs to identify minimum three potential sites based on environmental, ecological and economic considerations, and choose one appropriate site having minimum impacts on

	ecology and environment. A detailed comparison of the sites in this regard shall be submitted.
2.	Executive summary of the project indicating relevant details along with recent photographs of the proposed site (s) shall be provided. Response to the issues raised during Public Hearing and the written representations (if any), along with a time bound Action Plan and budgetary allocations to address the same, shall be provided in a tabular form, against each action proposed.
3.	Harnessing solar power within the premises of the plant particularly at available roof tops and other available areas shall be formulated and for expansion projects, status of implementation shall also be submitted.
4.	The geographical coordinates (WGS 84) of the proposed site (plant boundary), including location of ash pond along with topo sheet (1:50,000 scale) and IRS satellite map of the area, shall be submitted. Elevation of plant site and ash pond with respect to HFL of water body/nallah/River and high tide level from the sea shall be specified, if the site is located in proximity to them.
5.	Layout plan indicating break-up of plant area, ash pond, green belt, infrastructure, roads etc. shall be provided.
6.	Land requirement for the project shall be optimized and in any case not more than what has been specified by CEA from time to time. Item wise break up of land requirement shall be provided.
7.	Present land use (including land class/kism) as per the revenue records and State Govt. records of the proposed site shall be furnished. Information on land to be acquired including coal transportation system, laying of pipeline, ROW, transmission lines etc. shall be specifically submitted. Status of land acquisition and litigation, if any, should be provided.
8.	If the project involves forest land, details of application, including date of application, area applied for, and application registration number, for diversion under FCA and its status should be provided along with copies of relevant documents.
9.	The land acquisition and R&R scheme with a time bound Action Plan should be formulated and addressed in the EIA report.
10.	Satellite imagery and authenticated topo sheet indicating drainage, cropping pattern, water bodies (wetland, river system, stream, nallahs, ponds etc.), location of nearest habitations (villages), creeks, mangroves, rivers, reservoirs etc. in the study area shall be provided.
11.	Topography of the study area supported by toposheet on 1:50,000 scale of Survey of India, along with a large scale map preferably of 1:25,000 scale and the specific information whether the site requires any filling shall be provided. In that case, details of filling, quantity of required fill material; its source, transportation etc. shall be submitted.
Ecology biodiversity and Environment	
1.	A detailed study on land use pattern in the study area shall be carried out including identification of common property resources (such as grazing and community land, water resources etc.) available and Action Plan for its protection and management shall be formulated. If acquisition of grazing land is involved, it shall be ensured that an equal area of grazing land be acquired and developed and detailed plan submitted.
2.	Location of any National Park, Sanctuary, Elephant/Tiger Reserve (existing as well as proposed), migratory routes / wildlife corridor, if any, within 10 km of the project site shall be specified and marked on the map duly authenticated by the Chief Wildlife Warden of the State or an officer authorized by him.

3.	A mineralogical map of the proposed site (including soil type) and information (if available) that the site is not located on potentially mineable mineral deposit shall be submitted.
4.	The water requirement shall be optimized (by adopting measures such as dry fly ash and dry bottom ash disposal system, air cooled condenser, concept of zero discharge) and in any case not more than that stipulated by CEA from time to time, to be submitted along with details of source of water and water balance diagram. Details of water balance calculated shall take into account reuse and re- circulation of effluents.
5.	Water body/Nallah (if any) passing across the site should not be disturbed as far as possible. In case any Nallah / drain is proposed to be diverted, it shall be ensured that the diversion does not disturb the natural drainage pattern of the area. Details of proposed diversion shall be furnished duly approved by the concerned Department of the State.
6.	It shall also be ensured that a minimum of 500 m distance of plant boundary is kept from the HFL of river system / streams etc. and the boundary of site should also be located 500 m away from railway track and National Highways.
7.	Hydro-geological study of the area shall be carried out through an institute/ organization of repute to assess the impact on ground and surface water regimes. Specific mitigation measures shall be spelt out and time bound Action Plan for its implementation shall be submitted
8.	Detailed Studies on the impacts of the ecology including fisheries of the River/Estuary/Sea due to the proposed withdrawal of water / discharge of treated wastewater into the River/Sea etc shall be carried out and submitted along with the EIA Report. In case of requirement of marine impact assessment study, the location of intake and outfall shall be clearly specified along with depth of water drawl and discharge into open sea.
9.	Source of water and its sustainability even in lean season shall be provided along with details of ecological impacts arising out of withdrawal of water and taking into account inter-state shares (if any). Information on other competing sources downstream of the proposed project and commitment regarding availability of requisite quantity of water from the Competent Authority shall be provided along with letter / document stating firm allocation of water.
10.	Detailed plan for rainwater harvesting and its proposed utilization in the plant shall be furnished.In addition, wherever ground water is drawn, PP shall submit detailed plan of Water charging activity to be undertaken.
11.	Feasibility of near zero discharge concept shall be critically examined and its details submitted.
12.	Optimization of Cycles of Concentration (COC) along with other water conservation measures in the project shall be specified.
13.	Plan for recirculation of ash pond water and its implementation shall be submitted.
14.	Detailed plan for conducting monitoring of water quality regularly with proper maintenance of records shall be formulated. Detail of methodology and identification of monitoring points (between the plant and drainage in the direction of flow of surface / ground water) shall be submitted. It shall be ensured that parameter to be monitored also include heavy metals. A provision for long-term monitoring of ground water table using Piezometer shall be incorporated in EIA, particularly from the study area.
1	Hazards Characterization: Past incidents of hazard events within 10km radius of project area with

5.	detailed analysis of causes and probability of reoccurrence
Environmental Baseline study and mitigation measures	
1.	One complete season (critical season) site specific meteorological and AAQ data (except monsoon season) as per latest MoEF&CC Notification shall be collected along with past three year's meteorological data for that particular season for wins speed analysisand the dates of monitoring shall be recorded. The parameters to be covered for AAQ shall include PM10, PM2.5, SO2, NOx, CO and Hg. The location of the monitoring stations should be so decided so as to take into consideration the upwind direction, pre-dominant downwind direction, other dominant directions, habitation and sensitive receptors. There should be at least one monitoring station each in the upwind and in the pre - dominant downwind direction at a location where maximum ground level concentration is likely to occur.
2.	In case of expansion project, air quality monitoring data of 104 observations a year for relevant parameters at air quality monitoring stations as identified/stipulated shall be submitted to assess for compliance of AAQ Standards (annual average as well as 24 hrs).
3.	A list of industries existing and proposed in the study area shall be furnished.
4.	Cumulative impacts of all sources of emissions including handling and transportation of existing and proposed projects on the environment of the area shall be assessed in detail. Details of the Model used and the input data used for modelling shall also be provided. The air quality contours should be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any. The windrose and isopleths should also be shown on the location map. The cumulative study should also include impacts on water, soil and socio-economics.
5.	Radio activity and heavy metal contents of coal to be sourced shall be examined and submitted along with laboratory reports.
6.	Fuel analysis shall be provided. Details of auxiliary fuel, if any, including its quantity, quality, storage etc should also be furnished.
7.	Quantity of fuel required, its source and characteristics and documentary evidence to substantiate confirmed fuel linkage shall be furnished. The Ministry's Notification dated 02.01.2014 regarding ash content in coal shall be complied. For the expansion projects, the compliance of the existing units to the said Notification shall also be submitted
8.	Details of transportation of fuel from the source (including port handling) to the proposed plant and its impact on ambient AAQ shall be suitably assessed and submitted. If transportation entails a long distance it shall be ensured that rail transportation to the site shall be first assessed. Wagon loading at source shall preferably be through silo/conveyor belt.
9.	For proposals based on imported coal, inland transportation and port handling and rail movement shall be examined and details furnished. The approval of the Port and Rail Authorities shall be submitted.
10.	Details regarding infrastructure facilities such as sanitation, fuel, restrooms, medical facilities, safety during construction phase etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase should be adequately catered for and details furnished.
Environmental Management Plan	
1.	EMP to mitigate the adverse impacts due to the project along with item - wise cost of its implementation in a time bound manner shall be specified.

2.	A Disaster Management Plan (DMP) along with risk assessment study including fire and explosion issues due to storage and use of fuel should be prepared. It should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the proposed activities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures should be provided. Measures to guard against fire hazards should also be invariably provided. Provision for mock drills shall be suitably incorporated to check the efficiency of the plans drawn.
3.	The DMP so formulated shall include measures against likely Fires/Tsunami/Cyclones/Storm Surges/ Earthquakes etc, as applicable. It shall be ensured that DMP consists of both On-site and Off-site plans, complete with details of containing likely disaster and shall specifically mention personnel identified for the task. Smaller version of the plan for different possible disasters shall be prepared both in English and local languages and circulated widely.
4.	Details of fly ash utilization plan as per the latest fly ash Utilization Notification of GOI along with firm agreements / MoU with contracting parties including other usages etc. shall be submitted. The plan shall also include disposal method / mechanism of bottom ash along with monitoring mechanism.
Green belt development	
1.	Detailed scheme for raising green belt of native species of appropriate width (50 to 100 m) and consisting of at least 3 tiers around plant boundary not less than 2000 tree per ha with survival rate of more than 85%shall be submitted. Photographic evidence must be created and submitted periodically including NRSA reports in case of expansion projects. A shrub layer beneath tree layer would serve as an effective sieve for dust and sink for CO2 and other gaseous pollutants and hence a stratified green belt should be developed.
2.	Over and above the green belt, as carbon sink, plan for additional plantation shall be drawn by identifying blocks of degraded forests, in close consultation with the District Forests Department. In pursuance to this the project proponent shall formulate time bound Action Plans along with financial allocation and shall submit status of implementation to the Ministry every six months
Socio-economic activities	
1.	Socio-economic study of the study area comprising of 10 km from the plant site shall be carried out through a reputed institute / agency which shall consist of detail assessment of the impact on livelihood of the local communities.
2.	Action Plan for identification of local employable youth for training in skills, relevant to the project, for eventual employment in the project itself shall be formulated and numbers specified during construction & operation phases of the Project.
3.	If the area has tribal population, it shall be ensured that the rights of tribals are well protected. The project proponent shall accordingly identify tribal issues under various provisions of the law of the land.
4.	A detailed CER plan along with activities wise break up of financial commitment shall be prepared in terms of the provisions OM No. 22-65/2017-IA.III dated 30.09.2020.CER component shall be identified considering need based assessment study and Public Hearing issues. Sustainable income generating measures which can help in upliftment of affected section of society, which is consistent with the traditional skills of the people shall be identified.
5.	While formulating CER schemes it shall be ensured that an in-built monitoring mechanism for the schemes identified are in place and mechanism for conducting annual social audit from the nearest government institute of repute in the region shall be prepared. The project proponent shall also provide

	Action Plan for the status of implementation of the scheme from time to time and dovetail the same with any Govt. scheme(s). CERdetails done in the past should be clearly spelt out in case of expansion projects.
6.	R&R plan, as applicable, shall be formulated wherein mechanism for protecting the rights and livelihood of the people in the region who are likely to be impacted, is taken into consideration. R&R plan shall be formulated after a detailed census of population based on socio economic surveys who were dependant on land falling in the project, as well as, population who were dependant on land not owned by them.
7.	Assessment of occupational health and endemic diseases of environmental origin in the study area shall be carried out and Action Plan to mitigate the same shall be prepared.
8.	Occupational health and safety measures for the workers including identification of work related health hazards shall be formulated. The company shall engage full time qualified doctors who are trained in occupational health. Health monitoring of the workers shall be conducted at periodic intervals and health records maintained. Awareness programme for workers due to likely adverse impact on their health due to working in non-conducive environment shall be carried out and precautionary measures like use of personal equipments etc. shall be provided. Review of impact of various health measures undertaken at intervals of two to three years shall be conducted with an excellent follow up plan of action wherever required.
Corporate Environment Policy	
1.	Does the company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
2.	Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
3.	What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions. Details of this system may be given.
4.	Does the company has compliance management system in place wherein compliance status along with compliances / violations of environmental norms are reported to the CMD and the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.
Miscellaneous	
1.	All the above details should be adequately brought out in the EIA report and in the presentation to the Committee.
2.	Details of litigation pending or otherwise with respect to project in any Court, Tribunal etc. shall invariably be furnished.
3.	In case any dismantling of old plants are envisaged, the planned land use & land reclamation of dismantled area to be furnished.

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Expansion of Coal Based Thermal Power Plant (Phase-II) from 3x600 MW to 6x600 MW by M/s KSK Maha nadi Power Company Limited at Village Nariyara, Tehsil Akaltara, Dist. Janjgir-Champa (Chhattisgarh) by **KSK MAHANADI POWER COMPANY LIMITED** located at **JANJGIR-CHAMPA,CHHATTISGARH**			
Proposal For		Amendment in EC	
Proposal No	**File No**	**Submission Date**	**Activity Sub-Activity (Schedule Item)**
IA/CG/THE/557583/2025	J-13012/44/08-IA.II(T)	08/11/2025	Thermal Power Plants Coal/Lignite based plants (1(d))

3.2.2. Project Salient Features

Agenda No 33.2

33.2: Expansion of Coal Based Thermal Power Plant (Phase-II) from 3x600 MW to 6x600 MW by **M/s KSK Mahanadi Power Company Limited** located at Village Nariyara, Tehsil Akaltara, **District Janjgir-Champa, Chhattisgarh – Amendment in Environmental Clearance (EC) - regarding.**

[Proposal No: IA/CG/THE/557583/2025; File No: J-13012/44/08-IA.II(T)]

33.2.1: M/s KSK Mahanadi Power Company Limited has made online application vide proposal no. IA/CG/THE/557583/2025 dated 08.11.2025 along with Form-4 seeking for amendment in the Environmental Clearance accorded by the Ministry vide letter no. J-13012/44/08-IA. I (T) dated 23/09/2015; 13/08/2021, 06/10/2025 under the provisions of the EIA Notification, 2006, for the project mentioned above.

Name of the EIA consultant: M/s GreenCindia Consulting Private Limited [NABET/EIA/2326/RA 0297; Valid up to 22/02/2026]

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting are given as under:

33.2.2: The existing project was accorded environmental clearance vide letter no. J-13012/44/08– IA.II (T) dated 19/10/2009 from MoEF&CC for setting up of 6x600 MW TPP. Subsequently, the details of the EC amendment obtained are summarized as below:

Sl. No.	EC/Amendment/Corrigendum/ Transfer	Date of Issue
1.	EC granted for 6X600 MW TPP	19/10/2009
2.	Corrigendum - Amendment in typographical error in Name of the company	19/11/2009
3.	Transfer of EC – Reg. name change	27/12/2010
4.	Amendment in EC – Reg. Coal Source	24/01/2012
5.	Amendment in EC – Reg. Amendment and extension of validity of EC	23/09/2015
6.	Amendment in EC – Reg. Coal source	26/05/2016

Sl. No.	EC/Amendment/Corrigendum/ Transfer	Date of Issue
7.	Amendment in EC – Reg. Amendment and extension of validity of EC	19/04/2018
8.	Amendment in EC – Reg. Retrofit of pollution control facilities	13/08/2021

33.2.3: Out of 6x600MW, 3x600 MW (Unit-2, Unit-3 and Unit-4) coal based sub-critical thermal power plant has already been commissioned during 2013 and 2018 and units are fully operational at present. Consent to Operate for 3 x 600 MW (Unit 2,3 & 4) was accorded by Chhattisgarh Environment Conservation Board, Raipur vide letter no 903/TS/CECB/2024 dated 29/04/2024 with validity up to 17/05/2026. The balance 3x600 MW (Unit-1, Unit-5, and Unit-6) coal based sub-critical thermal power plant was under construction and the construction activities were suspended (before October 2019) due to financial constraints. The construction activities related to Unit No. 1, 5 & 6 was completed to the extent of 67.14%. In view of this, proponent obtained fresh EC for unit no. 1, 5 & 6 on 06/10/2025.

33.2.4: The implementation status of the existing ECs are as follows:

S. No.	Facility	Details of implementation of EC	As per CTO dated	Balance Quantity
1.	Coal based TPP	EC letter F. No. J- 13012/44/2008-IA. I (T), dated 19/10/2009 – Implemented (3 units constructed & commissioned)	CTO no. 903/TS/ CECB/ 2024 dt. 29 /04/ 2024 valid till 17.05.2026 (3 units constructed & commissioned)	**3x600MW**
2.		EC letter No. J- 13012/44/2008-IA.II (T), dated 06.10.2025 (Partial construction of 3 units to be completed and commissioned)	CTO yet to be obtained	**Under Construction stage**

33.2.5: The details of the condition for which amendment is sought and justification for the same is as follows:

Sl. No	Condition No	Details of Conditions As per ToR/EC	Amendment Sought	Justification
1.	Sr. No. 4 (xxxvi) in Page no. 2, in EC letter No. J-13012/44/2008-IA.II (T), Dated **23/09/2015**	Mechanism for an inbuilt Continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall put in place. (As per additional EC condition dtd.23/9/2015).	Requesting amendment in Environmental Clearance for the waiving off.	The Radio-active element was tested for Fly ash and Bottom Ash by Modern Test Centre Berhampur Odisha in 2021and again analysed in April 2025 by Govt. of India Dept. of Atomic Energy Board of Radiation and Isotope Technology (BRIT), Mumbai. KMPCL is committed & assures to conduct the same analysis once every two years through BRIT and reports shall be submitted to MoEF & CC as part of compliance report. However, an in-built continuous monitoring mecha

Sl. No	Condition No	Details of Conditions As per ToR/EC	Amendment Sought	Justification
				nism for radioactivity is not available as no such equipment exists in the market. Therefore, this condition may kindly be waived off.
2.	Sr. 4 (xi), page 2, in EC letter No. J-13012/44/2008-IA.II (T) dated **23.09.2015** and Sr. no. 7 (viii) of OM 28.8.2019, page no. 3.	Fly ash not be used for Agriculture purpose & Fly ash to be used ash soil conditioner in agriculture needs (As per EC additional condition O.M. dated 28/8/2019), As per CCR dated 06/06/2025, it is mentioned that the condition needs to be examined by MoEF which is repugnant.	Requesting amendment in Environmental Clearance for the waiving off.	KMPCL has not, till date, used ash as soil conditioner or not utilized for agricultural purposes. And this condition is in contrary to the OM dated 28.08.2019. Therefore, this condition may kindly be waived off.
3.	Sr. no. 6 (ii) in page 2, EC letter F. No. J-13012/44/2008-IA. I (T), dated 13/08/2021 and Sr no. 1.15, page no. 24 of Specific EC condition, F. No. J- 13012/44/08-IA.II(T) dated **06/10/2025**.	Additional 50 ha. Green belt in next five years (As per EC condition dated 06/10/2025 and as per Amended EC under retrofitting of PC facilities dated 13/08/2021).	Requesting amendment in Environmental Clearance for the waiving off.	As per the latest Office Memorandum dated 29.10.2025 regarding greenbelt development, Section B specifies that a minimum of 25% greenbelt coverage is required for Red Category projects (PI≥80). KMPCL has already developed 33% (covering 277 Ha) greenbelt development with 90% survival rate, which has been verified by "Society For Environment & Integrated Development", Raipur (CECB Approved agency). Further, KMPCL is committed & assures the causality replacement by planting additional 75,000 plants within 277Ha. Hence, as KMPCL has already achieved 33% of Greenbelt plantation which is more than the Requirement specified in OM dated 29.10.2025, The requirement for an additional 50 hectares of greenbelt may kindly be waived off.

33.2.6: Justification for the Proposed EC amendment: PP submitted the following justification:

i. The Radio-active element was tested for Fly ash and Bottom Ash by Modern Test Centre Berhampur Odisha in 2021 and again analysed in April 2025 by Govt. of India Dept. of Atomic Energy Board of Radiation and Isotope Technology (BRIT), Mumbai. KMPCL is committed & assures to conduct the same analysis once every two years through BRIT and reports shall be

submitted to MoEF&CC as part of compliance report. However, an in-built continuous monitoring mechanism for radioactivity is not available as no such equipment exists in the market. Therefore, this condition may kindly be waived off.
ii. KMPCL has not, till date, ash from TPP as soil conditioner or not utilized for agricultural purposes. And this condition is in contrary to the provision of the ash utilization notification dated 31/12/2021 and its amendment. Therefore, this condition may kindly be waived off.
iii. As per the latest Office Memorandum dated 29.10.2025 regarding greenbelt development, Section B specifies that a minimum of 25% greenbelt coverage is required for Red Category projects (PI ≥ 80). KMPCL has already developed 33% (covering 277 Ha) greenbelt development with 90% survival rate, which has been verified by "Society for Environment & Integrated Development", Raipur (CECB Approved agency). Further, KMPCL is committed & assures the causality replacement by planting additional 75,000 plants within 277 Ha. Hence, as KMPCL has already achieved 33% of green belt plantation which is more than the requirement specified in OM dated 29.10.2025, the requirement for an additional 50 hectares of greenbelt may kindly be waived off.

3.2.3. Deliberations by the committee in previous meetings

N/A

3.2.4. Deliberations by the EAC in current meetings

Observations and deliberation of the EAC
33.2.7: The Committee observed and noted the following:
Recommendations of the committee:
33.2.8: In view of the foregoing and after the detailed deliberations, the Committee recommended **to return the proposal in its present** form and asked the proponent to revisit the entire application by incorporating all the technical shortcomings inter-alia including the above and thereafter proposal shall be submitted by the proponent for fresh consideration by the EAC.

3.2.5. Recommendation of EAC

Returned in present form

3.3. Agenda Item No 3:

3.3.1. Details of the proposal

Expansion of the 2x300 MW (Phase-I, Operational) and 2x660 MW (Phase-II, under construction) Propose d with capacity of 2x800MW (1600 MW, under Phase-III Ultra Super Critical TPP) within the existing Pla nt area at Village Saragbundia, Dhandhani, Paladi, Khordal, Pahanda and Pathadi, Tehsil Kartala District, Korba, Chhattisgarh by Korba Power Limited by **Adani Power Limited** located at **KORBA,CHHATTISGARH**

Proposal For		Fresh ToR	
Proposal No	**File No**	**Submission Date**	**Activity Sub-Activity (Schedule Item)**
IA/CG/THE/554248/202	J-13011/3/2009-IA.II(T)	30/10/2025	Thermal Power Plants

5			Coal/Lignite based plants (1(d))

3.3.2. Project Salient Features

Agenda No: 33.3

33.3: Expansion of 2x300 MW (Phase-I, Operational) and 2x660 MW (Phase-II, under construction) by addition of 2x800 MW (1600 MW, under Phase-III Ultra Super Critical TPP) within the existing Plant area **by M/s. Korba Power Limited** at Village Saragbundia, Dhandhani, Paladi, Khordal, Pahanda and Pathadi, Tehsil Kartala **District, Korba, Chhattisgarh – Prescribing of Terms of Reference (ToR) – reg.**

[Proposal No: IA/CG/THE/554248/2025; F. No. J-13011/3/2009-IA.II(T)]

33.3.1: M/s. Korba Power Limited (Formerly, Lanco Amarkantak Power Limited) a subsidiary of Adani Power Limited has made an online application vide proposal no. IA/CG/THE/554248/2025 dated 18.10.2025 along with the application in the prescribed format (CAF, Form – I Part A & B), the copy of Pre-Feasibility Report and proposed Terms of References (ToRs) for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. 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.

Name of the EIA consultant: M/s Gaurang Environmental Solutions Pvt. Ltd. [Listed at 110, Certificate No. NABET/EIA/23-26/RA 0338 dated16/07/2024 valid up to 07/12/2026].

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

33.3.2: The proposed project is for expansion of the 2x300 MW (Phase-I, Operational) and 2x660 MW (Phase-II, under construction) by addition of 2x800 MW (1600 MW, under Phase-III Ultra Super Critical TPP) within the existing Plant area at Village Saragbundia, Dhandhani, Paladi, Khordal, Pahanda and Pathadi, Tehsil Kartala District, Korba, Chhattisgarh by M/s. Korba Power Limited.

33.3.3: The existing project (Phase- I: 2x300 MW) was accorded environmental clearance vide lr. no. J-13012/21/2004.IA-II(T) dated 19.11.2004, and EC transfer (P. No IA/CG/THE/503074/2024) from Lanco Amarkantak Power Limited to Korba Power Limited vide lr. no. J-13012/21/2004.IA-II (T), J-13011/44/2007-IA.II(T) & J-13011/03/2009-IA.II(T) dated 13.01.2025 (EC24A0601CG5592452T). The EC was granted for Unit 3 (1x660 MW) vide letter no. 13011/44/2007-IA.II(T) dated 31.12.2007 and its subsequent amendment dated 04.09.2008 & validity extension dated 19.02.2014, and for Unit 4 (1x660 MW) EC was granted vide letter no. J-13011/03/2009-IA.II(T) dated 26.05.2010 and validity extension of EC dated 22.06.2015 and 17.05.2018 from MoEF&CC. The revival of EC (Phase- II: 2 x 660 MW) along with CTE conditions for Unit-3 & Unit-4 for completion of balance work was issued by MoEF&CC vide lr. no. J-13011/3/2009-IA.II(T) on 22.07.2025 & further EC Amendment obtained for future expansion within the existing land of 505.58 Ha vide File no. J-13011/3/2009-IA.II(T) dated 29.10.2025. Consent to Operate (CTO) for the existing Unit 1 & 2 (2x300 MW) was accorded by Chhattisgarh Environment Conservation Board (CECB) vide lr. No. 443/TS/CECB/2024 dated 15.04.2024. The validity of CTO is up to 31.05.2027.

S. No.	Configuration	Capacity (MW)	As per EC dated	Implementation Status as on till date	Production as per CTO
1.	2 x 300 MW (Unit -1 & 2)	600 MW	19.11.2004	Units are operational Since 2010	2 x300 MW

2.	2 x 660 MW (Unit -3 & 4)	1320 MW	22.07.2025	Under Construction	...

In addition to the above, status of compliance to the SO_2 emission norms shall be furnished as per the MoEF&CC Notification dated 11/07/2025

i. Categorization details of TPP: " C "

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

iii. Status of SO_2 emission control facility for existing unit: 275 m high Chimney is envisaged as per MOEF&CC Notification dated 11.07.2025.

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 expansion.: Chimney with 275 m height (Twin flue) is proposed.

33.3.5: Environmental site settings:

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>1.</td><td>Total Land</td><td>Total land = 505.58 Ha (Govt. land 505.58 ha)
Land use: Industrial
(Chhattisgarh Govt. Land provided by CSIDC in 2005 & 2006)</td><td>--</td></tr>
<tr><td>2.</td><td>Land use break up</td><td>
<table>
<tr><th>Facilities</th><th>Phase-I (in Ha.)</th><th>Phase-II (in Ha.)</th><th>Proposed Expansion under Phase-III (in Ha.)</th><th>Total Area (in Ha.)</th></tr>
<tr><td>Main Plant</td><td>71.12</td><td>65.00</td><td>62.24</td><td>198.36</td></tr>
<tr><td>Coal Storage and Handling</td><td>20.00</td><td>26.00</td><td>29.00</td><td>75.00</td></tr>
<tr><td>Water System</td><td>10.52</td><td>-</td><td>-</td><td>10.52</td></tr>
<tr><td>Switchyard</td><td colspan="3">Included in main plant area</td><td>-</td></tr>
<tr><td>Greenbelt</td><td>85.21</td><td>42.07</td><td>31.76</td><td>159.04</td></tr>
<tr><td>Road</td><td colspan="3">Included in Main plant area</td><td>-</td></tr>
<tr><td>Ash pond</td><td>30.21</td><td>19.10</td><td>-</td><td>49.31</td></tr>
<tr><td>Railway siding</td><td colspan="3">Included in Coal Handling System (Outside ROU)</td><td>-</td></tr>
<tr><td>Water supply pipeline</td><td colspan="3">Included in Water System (Outside ROU)</td><td>-</td></tr>
<tr><td>Ash transport pipeline</td><td colspan="3">Included in Main plant area</td><td>-</td></tr>
<tr><td>Township & other</td><td>9.31</td><td>-</td><td>4.04</td><td>13.35</td></tr>
<tr><td>Total land</td><td>226.37</td><td>152.17</td><td>127.04</td><td>505.58</td></tr>
</table>
</td><td></td></tr>
<tr><td>3.</td><td>Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 & 20.02.2025</td><td>The land is already in possession with proponent</td><td>Land Documents are submitted along with ToR application</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>4.</td><td>Existence of habitation & involvement of R&R, if any.</td><td><u>Project site</u>: No Rehabilitation and Resettlement (R & R) is required.
Study Area:
<table>
<tr><th>Habitations/ Name of Villages</th><th>Distance (Km)</th><th>Direction</th></tr>
<tr><td>Pathadi</td><td>1.51</td><td>E</td></tr>
<tr><td>Pahanda</td><td>1.57</td><td>E</td></tr>
<tr><td>Khoddle</td><td>1.06</td><td>W</td></tr>
<tr><td>Saragbundia</td><td>1.54</td><td>SE</td></tr>
<tr><td>Dhandani</td><td>2.23</td><td>S</td></tr>
<tr><td>Sandail</td><td>3.13</td><td>SW</td></tr>
<tr><td>Baridih</td><td>2.89</td><td>W</td></tr>
<tr><td>Katbitla</td><td>3.21</td><td>W</td></tr>
<tr><td>Urga</td><td>3.85</td><td>NE</td></tr>
<tr><td>Akhrapali</td><td>2.1</td><td>NW</td></tr>
<tr><td>Bagbura</td><td>2.75</td><td>NE</td></tr>
<tr><td>Baigapali</td><td>3.95</td><td>NW</td></tr>
<tr><td>Barbapur</td><td>4.76</td><td>N</td></tr>
<tr><td>Barpali</td><td>2.21</td><td>S</td></tr>
<tr><td>Bhaisamura</td><td>1.84</td><td>SW</td></tr>
<tr><td>Bhaisma</td><td>4.83</td><td>NE</td></tr>
<tr><td>Bhalpahri</td><td>4.9</td><td>NW</td></tr>
<tr><td>Darrabhata</td><td>0.19</td><td>N</td></tr>
<tr><td>Deurmal</td><td>3.4</td><td>NW</td></tr>
<tr><td>Jarwe</td><td>4.6</td><td>SE</td></tr>
<tr><td>Kanki</td><td>4.6</td><td>SW</td></tr>
<tr><td>Karbitla</td><td>2.4</td><td>W</td></tr>
<tr><td>Kudurmal</td><td>3.75</td><td>NW</td></tr>
<tr><td>Kukricholi</td><td>2.8</td><td>NE</td></tr>
<tr><td>Mashan</td><td>1.63</td><td>NE</td></tr>
<tr><td>Pakariya</td><td>4.05</td><td>SE</td></tr>
<tr><td>Purena</td><td>4.15</td><td>S</td></tr>
<tr><td>Salihabhatha</td><td>2.123</td><td>SE</td></tr>
<tr><td>Saraidih</td><td>4.45</td><td>SE</td></tr>
<tr><td>Semipali</td><td>3</td><td>N</td></tr>
<tr><td>Tarda</td><td>3.88</td><td>NW</td></tr>
<tr><td>Tikeja</td><td>3.35</td><td>E</td></tr>
</table>
Protective measures adopted are as follows:
· Dedicated plant approach roads avoiding villages.
· Covered trucks and speed control within 25 km/h
· Warning signage near village road junctions.
· Periodic health check-up camps in villages.
· Distribution of masks during peak construction Supply of treated drinking water.
· Livelihood enhancement programs (skill training, vendor inclusion).
· Preference to local employment.</td><td>Status of R&R. - Not applicable as R&R not involved.</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>· Community development under CSR.
· Village-level grievance cell.
· Monthly community interaction meetings.
· Toll-free helpline and grievance log.
· Acoustic enclosures for turbines and DG sets.
· Construction limited to daytime hours near habitations.
· Plantation buffers along plant boundary.
· Zero Liquid Discharge (ZLD) policy.
· Lined drains and leak-proof ash slurry pipelines.</td><td></td></tr>
<tr><td>5.</td><td>Existence of schools and hospitals, if any</td><td>A. School
In project site: Nil
Study Area:
<table>
<tr><th>School</th><th>Distance (Km)</th><th>Direction</th></tr>
<tr><td>Govt. Middle School, Khoddal</td><td>1.09</td><td>N</td></tr>
<tr><td>Govt. Primary School, Darrabhata</td><td>1.48</td><td>N</td></tr>
<tr><td>Govt High School, Sandail</td><td>2.82</td><td>SW</td></tr>
<tr><td>Dhandhani Pratamik, Shala</td><td>2.19</td><td>S</td></tr>
<tr><td>Govt. High School, Patadhi</td><td>1.86</td><td>E</td></tr>
<tr><td>Saraswati Higher Secondary School , Sitamani Korba</td><td>9.3</td><td>NW</td></tr>
<tr><td>Jain Public School, Godhi Road, Korba</td><td>9.9</td><td>NE</td></tr>
</table>
Protective measures adopted are as follows:
● Air and Noise Control: Dust suppression, greenbelt development, and acoustic barriers will be implemented; high-noise activities will be limited to non-school hours.
● Safe Access: Signage, speed breakers, and crossing guards will be provided; heavy vehicle movement near schools will be restricted during school timings.
● Health & Awareness: Regular health camps, distribution of masks, and environmental awareness programs will be conducted for students.
● CER & Monitoring: Support for school infrastructure and scholarships will be provided under CSR; air and noise
B. Hospital
In project site: Nil
Study Area:
<table>
<tr><th>Hospital</th><th>Distance(Km)</th><th>Direction</th></tr>
<tr><td>Communty Health centre, Patadhi</td><td>1.77</td><td>NE</td></tr>
<tr><td>Sub Health centre, Khoddal</td><td>1.10</td><td>N</td></tr>
<tr><td>Sub Health centre, Pahanda</td><td>2.44</td><td>NE</td></tr>
<tr><td>Primary Health Centre, Saragbundia</td><td>1.74</td><td>E</td></tr>
<tr><td>Sub Health centre, Baridih</td><td>2.87</td><td>N</td></tr>
<tr><td>Sub Health Centre, Tarda , Ko</td><td>5.3</td><td>NW</td></tr>
</table></td><td></td></tr>
</table>

S. No.	Particulars	Details	Remarks
		rba Primary Health Centre, Pathadi Korba — 5.6 — S Railway Health Centre, Korba — 9.8 — E **Protective measures adopted are as follows:** ● Dust Suppression: Regular water sprinkling and fogging near access roads and work zones close to health centres. ● Greenbelt Buffer: Plantation of native species between the plant and nearest health centre to reduce air and noise impact. ● Monitoring: Third parity ambient air and noise quality within 0.5 km; data shared with local health authorities. ● Noise & Vibration Control: High-noise and vibration activities to be scheduled outside critical healthcare hours. ● CER Support: Provision of medical equipment, emergency kits, health camps, and training to nearby health centres. ● Emergency Preparedness: Health centres will be integrated into the project's disaster response and coordination plans.	
6.	**Latitude and Longitude of all corners of the project site.**	**A. Plant Site** S.NO. — LATITUDE — LONGITUDE 1 — 22°15'6.33"N — 82°43'7.97"E 2 — 22°15'0.77"N — 82°44'0.33"E 3 — 22°14'43.07"N — 82°44'0.14"E 4 — 22°14'44.22"N — 82°43'41.72"E 5 — 22°14'23.52"N — 82°43'36.86"E 6 — 22°14'21.68"N — 82°43'40.00"E 7 — 22°14'20.87"N — 82°43'36.47"E 8 — 22°14'17.87"N — 82°43'35.70"E 9 — 22°14'17.30"N — 82°43'35.83"E 10 — 22°14'17.28"N — 82°43'35.49"E 11 — 22°14'16.24"N — 82°43'35.17"E 12 — 22°14'16.24"N — 82°43'34.34"E 13 — 22°14'13.38"N — 82°43'32.92"E 14 — 22°14'13.28"N — 82°43'33.35"E 15 — 22°14'11.99"N — 82°43'33.15"E 16 — 22°14'12.02"N — 82°43'32.85"E 17 — 22°14'10.26"N — 82°43'32.39"E 18 — 22°14'10.15"N — 82°43'32.84"E 19 — 22°14'8.52"N — 82°43'32.50"E 20 — 22°14'7.59"N — 82°43'31.66"E 21 — 22°14'7.72"N — 82°43'30.45"E 22 — 22°14'5.72"N — 82°43'30.18"E 23 — 22°14'5.88"N — 82°43'28.86"E 24 — 22°14'5.14"N — 82°43'28.76"E 25 — 22°14'5.18"N — 82°43'27.02"E 26 — 22°14'4.20"N — 82°43'26.95"E 27 — 22°14'4.25"N — 82°43'25.51"E	

S. No.	Particulars	Details	Remarks

28	22°14'5.22"N	82°43'25.54"E
29	22°14'5.11"N	82°43'23.62"E
30	22°14'4.28"N	82°43'23.72"E
31	22°14'4.23"N	82°43'23.18"E
32	22°14'4.99"N	82°43'23.01"E
33	22°14'4.43"N	82°43'20.01"E
34	22°13'59.37"N	82°43'19.04"E
35	22°13'59.18"N	82°43'21.21"E
36	22°13'55.91"N	82°43'21.07"E
37	22°13'54.04"N	82°43'18.77"E
38	22°13'50.92"N	82°43'18.79"E
39	22°13'46.48"N	82°43'17.76"E
40	22°13'45.49"N	82°43'19.90"E
41	22°13'42.42"N	82°43'19.13"E
42	22°13'42.18"N	82°43'21.70"E
43	22°13'33.75"N	82°43'20.93"E
44	22°13'33.89"N	82°43'22.89"E
45	22°13'33.02"N	82°43'23.20"E
46	22°13'32.19"N	82°43'21.02"E
47	22°13'26.43"N	82°43'20.15"E
48	22°13'27.99"N	82°42'47.90"E
49	22°13'28.84"N	82°42'46.86"E
50	22°13'31.54"N	82°42'43.97"E
51	22°13'33.50"N	82°42'44.19"E
52	22°13'34.79"N	82°42'44.79"E
53	22°13'35.08"N	82°42'44.14"E
54	22°13'38.78"N	82°42'45.17"E
55	22°13'39.30"N	82°42'44.59"E
56	22°13'43.63"N	82°42'44.36"E
57	22°13'44.43"N	82°42'38.54"E
58	22°13'38.75"N	82°42'38.32"E
59	22°13'43.80"N	82°42'27.34"E
60	22°13'48.92"N	82°42'24.12"E
61	22°13'52.57"N	82°42'18.49"E
62	22°13'52.51"N	82°42'16.70"E
63	22°13'54.28"N	82°42'16.27"E
64	22°13'54.58"N	82°42'17.48"E
65	22°14'10.64"N	82°42'13.01"E
66	22°14'21.59"N	82°42'24.39"E
67	22°14'26.38"N	82°42'22.46"E
68	22°14'31.34"N	82°42'34.44"E
69	22°14'36.18"N	82°42'33.39"E
70	22°14'35.96"N	82°42'37.31"E
71	22°14'43.35"N	82°42'37.87"E
72	22°14'41.49"N	82°43'6.09"E

B. Ash Pond

S.No.	LATITUDE	LONGITUDE
1	22°14'25.56"N	82°42'42.84"E

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>2</td><td>22°14'24.25"N</td><td>82°43'15.48"E</td></tr>
<tr><td>3</td><td>22°14'6.95"N</td><td>82°43'14.13"E</td></tr>
<tr><td>4</td><td>22°14'9.29"N</td><td>82°42'41.31"E</td></tr>
</table>
</td><td></td></tr>
<tr><td>7.</td><td>Elevation of the project site</td><td>280-309 M above mean sea level</td><td>--</td></tr>
<tr><td>8.</td><td>Involvement of Forest land, if any.</td><td>No forest land involved.</td><td>--</td></tr>
<tr><td>9.</td><td>Water body (Rivers, Lakes, Pond, Nala, Natural Drainage,
Canal etc.) exists within the project site as well as study area</td><td>Project Site:
<table>
<tr><th>S. No.</th><th>Particulars</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td>1</td><td>Gogi Nala</td><td colspan="2">Within the project site</td></tr>
</table>
Study area:
<table>
<tr><th>S. No.</th><th>Water Body</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td>1</td><td>Togi Nala</td><td>0.8</td><td>N</td></tr>
<tr><td>2</td><td>Hasdeo Left Bank Canal</td><td>0.9</td><td>W</td></tr>
<tr><td>3</td><td>Hasdeo river</td><td>2.35</td><td>NW</td></tr>
<tr><td>4</td><td>Son Nadi</td><td>3.8</td><td>SSE</td></tr>
<tr><td>5</td><td>Hasdo Right Bank Canal</td><td>4.3</td><td>WNW</td></tr>
<tr><td>6</td><td>Dom Nala</td><td>5.1</td><td>NE</td></tr>
<tr><td>7</td><td>Gandgei Nala</td><td>6.1</td><td>W</td></tr>
<tr><td>8</td><td>Karra Nala</td><td>6.2</td><td>NNW</td></tr>
<tr><td>9</td><td>Bendo Nala</td><td>7.3</td><td>SSE</td></tr>
</table></td><td>HFL letter of the Hasdeo river has been obtained from WRD Korba which is 271.60 m, vide letter dated 20.11.2024.</td></tr>
<tr><td>10.</td><td>Archaeological sites monuments/ historical temples etc.</td><td>There are no Archaeological sites present within study area.</td><td>--</td></tr>
<tr><td>11.</td><td>Existence of ESZ/ ESA/ national park/wildlife sanctuary/biosphere reserve/ tiger reserve/elephant Reserve etc., if any within the study area.</td><td>Study area
Name of the ESZ/ESA: Nil
Status of Notification: NA
Distance of project from ESZ/ESA: NA
Authenticated map of ESZ projecting distance of ESZ from project site: NA
Status of NBWL approval: NA
List of Reserved and protected forests:
<table>
<tr><th>S. No.</th><th>Particulars</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td>1</td><td>Barpall R. F.</td><td>2.2</td><td>SW</td></tr>
<tr><td>2</td><td>Kudri P.F.</td><td>6.5</td><td>NNE</td></tr>
<tr><td>3</td><td>Tuman P.F.</td><td>7.3</td><td>SE</td></tr>
<tr><td>4</td><td>Bathapara R. F.</td><td>7.6</td><td>ESE</td></tr>
<tr><td>5</td><td>Pondibahar P.F.</td><td>7.8</td><td>NNE</td></tr>
</table></td><td></td></tr>
</table>

S. No.	Particulars	Details	Remarks
		6 | Ramapara P. F. | 9.5 | SE	
12.	**Facility envisaged in CRZ area (Only for coastal power plant)**	Name of the facility in CRZ area – **NA** Recommendations of CZMA – **NA** Status of CRZ clearance – **NA**	--
13.	**Involvement of Critically Polluted Area/Severely Polluted area as per 2018 CEPI score**	**Involvement of CPA/SPA:** - **NA** **Proximity to CPA/SPA:** - The nearest CPA is Siltara industrial area which is ~145 km from project boundary in SW Direction	--

33.3.6: The unit configuration and capacity of existing and proposed project is given as below:

Sr. No.	Existing power plant configuration and capacity	Proposed power Plant configuration and capacity	Total	Technology adopted
1	**Phase I (Operational)**: (2x300) 600 MW - Sub Critical **Phase II (Under Construction):** 1320 (2x660) - Super Critical	**Phase III:** 1600(2x800)MW - Ultra Super Critical	3520 MW	Sub, Super & Ultra Super Critical

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

Details	Fuel requirement (MTPA)	Source	Distance from site (Kms)	Mode of Transportation	Coal characteristics (Worst case scenario)	Linkage document
Coal (Operation Phase I)	3.30 **(MTPA)**	SECL, Korba	Within 50 Km	Rail	Ash <40 (%) Sulphur < 0.5 (%) Moisture-13 (%) GCV - 3200-3500 Kcal/Kg	FSA and E-auction
Coal (Under Construction Phase II)	5.24 **(MTPA)**	Korba/Raigarh coal mines of Southeastern Coalfields (SECL) and e-auction.	Within 50 Km	Rail	Ash <40 (%) Sulphur < 0.5 (%) Moisture-	FSA and E-auction

Details	Fuel requirement (MTPA)	Source	Distance from site (Kms)	Mode of Transportation	Coal characteristics (Worst case scenario)	Linkage document
					13 (%) GCV - 3200-4300 Kcal/Kg	
Coal (Proposed Phase III)	6.50 **(MTPA)**	Korba/Raigarh coal mines of Southeastern Coalfields (SECL) and e-auction.	Within 50 Km	Rail	Ash <40 (%) Sulphur < 0.5 (%) Moisture-13 (%) GCV - 3200-4300 Kcal/Kg	FSA and E-auction
LDO/HSD Operational Phase I)	2500 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors
LDO/HSD (Under Construction Phase II)	6000 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors
LDO/HSD (Proposed Phase II)	8000 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors

**** MTPA – Million Ton Per Annum***

33.3.8: Water requirement: Existing water requirement is 1,47,945 m^3 /day (Phase-I: 43,835 m^3/day + Phase-II: 1,04,110 m^3 /day), which is obtained from Hasdeo River and permission for the same has been obtained from WRD, Chhattisgarh vide letter no 5461/266/JS/TASA/02/ Raipur dated 17.11.2004 for Phase I Operation and vide lr. No. 6107/266/WR/TASA/ dated 27.10.2007 and 918/TAK/MA.Korba power Ltd./2024-25 dated 19.03.2025 for Phase II. The water requirement for the proposed project is estimated as 87,648 m^3 /day, out of which 87,648 m^3/day of fresh water requirement will be meet from the Hasdeo River. The permission for drawl of surface water is under process from WRD vide lr. No. 2241/Tech/Adani Power/2025 dated 01.07.2025. The water will be transported to the plant site through the existing pipeline. The specific water consumption for the proposed power plant will be < 2.5 m^3/MWhr.

33.3.9: Power requirement: Existing power requirement of 148 MW (Phase-I: 42 MW + Phase-II: 106 MW) is obtained from own TPP, i.e, AUX consumption. The power requirement for the proposed project is estimated as 96 MW, and will be obtained from the own TPP, i.e, AUX consumption.

33.3.10: 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	Municipal Solid Waste		Plant Canteen	49.2	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	3.1 TPA	Collected; segregated	Registered Recycler vendor
3	Battery waste from UPS		Automotive & Industrial	6.1 TPA	Collected; segregated	Authorized Vendor
4	Bio medical waste		First aid center	0.1 TPA	Collected; segregated	Authorized vendor
5	Hazardous Waste		Plant Operation	Empty Barrels/ Containers/ Contaminated Liners – 11 TPA, Used/ Spent Oil – 60 TPA, TPA, Waste or residues containing oil – 3.0 TPA		Registered Recyclers/Pre-processors with SPCB & Authorized Recyclers

33.3.11: Cost of project: Existing capital cost (Phase I & II) of project was Rs. 10,897 Crores. The capital cost of the proposed project is Rs.16,611 Crores and the capital cost for environmental protection measures is proposed as Rs 1,384.41 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 13.84 Crores. The employment generation from the proposed expansion project is 2270.

33.3.12: Green belt development: Existing green belt has been developed in 127.28 ha [Phase I – 85.21 Ha + Phase II – 42.07 Ha (Under Construction)] area which is about 33.62% of the total project area of 378.54 Ha (Phase- I & II) with total sapling of 3,18,200 no. of Trees [Phase I – 2,13,025 nos. + Phase II – 1,05,175 nos. (Plantation will be developed along with plant construction). The proposed greenbelt will be developed in 31.76 Ha which is about 25% of the total proposed project area of 127.04 Ha Thus, total of 159.04 Ha area will be developed as greenbelt. A 10m wide greenbelt, consisting of thick greenbelt and green cover shall be developed as per CPCB guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 79,400 saplings will be planted and nurtured in 31.76 hectares in 10 years.

Year	Quantity generated (MT)	Quantity utilized (MT)	% of utilization	Balance quantity (MTP)	No of storage silos with capacity
FY 2022-23	1036446	1462739	141.74	---	3000 MT (2x1500 MT)
FY 2023-24	1137257	912278	80.53	224979	

FY 2024-25	1239078	1163541	93.90	75537	

A. Fly ash details for last three years= 29,58,437 MTPA **(2.95 MMT)** (Utilization)

S. No.	Activity (as applicable)	Quantity TPA	Percentage (%)	Remarks (Prior approval of SPCB details to be mentioned)
1.	Fly ash based products (bricks or blocks or tiles or fiber cement sheets or pipes or boards or panels)	94,969	3.21	….
2.	Cement manufacturing	12,24,588	41.39	….
3.	Construction of roads, road and fly over embankment	61,480	2.08	…
4.	Filling up of Stone Quarry /Voide Mines/low lying area	15,77,400	53.32	NOC from CECB
	Total	**29,58,437**	**100**	

**MTPA: Metric Ton Per Annum*

B. Bottom ash details for last three years= 5,79,849 MTPA **(0.58 MMT)**

S. No.	Activity (as applicable)	Quantity	Percentage	Remarks (Prior approval of SPCB details to be mentioned)
1.	Construction of roads, road and fly over embankment	3,89,204	67.12	….
2.	Filling up of Stone Quarry /Void Mines/low lying area	1,90,645	32.88	NOC from CECB
	Total	**5,79,849**	**100**	…

**MTPA: Metric Ton Per Annum*

C. Legacy ash details: NIL

D. Proposed ash utilization plan for expansion project:

Details	Existing generation	Proposed generation in MTPA	Total	Utilization (MTPA)	% of utilization	Balance quantity (MTPA)	No. of storage silos with capacity in MT
Ash	(Operational) Phase I - 1.31	Phase II (Under Construction) – 2.10 Phase III -2.	6.01	6.01	100	…	**Ph- I**: 2x1500 MT **Ph-II**: 3x2200 MT **Ph-III:** 6x2500

		6 (Proposed)					MT

Ash Pond details- APL has proposed an ash pond, details of which are given below:

S. No.	Details of Ash pond	Ash pond 1	Ash pond 2	Total
1.	Status of ash pond (Active / Exhausted (yet to be reclaimed)/ Reclaimed)	Active	Under Construction	Active & Under Construction
2.	Area (Ha)	30.21	19.1	49.3
3.	Dyke height (m)	28.5	15	28.5 & 15
4.	Volume (m^3)	86,09,850	28,65,000	114,74,850
5.	Quantity of ash disposed (Million Metric Tons)	6.570	0	6.570
6.	Available volume in percentage (per cent) and quantity of ash can be further disposed of (Metric Tons)	23.69 % & 2,039,641 MT	100% & 28,65,000	57.25 % & 49,04,641 MT
7.	Expected life of ash pond (number of years and months)	15 Years considering April 2025	15 Years	15 Years considering April 2025
8.	Type lining carried in ash pond: HDPE lining of LDPE lining or cla y lining or No lining	LDPE & HDPE	LDPE & HDPE	LDPE & HDPE
9.	Mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD)	LCSD	HCSD/MCSD	LCSD
10.	Ratio of ash: water in slurry mix (1:_):	35:65	65:35	1:4
11.	Ash water recycling system (AWRS) installed and functioning: Yes or No	Yes	Yes	Yes
12.	Quantity of wastewater from ash pond discharged into land or water body (m^3)	00	00	00
13.	Last date when the dyke stability study was conducted and name of the organization who conducted the study:	March 2025 Visvesvaraya National Institute of Technology (VNIT), N	NA	March 2025 Visvesvaraya National Institute of Technology (VNIT), Nagpur, Maha

S. No.	Details of Ash pond	Ash pond 1	Ash pond 2	Total
		agpur, Maharashtra		rashtra
14.	Last date when the audit was conducted and name of the organization who conducted the audit:	November 2024, NIT Rourkela	NA	November 2024, NIT Rourkela

33.3.14: Baseline data collection: Baseline data collection period from ***October'2024 to December'2024***

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
A. Air				
a. Meteorological parameters	Wind speed, Wind direction, Relative Humidity, Rainfall, Solar radiation and Cloud Cover	01	Hourly	...
b. AAQ parameters	PM_{10}, $PM_{2.5}$, SO_2, NO_2, O_3, CO, Pb, C_6H_6, NH_3, BaP, As, Ni & Hg	11	24 hourly data, twice a week	...
B. Noise	Hourly equivalent noise levels	11	One time sampling	...
C. Water				
Ground water quality parameters	Physical parameters – (pH, temp, colour, turbidity, odour, taste, TDS), Chemical parameters - (Total hardness, calcium, total alkalinity, chloride, magnesium, sulphate, fluoride, nitrate, iron, boron, chromium, Heavy metals like Hg, As, Pb, Ni, Mn, Cd) & microbiological parameters – (Total coliforms, E-coli) etc.	15	One time sampling	...
Surface water	Physical parameters – (pH, temp, colour, turbidity, odour, taste), Chemical parameters - (Total hardness, calcium, total alkalinity, chloride, magnesium, TDS, sulphate, fluoride, nitrate, iron, alumini	08	One time sampling	...

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
	um, boron, chromium, conductivity, BOD, COD, DO, TSS, Heavy metals like Hg, As, Pb, Ni, Mn, Cd) & microbiological parameters – (Total coliforms, faecal coliforms) etc.			
D. Land				
a. Soil quality	Particle size distribution; Texture, pH, Electrical conductivity, cation exchange capacity (CEC), Alkali metals, Sodium Absorption Ratio (SAR), Permeability, Porosity, available nitrogen, available phosphorous, potassium, heavy metals like – As, Hg etc	11	One-time sampling.	...
b. Land use	Location code, Total project area, Topography, Drainage (natural) Cultivated, forest plantations, water bodies, roads, settlements and identification of common property resources (such as grazing and community land, water resources etc.) available	10 kms radius	Once	...
E. Biological				
c. Aquatic	Primary productivity, Enumeration of phytoplankton, zooplankton Fisheries Diversity indices Trophic levels, Rare and endangered species, etc.	Samples collected from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site.	Once during the study	...
d. Terrestrial	Vegetation – species, list, economic importance, forest produce, medicinal value Importance value index (IVI) of trees and wild animals	Considering probable impact, sampling points and number of samples decided on established guidelines on ecological studies based on site eco- environment setting within 10 km radius from the proposed.	One time	...
e. Fauna:	Rare and endangered species Sanctuaries / National park / Biosphere reserve. Listing of birds, mammals, reptiles, am	For forest studies, chronic as well as short- term impacts analysed	One time	...

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
	phibians etc.	warranting data on micro climate conditions.		
F. Socio-economic parameters	Demographic structure Infrastructure resource base	Socio-economic sample survey	One time	...

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

A. Summary of court cases: There are four (04) court cases pertaining to local civil court and other arbitration. However, no cases are pertaining related to Environment.

Sl. No	Case no.	Name of Court Details	Brief Summary of the Case	Last date of hearing	Next date/ Order Passed	Action taken by PP
1	Civil suit No. 4A/2017	Civil Court Division Korba	Objections raised by Devermal villagers for stopping the construction.	16.09.2025	10.11.2025	Evidence Defendant
2	Civil suit no 34 A/2018	Civil Court Division Court- Korba	Seeking stay order from the court that Land losers of unit 3 & 4 stop making agitations in front of operational unit Gate.	25.07.2025	Disposed	Stay Order from Court is expected to stop agitations.
3	Civil suit No. 49 A/2019	Third Civil Judge Sr. Division Korba	It's a family dispute for Land which was Award decree of 2.27 acres belong to him prior to acquisition of land. Lease deed has made between CSIDC & LAPL on 05.03.2013.	19.09.2025	12.11.2025	Argument on our application for a amendment and for taking documents on record.
4	Civil suit no. 109 B/19	Civil Court Division Raipur	Asking for payment of Rs. 1,43,500/- on account of expenses of whitewashing of the house and two months rent of Rs. 70,000/- & inco	05.08.2025	24.11.2025	After detailed discussions with the Legal Team at Head Office, it has been decided to close the case by making payment of the claimed amount to the concerned p

Sl. No	Case no.	Name of Court Details	Brief Summary of the Case	Last date of hearing	Next date/ Order Passed	Action taken by PP
			me tax loss Rs. 3,500/- (Rs. 2, 13,500/-)			arty. Accordingly, our lawyer will engage in discussions with the said party, and steps will be taken to finalize the closure during the next proposed hearing.

B. Summary of Show Cause Notices: There are no Show Cause Notices pertaining to Environment & Forest.

3.3.3. Deliberations by the committee in previous meetings

N/A

3.3.4. Deliberations by the EAC in current meetings

33.3.16: The Committee observed and noted the following:
Recommendations of the Committee
33.3.17: The EAC after detailed deliberations on the information submitted and as presented during the meeting ***recommended*** the proposal for grant of ToR for conducting an EIA study for the above project under the provisions of the EIA Notification, 2006 and as amended **subject to stipulation** the following specific ToR in addition to the generic ToRs.

3.3.5. Recommendation of EAC

Recommended

3.3.6. Details of Terms of Reference

3.3.6.1. Specific

Environmental Management and Biodiversity Conservation	
1.	A Cumulative Environmental Impact Assessment study of all the existing and proposed projects in the 10-km. radius of the proposed project shall be conducted and the same shall be included the in EIA/EMP report. Details of industrial units present in 10 km. radius of the power plant shall be earmarked in map and submitted.
2.	Certified compliance report containing compliance to the prescribed EC conditions for the 2x300 MW (Phase I) and 2x660MW (Phase II) as per the MoEF&CC, O.M. dated 08/06/2022, shall be submitted.
3.	Project Proponent shall explore the feasibility of using water from coal mine void and treated sewage from Sewage Treatment Plants located within 50 km. radius of the proposed project as an alternative to the fresh water source to minimize the freshwater drawl from surface water bodies. Action plan in this

	regard shall be submitted.
4.	Project proponent shall explore the feasibility of using air cooled condenser in place of water-cooled condenser and details shall be incorporated in the final EIA/EMP report.
5.	Certificate from concerned District Magistrate/Executive Engineer from the State Water Resources department (or) any officer authorized by the State Government in this regard shall be submitted stating that project site is not located within flood plain corresponding to one in 25 years of flood as per Ministry's O.M. dated 14/02/2022.
6.	All the parameters as mentioned in the National Ambient Air Quality Standards (NAAQS) shall be monitored by the project proponent.
7.	Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests if any, along with the mitigation measures to be followed.
8.	EIA/EMP study shall take into consideration the different scenarios arising due to change of coal source, impact on environmental attributes due to change of coal source along with corresponding mitigation measures with EMP budget shall be submitted.
9.	Biodiversity analysis of the project site and study area shall be done through any NABET accredited consultant. The study report shall inter-alia include impact of release of cooling tower water on aquatic life and action plan for complying with the mitigation measures shall be submitted.
10.	A biodiversity and ecosystem study of the Hasdeo River shall be conducted by an accredited or nationally recognized institute/organization and submitted along with the EIA and EMP report.
11.	Project proponent shall commission a study on Hydrology and Hydrogeology of the project site as well as the study area of the project site through a NABET accredited consultant. The study report along with the action plan for implementing the recommendations of the report shall be submitted along with the EIA/EMP report.
12.	Radioactivity studies along with coal analysis to be provided (Sulphur, ash percentage and heavy metals including Pb, Cr, As and Hg). Details of auxiliary fuel, if any including its quantity, quality, storage, etc should also be given.
13.	PP should submit the detailed plan in tabular format (year-wise) for concurrent afforestation and green belt development in and around the project site covering 33 % of the project area. The PP should submit the number of saplings to be planted, names of native species, area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling should be of native and few fruit bearing species mainly, of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided.
14.	Action plan for development of three-tier plantation programme (33.0% of total project cover area) along the periphery of the project boundary and the coal transportation route shall be provided. PP shall submit concurrent plantation plan.
15.	Project proponent shall explore the feasibility of additional green belt development in the land outside the plant area. Action plan in this regard shall be submitted by the proponent.

16.	Detailed action plan shall be prepared for maintenance of air pollution control equipment for existing, under construction and proposed units and shall be incorporated in the EIA/EMP report.
17.	Details of Ash management plan as per MoEF&CC notification dated 31/12/2021 & its subsequent amendment for the proposed project shall be submitted. MoU signed for ash utilization with companies shall be submitted.
18.	Action plan for dry ash collection system (Bottom ash and Fly ash) shall be submitted.
19.	Action plan for disposal of ash through High Concentration Slurry Disposal (only in emergency conditions) shall be submitted.
20.	Proper protection measures like high-density polyethylene (HDPE) lining, appropriate height of bund and adequate distance between the Ash Pond and water body (minimum 60 meters) etc. shall be planned to reduce the possibility of mixing leachate with any freshwater body for ash pond. A high-density Slurry disposal plan shall be prepared. PP shall submit the study of stability and life of existing ponds.
21.	Pond and Ground water quality (10 locations within 2 km.radius of the plant boundary) shall be studied, and report be submitted along with EIA/EMP. Action plan for Ground water monitoring stations on all hotspots like schools/hospitals within 2 km. radius of the plant boundary be submitted. Baseline Study for Heavy metals in Groundwater, Surface water and soil to be carried out and incorporated in EIA/EMP report.
22.	Details pertaining to water source, treatment and discharge should be provided.
23.	PP shall provide the details of wastewater treatment facilities to be installed within its capacity, timeline, and budget.
24.	Project Proponent to conduct Environmental Cost Benefit Analysis for the project in EIA/EMP Report.
25.	An action plan shall be prepared for Water shed development within 10 km. radius of the plant boundary in consultation with reputed government institution and incorporated in EIA/EMP report.
26.	PP should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total material handled) and steps to be taken for reduction of the same. The year-wise target for reduction in the specific diesel consumption needs to be submitted. PP shall also explore the possibility of using e-vehicles/LNG/CNG-based machinery and trucks for the operation and transportation of Coal and ash and submit an implementation strategy.
27.	PP shall provide the details of transportation of fly ash through fly ash bulkers from the plant, transportation route, action plan regarding spillages of fly ash if any on transportation route, etc. Further, carry out a traffic study for at least one month and provide the impact of transportation along with the mitigation measures.
28.	PP shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.

29.	Details on renewable energy (solar plant) proposed to be installed as energy conservation measures and action plan for the same shall be submitted.
30.	The input parameters for the AAQ modelling and the influence of various combinations of these on the AAQ must be reported in the EIA/EMP Report. In addition to the Wind Rose diagram collected for one season during the preparation of the EIA report, wind rose diagram for all seasons must be provided using secondary data from sources such as IMD/CPCB etc.
31.	Project proponent shall take all necessary steps to control the Air Quality and take additional mitigation measures for proposed TPP to maintain the Ambient Air Quality values within the limits. The action plan regarding maintaining ambient quality standards (Time weighted average for 24 hours and Annual both) be submitted. Further, project proponent shall submit an undertaking to abide by the provisions of the notification number G.S.R 465 (E) dated 11/07/2025 related to SO2 emission norms, as amended, and any subsequent amendment there of pursuant to the outcome of study carried out by CPCB in this regard.
32.	Details of air pollution control devices to be installed in the proposed 2x800 MW TPP (Phase-III) along with its maintenance schedule shall be incorporated in EIA/EMP report.
33.	Carbon emission due to all TPP units in premises and allied carbon sequestration/ carbon offsetting plan be submitted.
34.	PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign, which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than green belt development. An action plan in this regard shall be submitted.
Disaster Management	
1.	A Disaster Management Plan shall be prepared and incorporated in the EIA/EMP report.
Socio-economic study	
1.	Public Health Action Plan including the provisions for drinking water supply for the local population shall be in the EIA/EMP Report. The status of the existing medical facilities in the project area shall be discussed. Possibilities of strengthening of existing medical facilities, construction of new medical infrastructure etc. will be explored after assessing the needs of the labour force and local populace.
2.	Public consultation (Public Hearing and Written submission) shall be conducted as per the provisions of EIA Notification, 2006 and as amended. As per the Ministry's OM dated 30.09.2020, to address the concern raised during the Public Hearing, the Project Proponent is required to submit the detailed activities proposed with year wise budgetary provision (Capital and recurring) for 5 years. Activities proposed shall be part of EMP. Tentative no. of project affected families (if any) shall be identified and accordingly appropriate Rehabilitation & Resettlement plan shall be prepared. The recommendation Socio-economic study may also be considered while planning the activities & budget.
3.	A need based Social Impact Assessment Study shall also be carried out and an action plan on its

	recommendations may also be submitted with budgetary provisions.
4.	Demographic details and land use change details within 10 km area shall be submitted.
5.	The PP shall submit a detailed plan for providing solar light facilities, sanitation, drinking water, and plantation within the premises of five nearest schools.
Miscellaneous	
1.	Plot the wind rose diagram using the Typical Meteorological Year (TMY) data for the period considered for the study. The monitoring units shall be deployed in the field based on the coverage area ratio and direction of the wind. A mathematical model shall be developed for the local site rather than using the standard model available in software for both air & water quality modelling.
2.	PP shall conduct a risk assessment study by the national/reputed Institute and submit along with the EIA/EMP reports.
3.	PP shall align its activities to one/few of the Sustainable Development Goals (SDG) and start working on the mission of net zero by 2050. PPs shall update the same to the EAC.
4.	PP shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
5.	Detailed description of all the court cases along with its current status shall be submitted.
6.	PP should provide in the EIA Report details of all the statutory clearances, permissions, no objection certificates, consents etc. obtained for this project under various Acts, Rules and regulations shall be submitted. Further, all the permissions/MoUs obtained for this project shall be revalidated and submitted along with the EIA/EMP report.
7.	The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs, which will analyse the samples.
8.	PP should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of persons to be engaged for the implementation of Environmental Management Plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.
9.	PP should submit the year-wise, activity wise and time-bound budget earmarked for EMP, occupational health surveillance, and activities proposed to address the issues raised during Public Hearing. The capital and recurring expenditure to be incurred needs to be submitted.
10.	Activities shall be prepared based on the issues arise during public hearing conducted and fresh written submission with defined timeline and budgetary provisions.
11.	Aerial view video of project site and coal transportation route proposed for this project shall be recorded through drone and be submitted.

12.	The PP should ensure that only NABET-accredited consultants shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that the accreditation of the consultant is valid during the collection of baseline data, preparation of EIA/EMP report and the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and the PP and consultant are fully accountable for the same.
13.	PP should provide in the EIA Report details of the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline after the grant of EC.
14.	All the certificates viz. involvement of Forestland, distance from the protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.
15.	Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025 and 08.10.2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12.11.2024 through which projects requiring prior EC were exempted from requirement of CTE.

3.3.6.2. Standard

1(d)	**Thermal Power Plants**
Statutory compliance	
1.	The proposed project shall be given a unique name in consonance with the name submitted to other Government Departments etc. for its better identification and reference.
2.	Vision document specifying prospective long term plan of the project shall be formulated and submitted.
3.	Latest compliance report duly certified by the Regional Office of MoEF&CC for the conditions stipulated in the environmental and CRZ clearances of the previous phase(s) for the expansion projects shall be submitted.
Details of the Project and Site	
1.	The project proponent needs to identify minimum three potential sites based on environmental, ecological and economic considerations, and choose one appropriate site having minimum impacts on ecology and environment. A detailed comparison of the sites in this regard shall be submitted.
2.	Executive summary of the project indicating relevant details along with recent photographs of the proposed site (s) shall be provided. Response to the issues raised during Public Hearing and the written representations (if any), along with a time bound Action Plan and budgetary allocations to address the same, shall be provided in a tabular form, against each action proposed.
3.	Harnessing solar power within the premises of the plant particularly at available roof tops and other available areas shall be formulated and for expansion projects, status of implementation shall also be submitted.
4.	The geographical coordinates (WGS 84) of the proposed site (plant boundary), including location of ash

	pond along with topo sheet (1:50,000 scale) and IRS satellite map of the area, shall be submitted. Elevation of plant site and ash pond with respect to HFL of water body/nallah/River and high tide level from the sea shall be specified, if the site is located in proximity to them.
5.	Layout plan indicating break-up of plant area, ash pond, green belt, infrastructure, roads etc. shall be provided.
6.	Land requirement for the project shall be optimized and in any case not more than what has been specified by CEA from time to time. Item wise break up of land requirement shall be provided.
7.	Present land use (including land class/kism) as per the revenue records and State Govt. records of the proposed site shall be furnished. Information on land to be acquired including coal transportation system, laying of pipeline, ROW, transmission lines etc. shall be specifically submitted. Status of land acquisition and litigation, if any, should be provided.
8.	If the project involves forest land, details of application, including date of application, area applied for, and application registration number, for diversion under FCA and its status should be provided along with copies of relevant documents.
9.	The land acquisition and R&R scheme with a time bound Action Plan should be formulated and addressed in the EIA report.
10.	Satellite imagery and authenticated topo sheet indicating drainage, cropping pattern, water bodies (wetland, river system, stream, nallahs, ponds etc.), location of nearest habitations (villages), creeks, mangroves, rivers, reservoirs etc. in the study area shall be provided.
11.	Topography of the study area supported by toposheet on 1:50,000 scale of Survey of India, along with a large scale map preferably of 1:25,000 scale and the specific information whether the site requires any filling shall be provided. In that case, details of filling, quantity of required fill material; its source, transportation etc. shall be submitted.
Ecology biodiversity and Environment	
1.	A detailed study on land use pattern in the study area shall be carried out including identification of common property resources (such as grazing and community land, water resources etc.) available and Action Plan for its protection and management shall be formulated. If acquisition of grazing land is involved, it shall be ensured that an equal area of grazing land be acquired and developed and detailed plan submitted.
2.	Location of any National Park, Sanctuary, Elephant/Tiger Reserve (existing as well as proposed), migratory routes / wildlife corridor, if any, within 10 km of the project site shall be specified and marked on the map duly authenticated by the Chief Wildlife Warden of the State or an officer authorized by him.
3.	A mineralogical map of the proposed site (including soil type) and information (if available) that the site is not located on potentially mineable mineral deposit shall be submitted.
4.	The water requirement shall be optimized (by adopting measures such as dry fly ash and dry bottom ash disposal system, air cooled condenser, concept of zero discharge) and in any case not more than that stipulated by CEA from time to time, to be submitted along with details of source of water and water balance diagram. Details of water balance calculated shall take into account reuse and re- circulation of effluents.
5.	Water body/Nallah (if any) passing across the site should not be disturbed as far as possible. In case any Nallah / drain is proposed to be diverted, it shall be ensured that the diversion does not disturb the

	natural drainage pattern of the area. Details of proposed diversion shall be furnished duly approved by the concerned Department of the State.
6.	It shall also be ensured that a minimum of 500 m distance of plant boundary is kept from the HFL of river system / streams etc. and the boundary of site should also be located 500 m away from railway track and National Highways.
7.	Hydro-geological study of the area shall be carried out through an institute/ organization of repute to assess the impact on ground and surface water regimes. Specific mitigation measures shall be spelt out and time bound Action Plan for its implementation shall be submitted
8.	Detailed Studies on the impacts of the ecology including fisheries of the River/Estuary/Sea due to the proposed withdrawal of water / discharge of treated wastewater into the River/Sea etc shall be carried out and submitted along with the EIA Report. In case of requirement of marine impact assessment study, the location of intake and outfall shall be clearly specified along with depth of water drawl and discharge into open sea.
9.	Source of water and its sustainability even in lean season shall be provided along with details of ecological impacts arising out of withdrawal of water and taking into account inter-state shares (if any). Information on other competing sources downstream of the proposed project and commitment regarding availability of requisite quantity of water from the Competent Authority shall be provided along with letter / document stating firm allocation of water.
10.	Detailed plan for rainwater harvesting and its proposed utilization in the plant shall be furnished.In addition, wherever ground water is drawn, PP shall submit detailed plan of Water charging activity to be undertaken.
11.	Feasibility of near zero discharge concept shall be critically examined and its details submitted.
12.	Optimization of Cycles of Concentration (COC) along with other water conservation measures in the project shall be specified.
13.	Plan for recirculation of ash pond water and its implementation shall be submitted.
14.	Detailed plan for conducting monitoring of water quality regularly with proper maintenance of records shall be formulated. Detail of methodology and identification of monitoring points (between the plant and drainage in the direction of flow of surface / ground water) shall be submitted. It shall be ensured that parameter to be monitored also include heavy metals. A provision for long-term monitoring of ground water table using Piezometer shall be incorporated in EIA, particularly from the study area.
15.	Hazards Characterization: Past incidents of hazard events within 10km radius of project area with detailed analysis of causes and probability of reoccurrence
Environmental Baseline study and mitigation measures	
1.	One complete season (critical season) site specific meteorological and AAQ data (except monsoon season) as per latest MoEF&CC Notification shall be collected along with past three year's meteorological data for that particular season for wins speed analysisand the dates of monitoring shall be recorded. The parameters to be covered for AAQ shall include PM10, PM2.5, SO2, NOx, CO and Hg. The location of the monitoring stations should be so decided so as to take into consideration the upwind direction, pre-dominant downwind direction, other dominant directions, habitation and sensitive receptors. There should be at least one monitoring station each in the upwind and in the pre - dominant

	downwind direction at a location where maximum ground level concentration is likely to occur.
2.	In case of expansion project, air quality monitoring data of 104 observations a year for relevant parameters at air quality monitoring stations as identified/stipulated shall be submitted to assess for compliance of AAQ Standards (annual average as well as 24 hrs).
3.	A list of industries existing and proposed in the study area shall be furnished.
4.	Cumulative impacts of all sources of emissions including handling and transportation of existing and proposed projects on the environment of the area shall be assessed in detail. Details of the Model used and the input data used for modelling shall also be provided. The air quality contours should be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any. The windrose and isopleths should also be shown on the location map. The cumulative study should also include impacts on water, soil and socio-economics.
5.	Radio activity and heavy metal contents of coal to be sourced shall be examined and submitted along with laboratory reports.
6.	Fuel analysis shall be provided. Details of auxiliary fuel, if any, including its quantity, quality, storage etc should also be furnished.
7.	Quantity of fuel required, its source and characteristics and documentary evidence to substantiate confirmed fuel linkage shall be furnished. The Ministry's Notification dated 02.01.2014 regarding ash content in coal shall be complied. For the expansion projects, the compliance of the existing units to the said Notification shall also be submitted
8.	Details of transportation of fuel from the source (including port handling) to the proposed plant and its impact on ambient AAQ shall be suitably assessed and submitted. If transportation entails a long distance it shall be ensured that rail transportation to the site shall be first assessed. Wagon loading at source shall preferably be through silo/conveyor belt.
9.	For proposals based on imported coal, inland transportation and port handling and rail movement shall be examined and details furnished. The approval of the Port and Rail Authorities shall be submitted.
10.	Details regarding infrastructure facilities such as sanitation, fuel, restrooms, medical facilities, safety during construction phase etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase should be adequately catered for and details furnished.
Environmental Management Plan	
1.	EMP to mitigate the adverse impacts due to the project along with item - wise cost of its implementation in a time bound manner shall be specified.
2.	A Disaster Management Plan (DMP) along with risk assessment study including fire and explosion issues due to storage and use of fuel should be prepared. It should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the proposed activities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures should be provided. Measures to guard against fire hazards should also be invariably provided. Provision for mock drills shall be suitably incorporated to check the efficiency of the plans drawn.
3.	The DMP so formulated shall include measures against likely Fires/Tsunami/Cyclones/Storm Surges/ Earthquakes etc, as applicable. It shall be ensured that DMP consists of both On-site and Off-site plans,

	complete with details of containing likely disaster and shall specifically mention personnel identified for the task. Smaller version of the plan for different possible disasters shall be prepared both in English and local languages and circulated widely.
4.	Details of fly ash utilization plan as per the latest fly ash Utilization Notification of GOI along with firm agreements / MoU with contracting parties including other usages etc. shall be submitted. The plan shall also include disposal method / mechanism of bottom ash along with monitoring mechanism.
Green belt development	
1.	Detailed scheme for raising green belt of native species of appropriate width (50 to 100 m) and consisting of at least 3 tiers around plant boundary not less than 2000 tree per ha with survival rate of more than 85%shall be submitted. Photographic evidence must be created and submitted periodically including NRSA reports in case of expansion projects. A shrub layer beneath tree layer would serve as an effective sieve for dust and sink for CO2 and other gaseous pollutants and hence a stratified green belt should be developed.
2.	Over and above the green belt, as carbon sink, plan for additional plantation shall be drawn by identifying blocks of degraded forests, in close consultation with the District Forests Department. In pursuance to this the project proponent shall formulate time bound Action Plans along with financial allocation and shall submit status of implementation to the Ministry every six months
Socio-economic activities	
1.	Socio-economic study of the study area comprising of 10 km from the plant site shall be carried out through a reputed institute / agency which shall consist of detail assessment of the impact on livelihood of the local communities.
2.	Action Plan for identification of local employable youth for training in skills, relevant to the project, for eventual employment in the project itself shall be formulated and numbers specified during construction & operation phases of the Project.
3.	If the area has tribal population, it shall be ensured that the rights of tribals are well protected. The project proponent shall accordingly identify tribal issues under various provisions of the law of the land.
4.	A detailed CER plan along with activities wise break up of financial commitment shall be prepared in terms of the provisions OM No. 22-65/2017-IA.III dated 30.09.2020.CER component shall be identified considering need based assessment study and Public Hearing issues. Sustainable income generating measures which can help in upliftment of affected section of society, which is consistent with the traditional skills of the people shall be identified.
5.	While formulating CER schemes it shall be ensured that an in-built monitoring mechanism for the schemes identified are in place and mechanism for conducting annual social audit from the nearest government institute of repute in the region shall be prepared. The project proponent shall also provide Action Plan for the status of implementation of the scheme from time to time and dovetail the same with any Govt. scheme(s). CERdetails done in the past should be clearly spelt out in case of expansion projects.
6.	R&R plan, as applicable, shall be formulated wherein mechanism for protecting the rights and livelihood of the people in the region who are likely to be impacted, is taken into consideration. R&R plan shall be formulated after a detailed census of population based on socio economic surveys who were dependant on land falling in the project, as well as, population who were dependant on land not owned by them.
7.	Assessment of occupational health and endemic diseases of environmental origin in the study area shall

	be carried out and Action Plan to mitigate the same shall be prepared.
8.	Occupational health and safety measures for the workers including identification of work related health hazards shall be formulated. The company shall engage full time qualified doctors who are trained in occupational health. Health monitoring of the workers shall be conducted at periodic intervals and health records maintained. Awareness programme for workers due to likely adverse impact on their health due to working in non-conducive environment shall be carried out and precautionary measures like use of personal equipments etc. shall be provided. Review of impact of various health measures undertaken at intervals of two to three years shall be conducted with an excellent follow up plan of action wherever required.
Corporate Environment Policy	
1.	Does the company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
2.	Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
3.	What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions. Details of this system may be given.
4.	Does the company has compliance management system in place wherein compliance status along with compliances / violations of environmental norms are reported to the CMD and the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.
Miscellaneous	
1.	All the above details should be adequately brought out in the EIA report and in the presentation to the Committee.
2.	Details of litigation pending or otherwise with respect to project in any Court, Tribunal etc. shall invariably be furnished.
3.	In case any dismantling of old plants are envisaged, the planned land use & land reclamation of dismantled area to be furnished.

4. Any Other Item(s)

N/A

5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Dr Santoshkumar Hampannavar	Member (EAC)	san**********@yahoo.com	Present
2	Shri K B Biswas	Member (EAC)	bis*********@gmail.com	Present
3	Shri Mahi Pal Singh	Member (EAC)	mps********@nic.in	Present

4	Sundar Ramanathan	Scientist - F	r.s*****@nic.in	Present
5	Sh Inder Pal Singh Matharu IFS	Chairman, EAC	mat********@gmail.com	Present
6	Sh Lalit Kapur	Member (EAC)	lka********@yahoo.com	Present
7	Dr Umesh Jagannathrao Kahalekar	Member (EAC)	uka*******@gmail.com	Present
8	Sh Savalge Chandrasekhar	Member (EAC)	sav*****@gmail.com	Absent
9	Prof Shyam Shanker Singh	Member (EAC)	sin********@gmail.com	Present
10	Dr Vinod Agrawal	Member (EAC)	vin*****@yahoo.com	Present
11	Shri Harmeet Sahaney	Member (EAC)	har***********@imd.gov.in	Absent
12	Prof R M Bhattacharjee	Member (EAC)	rmb***********@iitism.ac.in	Present
13	Shri Prasoon Gargava	Scientist F	pra*********@nic.in	Present

Ministry of Environment, Forest and Climate Change
Impact Assessment Division
(Thermal sector)

Date of zero draft MoM sent to Chairman: 25/11/2025
Approval by Chairman: 27/11/2025
Uploading on PARIVESH: 27/11/2025

SUMMARY RECORD OF THE THIRTY THIRD (33rd) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 19TH NOVEMBER, 2025 FOR ENVIRONMENT APPRAISAL OF THERMAL SECTOR PROJECTS THROUGH VIRTUAL MODE.

19th November, 2025 [Wednesday]

At the outset, Shri. Inder Pal Singh Matharu (I.F.S Retd.), Chairman, Expert Appraisal Committee (Thermal Power & Coal Mining) welcomed the Expert members & other participants and requested to start the proceeding as per the agenda listed for this meeting. The list of EAC members who participated in the meeting is at **Annexure – I**.

Confirmation of the Minutes of the 32nd Meeting of the EAC (Thermal): The minutes of the 32nd Meeting of the EAC (Thermal) held on 30th October, 2025 has been confirmed by the EAC as uploaded on Parivesh.

Agenda No: 33.1

33.1: Expansion of existing Power Plant Phase-I 1x600MW (Operational) and Phase II 2x800 MW Ultra Super Critical (under construction) by adding **Phase III 2x800MW Ultra Super Critical TPP** by M/s. **Adani Power Limited** located at Villages Chhote & Bade Bhandar, Barpali, Kotmara and Sarwani, Tehsil Pussore, **District Raigarh,** Chhattisgarh – **Prescribing of Terms of Reference (ToR) – reg.**

[Proposal No: IA/CG/THE/554780/2025] [F. No. J-13012/57/2008.IA. II(T)]

33.1.1: **M/s. Adani Power Limited** has made an online application vide proposal number **IA/CG/THE/554780/2025** dated **16/10/2025** in the prescribed format (CAF, Form – I Part A & B) along with the copy of Pre-Feasibility Report and proposed Terms of References for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at item no. 1(d) Under Category "A" of the schedule of the EIA Notification and appraised at Central Level. The project do not attract the provisions of the general condition of the EIA Notiifcation, 2006.

Name of the EIA consultant: **M/s GreenC India Consulting Private Limited. [**Listed at 124**,** Certificate No. NABET/EIA/2326/RA 0297 dated 25/08/2023 valid up to 22/02/2026].

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

33.1.2: The proposed project is for expansion of existing Power Plant Phase-I 1x600MW (Operational) and Phase II 2x800 MW Ultra Super Critical (under construction) by adding Phase III 2x800MW, Ultra Super Critical TPP at Villages Chhote & Bade Bhandar, Barpali,

Kotmara and Sarwani, Tehsil Pussore, District Raigarh, Chhattisgarh by M/s. Adani Power Limited, Raigarh.

33.1.3: The existing project "1X600MW Phase-I Coal based Thermal Power Project" was accorded environmental clearance vide lr.no. J 13012/57/2008·IA.II (T) dated 20.05.2010 and subsequently the EC was amended on 16.04.2015, 26.11.2019 and 30.07.2020. The EC was transferred from M/s KWPCL to M/s REGL on dated 22.10.2019, and thereafter from M/s REGL to M/s APL on 24.04.2023. The EC for phase II project was granted vide lr. no. J-13012/57/2008.IA.II (T) dated 01.01.2025 for setting up a USCTPP 1600 MW (2x800MW, Phase II). The Consent to Establish (CTE) for Phase-I and II was issued by the CECB, Raipur on 25/08/2010 and 14.02.2025 respectively. The CTE for phase –II (2x800MW) is valid up to 14.02.2030. The Consent to Operate (CTO) renewal for existing phase-I "1x600 MW" was accorded by CECB vide lr. No. 12341/TS/CECB/2025 dated 28.03.2025, and is valid up to 31.03.2028.

33.1.4: Implementation status of the existing EC dated 20.05.2010 and 01.01.2025

S. No.	Configuration	Capacity (MW)	As per EC dated	Implementation status as on 19.11.2025	Production as per CTO/CTE
1.	Phase-I (1x600 MW)	600MW	20.05.2010 & amended on 16.04.2015, 26.11.2019, 30.07.2020	Under Operation, Since 2014	600MW
2.	Phase-II (2x800MW)	1600MW	01.01.2025	Phase-II USCTPP under construction.	1600MW

In addition to the above, status of compliance to the SO_2 emission norms as per the MoEF&CC Notification dated 11/07/2025:

i. Categorization details of TPP: "C"

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

iii. Status of SO_2 emission control facility for existing unit: SO_2 emission control facility for existing unit (1x600MW and 2x800MW) with 275m high Chimney height is in place in accordance with the MOEF&CC Notification dated 11.07.2025.

iv. Action plan for installation of new stack in compliance to the notification no. GSR 742 (E) dated the 30/08/1990 for the proposed expansion: 275 Meters Common chimney with bi-flue is proposed for 2x800 MW.

33.1.5: Environmental site settings:

S. No.	Particulars	Details	Remarks
1.	**Total Land**	Total land = 540.71 Ha (Private 531.565ha ; Govt. land 9.145 ha)	355.71 Ha land is under possession and acquisition of proposed land

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td></td><td>of 185ha is under process.</td></tr>
<tr><td>2.</td><td>Land use break up</td><td>
<table>
<tr><th>Details</th><th>Existing Area-Phase I (In Hectare)</th><th>Existing Area-Phase II (In Hectare)</th><th>Proposed Area-Phase III (In Hectares)</th></tr>
<tr><td>Main Plant</td><td>10.11</td><td>22.25</td><td>22</td></tr>
<tr><td>Coal Handling System</td><td>23.47</td><td>24.28</td><td>39</td></tr>
<tr><td>Water System</td><td>7.28</td><td>11.33</td><td>11</td></tr>
<tr><td>Switch Yard</td><td colspan="3">NIL*</td></tr>
<tr><td>Green belt</td><td>67.58</td><td>49.82</td><td>46.25</td></tr>
<tr><td>Roads</td><td colspan="3">NIL*</td></tr>
<tr><td>Ash pond</td><td>72.84</td><td>-</td><td>24</td></tr>
<tr><td>Railway Siding</td><td colspan="3">Outside plant boundary</td></tr>
<tr><td>Water supply pipeline (inside plant boundary)</td><td colspan="3">NIL*</td></tr>
<tr><td>Ash transport pipeline</td><td colspan="3">NIL*</td></tr>
<tr><td>Others (including township, plant road, boundary road, Misc., etc.)</td><td>25.49</td><td>41.26</td><td>42.75</td></tr>
<tr><td>Sub Total</td><td colspan="2">355.71 Ha</td><td>185 Ha</td></tr>
<tr><td>Total</td><td colspan="3">540.71 Ha</td></tr>
<tr><td colspan="4">* Included in Main Plant Area</td></tr>
</table>
Note: Out of a total of 540.71 Ha land, 355.71Ha of land (For existing project) are already in possession of M/s. APL. An additional 185 Ha of land required for proposed project (Phase III, 2x800MW), is currently under transfer and mutation process with the Government of Chhattisgarh.
</td><td>Land acquisition of 185 ha for proposed project (Phase-III 2x800MW) is under Process, documents shall be submitted along with EC application.</td></tr>
<tr><td>3.</td><td>Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 & 20.02.2025</td><td>The additional land of 185 ha for Phase III is under transfer and mutation with Gov. of Chhattisgarh

Existing (Phase I & II): 355.71 ha Land is already in possession.</td><td>Phase III Land Documents will be submitted along with Final EIA-EMP and EC application.</td></tr>
<tr><td>4.</td><td>Existence of habitation & involvement of R&R, if any.</td><td>Project site: Bade Bhandar, Chhote Bhandar, Kotmara, Barpali and Sarwani, Tehsil Pussore, District Raigarh, C.G.
Study Area:
<table>
<tr><th>Habitation / village</th><th>Distance (Km)</th><th>Direction</th></tr>
<tr><td>Kotmara</td><td>Adjacent</td><td>N</td></tr>
</table>
</td><td>Status of R&R: Details will be submitted along with Final EIA-</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>Barpali</td><td>Adjacent</td><td>NE</td></tr>
<tr><td>Sarvani</td><td>Adjacent</td><td>S</td></tr>
<tr><td>Jatari</td><td>1</td><td>E</td></tr>
<tr><td>Supa</td><td>1</td><td>E</td></tr>
<tr><td>Amlibhauna</td><td>2.5</td><td>S</td></tr>
<tr><td>Chandrapur</td><td>5.5</td><td>SW</td></tr>
<tr><td>Pusalda</td><td>2</td><td>E</td></tr>
<tr><td>Chikhali</td><td>3.7</td><td>NE</td></tr>
<tr><td>Balpur</td><td>3.8</td><td>SE</td></tr>
<tr><td>Bunga</td><td>4.2</td><td>SE</td></tr>
<tr><td>Ghughawa</td><td>4.2</td><td>NW</td></tr>
<tr><td>Ruchida</td><td>4.25</td><td>N</td></tr>
<tr><td>Bonda</td><td>4.9</td><td>E</td></tr>
<tr><td>Kensara</td><td>5</td><td>NE</td></tr>
</table>
Protective measures adopted are as follows:
• Dedicated plant approach roads avoiding villages.
• Covered trucks and speed control within 25 km/h Warning signage near village road junctions.
• Periodic health check-up camps in villages.
• Distribution of masks during peak construction Supply of treated drinking water
• Livelihood enhancement programs (skill training, vendor inclusion)
• Preference to local employment
• Community development under CSR
• Village-level grievance cell
• Monthly community interaction meetings
• Toll-free helpline and grievance log
• Acoustic enclosures for turbines and DG sets.
• Construction limited to daytime hours near habitations.
• Plantation buffers along plant boundary
• Zero Liquid Discharge (ZLD) policy
• Lined drains and leak-proof ash slurry pipelines
</td><td>EMP and EC application.</td></tr>
<tr><td>5.</td><td>Existence of school and hospital if any</td><td>
A. School
In project site: Nil
Study Area: As below
<table>
<tr><th>School</th><th>Distance (KM)</th><th>Direction</th></tr>
<tr><td>Govt School Amlipali Pussore</td><td>0.7</td><td>W</td></tr>
<tr><td>Govt High School Supa</td><td>0.7</td><td>E</td></tr>
<tr><td>Govt Higher Secondary School Jatri</td><td>0.6</td><td>NW</td></tr>
<tr><td>Govt PS Kotmara</td><td>1.3</td><td>N</td></tr>
<tr><td>Govt PS Shankarpali</td><td>2.3</td><td>N</td></tr>
<tr><td>Govt UPS Girls Chandrapur</td><td>4.16</td><td>SW</td></tr>
<tr><td>Govt PS Bonda</td><td>4.6</td><td>SE</td></tr>
</table>
Protective measures adopted are as follows:
• Air and Noise Control: Dust suppression, greenbelt development, and acoustic barriers will be implemented; high-noise activities will be limited to non-school hours.
• Safe Access: Signage, speed breakers, and crossing guards will be provided; heavy vehicle movement near schools will be restricted during school timings.
• Health & Awareness: Regular health camps, distribution of
</td><td></td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>masks, and environmental awareness programs will be conducted for students.
• CER & Monitoring: Support for school infrastructure and scholarships will be provided under CSR; air and noise.

B. Hospital
In project site: Nil
Within Study Area
<table>
<tr><th>Hospital</th><th>Distance (KM)</th><th>Direction</th></tr>
<tr><td>Hospital, Jatari</td><td>1.4</td><td>N</td></tr>
<tr><td>Chikhali Sub Centre</td><td>3.84</td><td>NE</td></tr>
<tr><td>Bade Bhandar Public Health Centre</td><td>0.4</td><td>E</td></tr>
<tr><td>Ruchida Sub Centre</td><td>4.56</td><td>N</td></tr>
<tr><td>Palsada Sub Centre</td><td>1.54</td><td>W</td></tr>
</table>
Protective measures adopted are as follows:
• Dust Suppression: Regular water sprinkling and fogging near access roads and work zones close to health centres.
• Greenbelt Buffer: Plantation of native species between the plant and nearest health centre to reduce air and noise impact.
• Monitoring: Third parity ambient air and noise quality within 0.5 km; data shared with local health authorities.
• Noise & Vibration Control: High-noise and vibration activities to be scheduled outside critical healthcare hours.
• CSR Support: Provision of medical equipment, emergency kits, health camps, and training to nearby health centres.
• Emergency Preparedness: Health centres will be integrated into the project's disaster response and coordination plans.</td><td></td></tr>
<tr><td>6.</td><td>Latitude and Longitude of all corners of the project site.</td><td>A. Existing Plant Site (Phase-I and II)
<table>
<tr><th>Point No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°45'07.92"N</td><td>83°16'25.37"E</td></tr>
<tr><td>2</td><td>21°45'05.19"N</td><td>83°16'42.40"E</td></tr>
<tr><td>3</td><td>21°45'04.59"N</td><td>83°16'46.64"E</td></tr>
<tr><td>4</td><td>21°44'59.76"N</td><td>83°16'54.97"E</td></tr>
<tr><td>5</td><td>21°44'47.67"N</td><td>83°17'08.40"E</td></tr>
<tr><td>6</td><td>21°44'40.52"N</td><td>83°17'06.11"E</td></tr>
<tr><td>7</td><td>21°44'29.86"N</td><td>83°17'02.82"E</td></tr>
<tr><td>8</td><td>21°44'17.40"N</td><td>83°16'59.75"E</td></tr>
<tr><td>9</td><td>21°44'09.42"N</td><td>83°17'10.55"E</td></tr>
<tr><td>10</td><td>21°44'02.09"N</td><td>83°17'03.93"E</td></tr>
<tr><td>11</td><td>21°44'03.99"N</td><td>83°16'53.96"E</td></tr>
<tr><td>12</td><td>21°43'50.43"N</td><td>83°16'49.33"E</td></tr>
<tr><td>13</td><td>21°43'44.19"N</td><td>83°16'46.05"E</td></tr>
<tr><td>14</td><td>21°43'37.64"N</td><td>83°16'38.27"E</td></tr>
<tr><td>15</td><td>21°43'50.1"N</td><td>83°16'22.98"E</td></tr>
<tr><td>16</td><td>21°43'41.32"N</td><td>83°16'20.53"E</td></tr>
<tr><td>17</td><td>21°43'49.15"N</td><td>83°16'02.52"E</td></tr>
<tr><td>18</td><td>21°44'02.77"N</td><td>83°15'54.55"E</td></tr>
<tr><td>19</td><td>21°44'21.75"N</td><td>83°15'55.35"E</td></tr>
</table></td><td></td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>20</td><td>21°44'29.30"N</td><td>83°15'59.48"E</td></tr>
<tr><td>21</td><td>21°44'46.69"N</td><td>83°16'5.021"E</td></tr>
<tr><td>22</td><td>21°44'52.46"N</td><td>83°16'21.52"E</td></tr>
</table>
B. Proposed Plant Site (Phase III)
<table>
<tr><th>Point No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°44'52.38"N</td><td>83°16'24.86"E</td></tr>
<tr><td>2</td><td>21°45'02.89"N</td><td>83°16'06.22"E</td></tr>
<tr><td>3</td><td>21°45'12.39"N</td><td>83°15'53.74"E</td></tr>
<tr><td>4</td><td>21°45'22.03"N</td><td>83°15'57.91"E</td></tr>
<tr><td>5</td><td>21°45'28.94"N</td><td>83°16'18.73"E</td></tr>
<tr><td>6</td><td>21°45'26.66"N</td><td>83°16'34.59"E</td></tr>
<tr><td>7</td><td>21°45'29.14"N</td><td>83°16'46.52"E</td></tr>
<tr><td>8</td><td>21°45'28.75"N</td><td>83°16'58.22"E</td></tr>
<tr><td>9</td><td>21°45'27.74"N</td><td>83°17'22.65"E</td></tr>
<tr><td>10</td><td>21°45'7.707"N</td><td>83°17'17.04"E</td></tr>
</table>
C. Existing pond (Phase-I and II)
<table>
<tr><th>S.No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°44'24.37"N</td><td>83°16'5.40""E</td></tr>
<tr><td>2</td><td>21°44'22.32"N</td><td>83°16'28.20"E</td></tr>
<tr><td>3</td><td>21°43'51.30"N</td><td>83°16'25.26"E</td></tr>
<tr><td>4</td><td>21°43'52.93"N</td><td>83°16'1.74"E</td></tr>
</table>
D. Proposed Ash Pond (Phase III)
<table>
<tr><th>S.No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>1</td><td>21°45′23.13"N</td><td>83°17′15.97"E</td></tr>
<tr><td>2</td><td>21°45′25.43"N</td><td>83°17′01.10"E</td></tr>
<tr><td>3</td><td>21°45′14.88"N</td><td>83°16′59.64"E</td></tr>
<tr><td>4</td><td>21°45′10.97"N</td><td>83°17′12.60"E</td></tr>
</table>
</td><td></td></tr>
<tr><td>7.</td><td>Elevation of the project site</td><td>• Average site elevation is 226 m AMSL</td><td>--</td></tr>
<tr><td>8.</td><td>Involvement of Forest land, if any.</td><td>No forest land is involved in the existing and proposed project.</td><td>--</td></tr>
<tr><td>9.</td><td>Water body (Rivers, Lakes, Pond, Nallah, Natural Drainage, Canal etc.) exists within the project site as well as study area</td><td>Project Site: NA

Study area:
<table>
<tr><th>S. No.</th><th>Water body</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td>1</td><td>Mand River</td><td>1.7</td><td>W</td></tr>
<tr><td>2</td><td>Kutari Nala</td><td>5.2</td><td>SW</td></tr>
<tr><td>3</td><td>Mahanadi River</td><td>5.6</td><td>S</td></tr>
<tr><td>4</td><td>Kantang Nala</td><td>7.8</td><td>S</td></tr>
<tr><td>5</td><td>Lath Nala</td><td>7.5</td><td>SW</td></tr>
<tr><td>6</td><td>Kamrel Nala</td><td>7</td><td>NW</td></tr>
<tr><td colspan="4">*Source: - with respect to S.O.I. Toposheet (w.r.t project).</td></tr>
</table></td><td>HFL of Mand River is 200.43m; Distance 1.4 KM</td></tr>
<tr><td>10.</td><td>Archaeological sites monuments/ historical temples etc.</td><td>There are no Archeological Sites present within the study area.</td><td>--</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>11.</td><td>Existence of ESZ/ ESA/ national park/wildlife sanctuary/biosphere reserve/ tiger reserve/elephant Reserve etc. if any within the study area.</td><td><u>Study area</u>
Name of the ESZ/ESA: Gomarda Wildlife Sanctuary
Status of Notification: Draft Notification issued on 19/02/2016
Distance of project from ESZ boundary: ESZ boundary of Gomarda Wildlife Sanctuary is about 8 Km and project site is located at a distance of 14.9 Km from the Gomarda Wildlife Sanctuary.
Authenticated map of ESZ projecting distance of ESZ from project site: Will be submitted with EC application
Status of NBWL approval: Not required as the project site more than 10 km distance from the Gomarda Wildlife Sanctuary in terms of the MoEF&CC OM dated 17/05/2022.
List of Reserved and protected forests:
<table><tr><th>S. No.</th><th>Particulars (RF/PF)</th><th>Distance (km)</th><th>Direction</th></tr><tr><td>1</td><td>Damka PF</td><td>5.4</td><td>SW</td></tr><tr><td>2</td><td>Devtongri PF</td><td>10</td><td>SW</td></tr></table>
No National Park, Elephant/Tiger Reserve, or migratory routes/wildlife corridor exists within 10 km of the proposed TPP. The proposed project does not fall in any Wildlife Corridor.</td><td></td></tr>
<tr><td>12.</td><td>Facility envisaged in CRZ area (Only for coastal power plant)</td><td>Recommendations of CZMA – Not Applicable

Status of CRZ clearance – Not Applicable</td><td></td></tr>
<tr><td>13.</td><td>Involvement of Critically Polluted Area/Severely Polluted area as per 2018 CEPI score</td><td>Involvement of CPA/SPA: - Not Applicable

Proximity to CPA/SPA: - Not Applicable (The nearest CPA is Siltara industrial area which is ~170 km from project boundary in SW Direction)</td><td></td></tr>
</table>

33.1.6: The unit configuration and capacity of existing and proposed project is given as below:

S. No.	Existing power plant configuration and capacity	Proposed power plant configuration and capacity	Total	Technology adopted
1	600 (1x600) MW Sub- Critical – Operational	1600 (2x800) MW Ultra Super Critical	3800 (600+1600+1600) MW	Sub-Critical & Ultra Super Critical
2	1600 (2x800) MW Ultra Super Critical – Under Construction			

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

Existing / proposed Units	Details of Fuel and Requirement (in MTPA)	Source	Distance from site (km)	Mode of Transportation	Coal characteristics (Worst case scenario)	Linkage document

Existing / proposed Units	Details of Fuel and Requirement (in MTPA)	Source	Distance from site (km)	Mode of Transportation	Coal characteristics (Worst case scenario)	Linkage document
Existing TPP (Phase I, 1x600MW)	**Domestic Coal**, 3.25 MTPA	SECL, MCL .	About 110 (Rail 85 km & Road 25 km)	Rail & Road	Ash – < 4 0 (%) Sulphur - <0.5 (%) Moisture – 13 (%) GCV- 3065 Kcal/Kg	Through e-auction.
Existing TPP (Phase II-Under Construction, 2x800MW)	**Domestic Coal,** 6.6 MTPA	Bijahan coal mine and e-auction	About 25-55 km	Rail	Ash- <4 0 (%) Sulphur- <0.5 (%) Moisture- 13 (%) GCV – 3200-4300 Kcal/Kg	Fuel Supply Agreement (FSA) & e-auction.
Proposed TPP (Phase III, 2x800MW)	**Domestic Coal**, 7.67 MTPA	Nearby Commercial Coal Mine SECL/CCL/NCL & e-auction	About 60 km - 300 km	Rail	Ash- <4 0 (%) Sulphur- <0.5 (%) Moisture- 13 (%) GCV – 3200-4300 Kcal/Kg	FSA under Shakti Policy & e-auction.

**** MTPA – Million Ton Per Annum***

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

Existing / proposed Units	Details of Fuel and Requirement (in KL/annum)	Source	Distance from site (km)	Mode of Transportation	LDO Characteristics	Linkage document
Operational (Phase I 1x600MW)	2500 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors
Under Construction (Phase II, 2x800MW)	8000 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors
Proposed (Phase III, 2x800MW)	8000 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors

33.1.8: Water requirement: Existing Water requirement is 137091 m^3/day (41095 m^3/day Phase I + 95996 m^3/day Phase II) obtained from Mahanadi River and the permission for the same has been obtained from WRD vide letter no IN-CG20016765166330T date 23/02/2021 and Lr. No. क्रमांक / 299/ एसआईपीबी/2021/239 dated 15.03.2024. The water requirement for the proposed project is estimated as 87,672 m^3 /day (32 MCM per annum) which will be obtained from the Mahanadi River. The application for drawl of surface water is submitted to WRD, Govt. of Chhattisgarh Vide lr.no. क्रमांक / 299/ एसआईपीबी/2025/772 dated 23.09.2025. The water will be transported to the plant site through dedicated pipeline. The specific water consumption for the power plant will be < 2.5.0 m^3/MWhr.

33.1.9: Power requirement: The power requirement for the existing project is estimated as 194MW (50+144 MW), which will be obtained from own generation. The power requirement for the proposed project is estimated as 96 MW, which will be obtained from existing operational TPP.

33.1.10: 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.	Municipal Solid Waste (Biodegradable and Non-biodegradable)	Plant Canteen	50	Collected; segregated using color coded waste bin, Organic waste converters (OWC); No biodegradable collected and segregated	Inorganic will be disposed via local municipal authorized vendor & Organic/ Biodegradable waste by OWC. Non-biodegradable by Registered Recycler vendor
2.	E-waste	IT & Telecom Equipment	3.1	Collected; segregated	Registered Recycler vendor
3.	Battery waste from UPS	Automotive & Industrial	6.1	Collected; segregated	Authorized Vendor
4.	Bio medical waste	First aid center	0.1	Collected; segregated	Authorized vendor
5.	Hazardous Waste	Plant Operation	Used/ Spent Oil – 60 KL Waste or residues Empty Barrels/Containers/ Contaminated Liners – 11 TPA contaminated cotton – 3.0	-	Registered Recyclers/Pre-processors with SPCB & Authorized Recyclers

33.1.11: Cost of project: The capital cost of the existing project is Rs. 16,500 Crore (for Phase I – Rs. 2900 Cr. & Phase II – Rs. 13617 Cr.). The capital cost of the proposed project (Phase III) is Rs 15,792 Crores. The capital cost for environmental protection measures is proposed as Rs 1,324 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 13 Crores. The employment generation from the proposed expansion project is 6230 (230 - permanent + 6000 -contractual) and 1772 (272 permanent + 1500 Contractual) during construction and Operation phase respectively.

33.1.12: Green belt development: Existing green belt has been developed in 117.4 ha [Phase I – 67.58 Ha + Phase II – 49.82 Ha (Under Construction)] area which is about 33 % of the total project area of 355.71 ha with total sapling of 2,93,500 Trees [Phase I – 1,68,950 nos + Phase II – 1,24,550 nos (Plantation will be developed along with plant construction)]. Proposed greenbelt will be developed in 46.25 ha which is about 25 % of the total project area of 185 ha. Thus total 163.65 ha area will be developed as greenbelt. A 20m wide greenbelt, consisting of thick 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 1,15,625 saplings will be planted and nurtured in 46.25 hectares in 10 years.

33.1.13: Ash management: Ash management for the last three years (generated from existing 1x600MW unit):

Year	Quantity generated (MT)	Quantity utilized (MT)	% of utilization	Balance quantity (MTP)	No of storage silos with capacity
2022-23	1246303	1197979	96.10	48324	Silo 1- 1000 MT Silo 2- 2500 MT
2023-24	1282149	1121897	87.50	160252	
2024-25	1306725	1309512	100.21	-	

A. Fly ash details for last three years= 27, 60,862 TPA (2.76 Million MT)

Sl. No.	Activity (as applicable)	Quantity (TPA)	Percentage	Prior approval of SPCB details to be mentioned
1.	Fly ash based products (bricks or blocks or tiles or fiber cement sheets or pipes or boards or panels)	6,329	0.23	---
2.	Cement manufacturing	14,861	0.54	
3.	Filling up of low lying area	16,62,843	60.23	NOC from SPCB
4.	Filling of mine voids	10,76,829	39.00	NOC from SPCB
	Total	**27,60,862**	**100**	

B. Bottom ash details for last three years = 8, 68, 526 TPA (0.87 Million MT)

S. No.	Activity (as applicable)	Quantity (TPA)	Percentage	Remarks / (Prior approval of SPCB details to be mentioned)
1.	Fly ash based products (bricks or blocks or tiles or fiber cement sheets or pipes or boards or panels)	10,000	1.15	
2.	Filling up of low lying area	3,96,472	45.65	NOC from SPCB
3.	Filling of mine voids	4,62,054	53.20	NOC from SPCB
	Total	**8,68,526**	**100**	

C. Legacy ash details: Not applicable

D. Proposed ash utilization plan for expansion project:

Details	Existing Ash generation	Proposed Ash generation in MTPA	Total	Utilization (MT	% of utilization	Balance quantity of Ash (MTPA	No. of storage silos with capacity in MT

				PA)		**)**	
Ash (Fly & Bottom)	Phase-I 1.282 MTPA	Phase-II, 2.356; Phase-III, 3.07	6.708 MTPA	6.708 MTPA	100	0	Phase I: Silo 1-1000MT & Silo 2-2500 MT; Phase II: Silo 4x2500 MT; Phase III: Silo 4x2500 MT

**MTPA: Million Ton Per Annum*

** Proposed ash generation calculated considering 85% PLF and worst coal scenario. Avg Ash% about 40%.*

Existing ash pond details: Existing ash pond details are given below:

S. No.	Details of Ash pond	Ash pond
1.	**Status of ash pond -**Active /Exhausted (yet to be reclaimed)/ Recl aimed)	Active
2.	Area (Ha)	72.84
3.	Dyke height (m)	12.0
4.	Volume (m^3)	84.51 Lakh m3
5.	Quantity of ash to be disposed (MillionTons)	2.355
6.	Expected life of ash pond (number of years and months)	15 yrs. Considering Oct ober'2024 (Capacity/life of ash dyke calculated in worst scenario for 25 years)
7.	Type lining carried in ash pond: HDPE lining of LDPE lining or clay lining or No lining	HDPE
8.	Mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD).	Wet slurry (HCSD for Fly ash and LCSD for Bottom Ash)
9.	Ratio of ash: water in slurry mix (1:___):	65:35
10.	Ash water recycling system (AWRS): Yes or No	Yes
11.	Quantity of wastewater from ash pond to be discharged into land or water body (m^3)	Nil
12.	Last date when the dyke stability study was conducted and name of the organization who conducted the study:	19th June 2024, NIT, Rourkela
13	Last date when the audit was conducted and name of the organization who conducted the audit:	01.10.2023, NIT Delhi

Proposed Ash Pond details- APL has proposed an ash pond, details of which are given below:

S. No.	Details of Ash pond	Ash pond
1.	Area (Ha)	24
2.	Dyke height (m)	12.0
3.	Volume (m^3)	29.13 Lakh m^3
4.	Quantity of ash to be disposed (Metric Tons)	32,04,300
5.	Expected life of ash pond (number of years and months)	15 years Considering October'2030 (Capacity/life of ash dyke calculated in worst scenario for 25 years)
6.	Type lining carried in ash pond: HDPE lining of LDPE lining or clay lining or No lining	HDPE
7.	Mode of disposal: Dry disposal or wet slurry (in case of wet	Wet slurry (HCSD for Fly ash

S. No.	Details of Ash pond	Ash pond
	slurry please specify whether HCSD or MCSD or LCSD).	and LCSD for Bottom Ash)
8.	Ratio of ash: water in slurry mix (1:___):	65:35
9.	Ash water recycling system (AWRS): Yes or No	Yes
10.	Quantity of wastewater from ash pond to be discharged into land or water body (m^3)	Nil

33.1.14 Baseline data collection: Base line data collection is being collected for the period October 2025 to December 2025.

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

A. Summary of court cases: There are no court case related to environment. However, the 8 cases related to land matters which are summarized as below:

S. No	Case No/ Title	Name of the Court	Brief summary of the case	Last date of hearing	Next date of hearing	Direction/ Action taken by the PP
1.	WPC/2829/2025	High Court	A Writ Petition has been filed to stop the construction of a railway side road/bridge in Kurmapali village, claiming it is being built illegally on disputed land without the petitioner's consent or approval from PWD or Railway authorities. The construction is affecting access to the petitioner's petrol pump, causing business losses, and is allegedly using poor-quality materials. The petitioner seeks a stay on work and an investigation into the matter.	18.07.2025	Awaited	We are in receipt of the Petition on 06.10.2025. Reply to be filed by APL in Nov 2025 as the Next Date is not given by HC. NOC from PWD and Railway received.
2.	WPC/709/2025	High Court	The petitioner claims that several plots of land, including Survey Nos. 14/1/K/1, 6/1K, 14/1/Kh/1, 14/1/Kh/2, 6/1Kh, and 6/2Kh, have been marked for acquisition without following the legal procedures under the Land Acquisition Act, 2013. The petitioner has already raised objections under Section 11 of the Act and now seeks the Hon'ble Court's direction for the District Collector, SDO, and Tehsildar to ensure proper compliance with the mandatory provisions of the law.	17.10.2025	Awaited	Reply to be filed by CSIDC as APL is not a Party in this case. APL is a beneficiary only.
3.	6/ B-105(3)/ 2016-17	Addl. Commissioner	Tikaram, son of Mahattar, filed a case regarding Survey No. 218/1 (area 0.817 hectares), claiming that KWPCL illegally took possession of his land	24.10.2025	19.12.2025	Addl. Comm. asked for Land Record based on appeal.

S. No	Case No/ Title	Name of the Court	Brief summary of the case	Last date of hearing	Next date of hearing	Direction/ Action taken by the PP
			without proper compensation. He suffered damage due to the encroachment, including the loss of 149 trees and farming activities on the land. He has requested the return of possession and fair compensation for the losses.			
4.	A.P./A-6/2017-18	Addl. Commissioner	Kulkitdas is claiming ownership on land sold Kh 275/6 area 0.282 hect. of village- Shankarpali. Appeal case filed against SDM court case no. 95/ A-6/2016- 17 & Nayab tahsildar Pussour court case no. 341/ A-6/ 2015-16. Case filed by Kulkitdas against his daughter Lata & KWPCL. KWPCL purchased land from Mrs. Lata through sale deed on 05.07.2016. Petitioner has claimed the ownership on sold land Kh 275/6 area 0.282 hect of village- Shankarpali.	24.10.2025	22.01.2026	Addl. Comm. asked for Land Record based on appeal.
5.	A/84/2025	District Court	A civil suit has been filed to stop the construction of a railway side road/bridge in Kurmapali village. The plaintiff claims that the work began on 22.04.2025 using heavy machinery and labourers, without any notice or permission, and in violation of road construction rules. The construction is blocking access to the plaintiff's petrol pump and harming their business operations.	15.10.2025	12.11.2025	Arguments were made by both the Parties on 39(12). It is Listed for Order on 39(12)
6.	CS/72A/2020	District Court	Arjun Nishad has filed an appeal to get back possession of land that was earlier sold by his mother to a company. He claims that the company took over the land unfairly and is now requesting the court to return the land to him.	07.08.2025	22.11.2025	APL has filed their application in an Appeal and now it is pending for Reply from Applicant's Side.
7.	CS/12A/2012	District Court	Chandrashekhar has filed a case claiming ownership of land with Khata No. 155/8 in Chhote Bhandar village. They allege that M/s KWPCL is threatening to vacate the land and forcibly demolish their house, and they are seeking protection of their property through the court.	15.10.2025	28.11.2025	Final Argument in Counter Appeal Filed by APL

S. No	Case No/ Title	Name of the Court	Brief summary of the case	Last date of hearing	Next date of hearing	Direction/ Action taken by the PP
8.	CS/130 A/2024	District Court	Heeradhan has filed a suit against APL in the District Court, claiming ownership of land with Survey No. 222 in Village Shankarpali. According to the petitioner, APL is pressuring them to withdraw their claim, saying the land belongs to the government. However, the petitioner states that the land was originally barren and has been cultivated by their ancestors for over 100 years, which is why they believe they have rightful ownership.	15.10.2025	21.11.2025	WS has been filed on the LDOH by APL, now it is listed for argument

B. **Summary of Show Cause Notices (SCN):** A show cause notice was issued to the project "Coal based TPP 600MW (1X600MW) at villages Bade Bhandar, Chote Bhandar, Sarwani & Amali Bhona in Raigarh, Chhattisgarh by M/s Adani power Ltd." by the MoEF&CC on 31.07.2025 for not complying with the existing EC condition obtained for 600 MW TPP. The action closue letter on the same is yet to be obtained by the proponent.

S. No	Issuing authority	Date	Reasons for issuance of SCN	Status of reply submission	Present status
1	MoEFCC	31.07.2025	Partially complied and non-complied condition in CCR	ATR has already submitted	Action closue letter on the same is yet to be obtained by the proponent

The Project Proponent (PP) has already submitted a detailed reply to MoEF&CC against the SCN vide letter dated 22.08.2022. The point-wise compliance status and clarifications furnished by the PP in response to the issues raised in the Show Cause Notice are presented in the table below.

Sr. No.	Specific Condition/ general condition of EC	Non- compliance EC condition as per issued letter dated 31.07.2025 from MoEF&CC	Compliance status/clarification submitted by PP
i	Detailed hydro-geological study shall be conducted and submitted within six months from an institute/ organization of reput to assess impact of surtace water regime. Specific mitigation measures shall be spelt out and action plan for implementation of the same shall be provided. It shall be ensured that the area drainage is not disturbed due to the proposed power plant **(Specific condition- i)**	PP has not submitted any documents regarding submission of the hydrological study report within 6 month along with specific mitigation measures and action plan for its implementation to the Ministry. (Specific Condition Of EC dated 20.05.2010)	**Complied.** The hydro-geological study was initially conducted by JM Environet (P) Limited. The report was submitted to CGWA, CECB and MoEFCC on dated 06.12.2010. Subsequently studies were carried out by NIT, Roorkee & Water Solution Pvt. Ltd., report already submitted along with the Six-Monthly EC Compliance Report. A Copy of report is enclosed as Annexures I. In May 2024, a further study was conducted by Akshar Geo Services and same vetted by NIT Delhi. The Vetted

Sr. No.	Specific Condition/ general condition of EC	Non- compliance EC condition as per issued letter dated 31.07.2025 from MoEF&CC	Compliance status/clarification submitted by PP
			Hydrogeological Report, including mitigation Measures and an action plan, has already been submitted in ATR. The Certified EC compliance report dated: 15.03.2013 has been submitted.
ii	Utilisation of 100% Fly: Ash generated shall be made from 4th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time. **(Specific condition- xiii)**	100% fly ash utilization has not been achieved and ash dyke height has been increased in spite of claiming nearly 96% utilization of fly ash. In reference to this following major non-compliance status has also not been clarified. A. approval copy from state pollution control, Chhattisgarh and intimation letter submitted to Ministry for raising the ash dyke has not been submitted. B. latest dyke stability report has not been submitted.	**Being Complied.** As per the Fly Ash Notification 31.12.2021, Raigarh TPP has achieved 37% ash utilization in the FY 2021-22, which comes under the <60% utilization category. Therefore, the notification mandates achieving 100% Ash utilization within a five-year compliance cycle, ending on 31st March 2027. A. The strengthening of Ash Dyke bund has been done with mixing of Ash, Soil and sand as standard practice. B. Ash dyke stability study has already been conducted by NIT Rourkela and report is submitted.
iii	A good action plan for R&R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months form the date of issue of this letter. **(Specific condition- xx)**	Details of the number of PAP attracted under R&R and the R&R implementation status/awards passed has not been submitted.	**Complied.** R&R has been complied and all the payments made as per the demand received from the state government & local administration in 2011-2012 as per R&R and agreement policy by previous company. APL Raigarh acquired Korba West Power Company Ltd. (KWPCL) through NCLT on 20.07.2019.
iv	An amount of Rs 6.0 Crores shall be specially earmarked for development activities for tribals of the nearby villages as committed by the project proponent vide its letter dated 23.03,2010. Specific schemes for: upliftment of tribal families mentioning sustainable livelihood schemes shall be submitted to the Ministry within three months with time bound implementation and in-built monitoring programme. The above amount shall be over and above the fund earmarked for CSR activities. **(Specific condition- xxi)**	Details has not been submitted regarding an amount of Rs. 6.0 Crores earmarked for development activities for tribals of the nearby villages as committed by the project proponent vide its letter dated 23.03.2010 and its submission to the ministry within three months with time bound implementation and in built monitoring.	**Complied.** We have adopted the nearby villages namely Bade Bhandar, Chhote Bhandar, Amlibhona sand Sarvani to provide & develop all basic amenities. The Certified EC compliance report dated: 15.03.2013 is submitted. A letter to the Collector Raigarh on development work in above-mentioned villages on dated 02.02.2010 is submitted.
v	Further an amount of Rs. 15.0 Crores shall be earmarked as	PP has not complied with the CSR activities as per	Raigarh TPP was sick and financially stressed since commissioning (2014),

Sr. No.	Specific Condition/ general condition of EC	Non- compliance EC condition as per issued letter dated 31.07.2025 from MoEF&CC	Compliance status/clarification submitted by PP
	one time capital cost for CSR programme as committed by the project proponent vide its letter dated 23.03.2010. Subsequently, a recurring expenditure of Rs. 3.0 Crores per annum Shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation. **(Specific condition- xxi)**	the EC conditions.	due to CSR activities were not commenced. Previous company had informed Collector Raigarh vide letter dated 27/06/2017 towards their inability to undertake CSR activity and same was submitted to MoEFCC along with Six-monthly EC Compliance status report. However, prior to financially sick / stresses. Company has undertaken CSR activities in consultation with local authority (Panchayats) during the Construction phase and INR 16.05 Crores was spent during the period of FY 2010-2013. Copy of year wise expenditures details submitted to District Collector on dated: 14.01.2023 is submitted. The company was acquired by APL through NCLT in 2019, the CSR activities are being carried out through Adani Foundation in the vicinity of TPP, focus sector viz.: 1. Infrastructure development in the villages, 2. Livelihood Enhancement and training, 3. Education, 4. Community Health and Promotion of Sports and Culture. Expenditure incurred for CSR activities in the last 3 years is submitted.
vi	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time- to time. **(Specific condition- xxiv)**	Neither monitoring report has been submitted nor any amendment to the condition have been provided regarding in-built continuous monitoring mechanism for radioactivity and heavy metals in coal and fly ash (including bottom ash).	**Being Complied.** Radioactive analysis is being carried out regularly by board of radiation and isotope Technology of Atomic Energy Govt. of India. Copy of report is submitted. For provision of in-built mechanism for Continuous monitoring for radioactivity and heavy metals in coal and fly ash (including bottom ash), the technology and monitoring instruments are not available with the suppliers in the Country and is also technically not feasible to monitor in this mechanism. The application for EC amendment has been submitted and under process.
vii	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional	SO2 and NOx values exceeded the standard specified.	**Being Complied.** Particulate Matter Emission (PM) are being maintained well within 50mg/Nm³. NOx emissions are being maintained with prescribed limit/standards 450 mg/Nm³ With periodic maintenance of Pollution Control Equipment's As per the MoEFCC notification dated 11.07.2025, Raigarh TPP falls under

Sr. No.	Specific Condition/ general condition of EC	Non- compliance EC condition as per issued letter dated 31.07.2025 from MoEF&CC	Compliance status/clarification submitted by PP
	Office of MOEF, the respective Zonal Office of CPCB and the SPCB, The criteria pollutant levels namely: SPM, RSPM (PM2,5 & PM10), SO2, NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain. **(General condition- xv)**		Category C TPP, therefore, the Sulphur dioxide emission is not applicable, as the stack height criteria of 275m already fulfilled.
viii	The environment statement for each financial year ending 31st March in Form V as is mandated to be submitted by the project proponent to the concerned SPCB as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, Shall also be put on the website of the company along with the status of compliance of environmental clearance condition and shall also be sent to the respective Regional Offices, of the Ministry by e-mail. **(General condition- xvi)**	Environment statement has not been uploaded on the website.	**Complied.** Environment Statement is being uploaded on regular basis on company website www.adanipower.com along with Six Monthly EC Compliance report. However, Environment Statements has been uploaded on the website of the Company in a separate folder. Screenshot of same is submitted.
ix	The project authorities shall inform the Regional Office regarding the, date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant. **(General condition- xx)**	Details of the financial closure and final approval of the project has not been submitted.	**Complied.** Financial Closure achieved by previous organization M/s Korba West Power Company Limited (KWPCL) on 04.08.2009. Copy of Completion of financial closure is submitted.
x	The coal shall be transported on road through mechanically covered trucks. **Specific condition-i of EC dated 16.04.2015)**	Neither is the coal being transported on road through mechanically covered trucks nor has any amendment of the condition been provided.	**Being Complied.** As per MoEF&CC S.O 1561(E) dated 21.05.2020, road transportation of coal through trucks with covered tarpaulin. MoEF&CC issued a clarification vide OM dated covered transportation of coal by truck are an interim arrangement till establishment of railway/conveyor belt facility and existing EC stands modified and need not approach MoEF&CC to seek temporary permission.
xi	Avenue plantation of 2/3 rows all along the road for transportation of coal shall be	Details of the avenue plantation has not been provided.	Greenbelt / plantation is being developed more than 33% of total plant area. Presently coal is being transported from

Sr. No.	Specific Condition/ general condition of EC	Non- compliance EC condition as per issued letter dated 31.07.2025 from MoEF&CC	Compliance status/clarification submitted by PP
	carried out by the project proponent at its own expenses in consultation with the State Government Authorities. **Specific condition-ii of EC dated 16.04.2015)**		Vimla Siding NEAR Bhupdeopur Railway Station by NH 200/153 & SH 49. Joint inspection of the coal transportation route has been carried out by Van Vikas Nigam (Gov. Chhatitisgarh). The proposal is under process. Copy of letter is submitted with annexure. Construction of the Rail facilities for coal transportation is under progress and expected to be complected by December 2026.

C. **Summary of violation:** There is no violation cases under the Environmental Protection Act, 1986, Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and the Wildlife (Protection) Act, 1972.

Observations and deliberation of the EAC

33.1.16: The Committee observed and noted the following:

i. Instant proposal is for Expansion of existing power plant Phase-I (1x600MW) & phase-II (2x800MW) by adding two units of 800 MW Ultra Super Critical TPP under Phase-III (2x800 MW) by M/s Adani Power Limited located at Villages Chhote & Bade Bhandar, Barpali, Kotmara and Sarwani, Tehsil Pussore, District Raigarh, Chhattisgarh.

ii. The existing project "1X600MW Phase-I coal based thermal power project" was accorded environmental clearance vide lr.no. J-13012/57/2008·IA.II (T) dated 20.05.2010 and subsequent amended on 16.04.2015, 26.11.2019 and 30.07.2020. The EC was transferred from M/s KWPCL to M/s REGL on 22.10.2019, and thereafter from M/s REGL to M/s APL on 24.04.2023. Additionally, USCTPP 1600 MW (2x800 MW, Phase II under construction) was accorded EC by MoEF&CC vide lr. no. J-13012/57/2008.IA.II (T) dated 01.01.2025. The Consent to Established (CTE) for Phase-I and II was granted by the Chhattisgarh Environment Conservation Board, Raipur, vide lr. no. 2903/TS/CECB/2010 dated 25/08/2010 and vide lr. no 10731/TS/CECB/2025, dated 14.02.2025, respectively. The CTE for Phase-II (2x800MW) is remains valid up to 14.02.2030 while CTO for phase-I (1x600MW) is valid up to 31.03.2028.

iii. Out of total 540.17 Ha. the existing Phase-I and Phase-II power projects are established over 355.7 Ha. The proposed Phase-III USCTPP is planned to be developed on 185 Ha. of land, which is to be acquired from the Government of Chhattisgarh through the land transfer and mutation process.

iv. 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.

v. EAC observed that the villages Kotmara, Barapali, and Sarwani are located in close proximity to the proposed project site, including the proposed ash-handling plant

facility. Accordingly, the Committee recommended that a detailed impact and risk assessment study be carried out by a nationally recognized or reputed institute/organization.

vi. No forest land is involved in the existing (Phase-I and Phase-II) and proposed (Phase-III) project.

vii. There are no National Parks, Biosphere Reserves, or notified Tiger/Elephant Corridors within a 10 km. radius of the project site.

viii. The Mand River is located at a distance of approximately 1.7 km from the project boundary. The authenticated High Flood Level (HFL) data of the river, as required under MoEF&CC O.M. dated 14.02.2022, shall be furnished accordingly.

ix. The existing water requirement for the existing project is 137091 m^3/day (41095 m^3/day, Phase I + 95996 m^3/day, phase-II) and permission for water withdrawn from Mahanadi rivers has been obtained from Water Resources Department WRD vide letter dated 23/02/2021 and 15.03.2024. The estimated water requirement for the proposed (Phase-III) project is 87,672 m^3 /day (32 MCM per annum) which will also be sourced from the Mahanadi River. The application for drawl of surface water has been submitted to WRD, Govt. of Chhattisgarh, vide letter dated 23.09.2025. Water will be transported to the plant site through a dedicated pipeline, and the specific water consumption for the power plant will be maintained by <2.5.0 m^3/MWhr.

x. The existing (Phase-I & II) power requirement is estimated as 194 MW (Phase-I: 50 MW; Phase-II: 144 MW), and power requirement for the proposed project is estimated as 96 MW, which will be obtained from existing operational TPP.

xi. The capital cost of existing project is Rs 16,500 Crore (for Phase I – Rs. 2900 Cr. & Phase II – Rs. 13617 Cr.). The capital cost of the proposed project (Phase III) is Rs 15,792 Crores and the capital cost for environmental protection measures is proposed as Rs 1,324. Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 13 Crores.

xii. The Coal requirement for Phase-III of the project is estimated at approximately 7.67 MTPA, assuming 100% PLF and a Gross Calorific Value (GCV) of 3200-4300 Kcal/Kg. Coal for Phase-III will be sourced from nearby commercial coal mines under SECL/CCL/NCL as per Fuel supply agreement (FSA) under Shakti policy & e-auction.

xiii. Existing green belt has been developed in 117.4 Ha [Phase I – 67.58 Ha. + Phase II – 49.82 Ha. (Under Construction)] area which is about 33 % of the total project area of 355.71 ha with total sapling of 2,93,500 Trees [Phase I – 1,68,950 nos. + Phase II – 1,24,550 no. (Plantation will be developed along with plant construction)]. Proposed greenbelt will be developed in 46.25 Ha which is about 25 % of the total project area of 185 Ha. Thus total 163.65 Ha area will be developed as greenbelt. A 20 m. wide greenbelt, consisting of thick 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 1,15,625 saplings will be planted and nurtured in 46.25 hectares in 10 years. The Committee noted that the total power generation capacity is increasing from 2,200 MW to 3,800 MW, which will result in higher pollution load within the 540.17 Ha project area. The proposed greenbelt for Phase-III is considered insufficient to mitigate the increased pollution load. Therefore, the Committee recommended to explore the additional land outside the project site, including areas along surrounding roads, for supplementary greenbelt development. Further, committee suggested to

fulfill the Greenbelt development within two years.

xiv. Schools are located at distance ranging from 0.78 Km to 2.3 Km from the plant boundary, while health centers are situated 0.4 km to 4.56 km away. Therefore, the committee suggested for adequate mitigation measures. EAC suggested for development of a dense greenbelt comprising native and pollution-tolerant species around the plant boundary. Additionally, windshield curtains and dust containment structures will be installed at coal and ash handling areas to minimize particulate dispersion toward nearby habitations.

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

xvi. The Committee reviewed the existing ash management practices and noted that the ash utilization for FY 2024-25 was 100.21%. For the proposed Phase-III units, the estimated ash generation is 3.07 Million Tones per Annum (MTPA), which is planned to be 100% utilized. Additionally, a new ash pond of 24 Ha is envisaged for the Phase-III project.

xvii. Zero liquid discharge (ZLD) will be adopted for the proposed plant using suitable effluent treatment plant, sludge thickener and RO systems.

xviii. EAC deliberated on construction of stack height and observed that stack height of Phase II and phase-III chimney would be 275 m. without FGD as per the provisions contained under Notification no GSR 465 (E) dated 11/07/2025.

xix. PP has proposed Selective Catalytic Reduction (SCR) and Separated Over Fire Air (SOFA) technologies to meet stringent NOx emission norms in phase-III TPP project.

xx. The committee suggested to calculate total carbon emission and sequestration in the proposed plant and the same shall be mentioned in the EIA/EMP report.

xxi. EAC suggested for conducting the detail water quality, biodiversity and ecosystem service study within buffer zone (within 10 km) of project site and the same shall be submitted with EIA/EMP reports.

xxii. EAC noted that the baseline data for the period of October 2025 to December 2025 shall be submitted during EC proposal.

xxiii. The committee deliberated the status of Show Cause Notice (CSN) issued by the MoEF&CC dated 31.07.2025. The committee noted that the PP has submitted the reply of the SCN vide letter dated 22.08.2025 and the acion closure on the same is yet to be obtained. Committed opined that the project proponent shall comply with the outcome of the SCN and submit a closure letter of SCN along with the final EIA/EMP report.

xxiv. The committee noted that there are 8-court case related with TPP by M/s Adani Power limited, however, no court case is related with Environment.

xxv. 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 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:

33.1.17: The EAC after detailed deliberations on the information submitted and as presented

during the meeting ***recommended*** the proposal for grant of ToR for conducting an EIA study for the above project subject stipulation of the following specific ToR in addition to the generic ToRs.

Specific ToR:

[A] Environmental Management and Biodiversity Conservation

i. A Cumulative Environmental Impact Assessment study of all the existing and proposed projects in the 10-km radius of the proposed project shall be conducted and the same shall be included in the EIA/EMP report. Details of industrial units present in 10 Km radius of the power plant shall be earmarked in map and submitted.

ii. Certified compliance report containing compliance to the prescribed EC conditions for the 1x600 MW (Phase I) and 2x800MW (Phase II) as per the MoEF&CC, O.M. dated 08/06/2022, shall be submitted.

iii. Project Proponent shall explore the feasibility of using water from coal mine void and treated sewage from Sewage Treatment Plants located within 50 km radius of the proposed project as an alternative to the fresh water source to minimize the freshwater drawl from surface water bodies. Action plan in this regard shall be submitted.

iv. Project proponent shall explore the feasibility of using air cooled condenser in place of water-cooled condenser and details shall be incorporated in the final EIA/EMP report.

v. Certificate from concerned District Magistrate/Executive Engineer from the State Water Resources department (or) any officer authorized by the State Government in this regard shall be submitted stating that project site is not located within flood plain corresponding to one in 25 years of flood as per Ministry's O.M. dated 14/02/2022.

vi. PP needs to submit NOC/permission from the State Water Resource Department/Irrigation Dept. in case of diversion of any Nala/Stream/water bodies.

vii. All the parameters as mentioned in the National Ambient Air Quality Standards (NAAQS) shall be monitored by the project proponent.

viii. Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests if any, along with the mitigation measures to be followed.

ix. EIA/EMP study shall take into consideration the different scenarios arising due to all existing, under construction and upcomimg TPP in premises, change of coal source, impact on environmental attributes due to change of coal source along with corresponding mitigation measures with EMP budget shall be submitted.

x. Biodiversity analysis of the project site and study area shall be done through any NABET accredited consultant. The study report shall inter-alia include impact of release of cooling tower water on aquatic life and action plan for complying with the mitigation measures shall be submitted.

xi. Project proponent shall commission a study on Hydrology and Hydrogeology of the project site as well as the study area of the project site through a NABET accredited consultant. The study report along with the action plan for implementing the recommendations of the report shall be submitted along with the EIA/EMP report.

xii. Radioactivity studies along with coal analysis to be provided (sulphur, ash percentage and heavy metals including Pb, Cr, As and Hg). Details of auxiliary fuel, if any including its quantity, quality, storage, etc should also be given.

xiii. PP should submit the detailed plan in tabular format (year-wise) for concurrent afforestation and green belt development in and around the project site covering 33 % of the project area. The PP should submit the number of saplings to be planted, names of native species, area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling should be of native and few fruit bearing species mainly, of height not less than 4 feet to be selected and accordingly cost of plantation needs to be decided.

xiv. Action plan for development of three-tier plantation programme (33.0% of total project cover area) along the periphery of the project boundary and the coal transportation route shall be provided. PP shall submit concurrent plantation plan.

xv. Project proponent shall explore the feasbility of additional green belt development in the land outside the plant area. Action plan in this regard shall be submitted by the proponent.

xvi. Detailed action plan shall be prepared for maintenance of air pollution control equipment for proposed units and shall be incorporated in the EIA/EMP report.

xvii. Details of Ash management plan as per MoEF&CC notification dated 31/12/2021 & its subsequent amendment for the proposed project shall be submitted. MoU signed for ash utilization with companies shall be submitted.

xviii. Action plan for dry ash collection system (Bottom ash and Fly ash) shall be submitted.

xix. Action plan for disposal of ash through High Concentration Slurry Disposal (only in emergency conditions) shall be submitted.

xx. Proper protection measures like high-density polyethylene (HDPE) lining, appropriate height of bund and adequate distance between the proposed Ash pond and water body (minimum 60 meters) etc. shall be planned to reduce the possibility of mixing leachate with any freshwater body for ash pond. A high-density Slurry disposal plan shall be prepared.

xxi. Pond and ground water quality (10 locations within 2 km radius of the plant boundary) shall be studied, and report be submitted along with EIA/EMP. Action plan for Ground water monitoring stations on all hotspots like schools/hospitals within 2 km radius of the plant boundary be submitted. Baseline Study for Heavy metals in Groundwater, Surface water and soil to be carried out and incorporated in EIA/EMP report.

xxii. Details pertaining to water source, treatment and discharge should be provided.

xxiii. PP shall provide the details of wastewater treatment facilities to be installed within its capacity, timeline and budget.

xxiv. Project Proponent to conduct Environmental Cost Benefit Analysis for the project in EIA/EMP Report.

xxv. An action plan shall be prepared for Water shed development within 10 km radius of the plant boundary in consultation with reputed government institution and incorporated in EIA/EMP report.

xxvi. PP should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total material handled) and steps to be taken for reduction of the same. The year-wise target for reduction in the specific diesel consumption needs to be submitted. PP shall also explore the possibility of using e-vehicles/LNG/CNG-based machinery and trucks for the operation and transportation of Coal and ash and submit an implementation strategy.

xxvii. PP shall provide the details of transportation of fly ash from the plant, transportation route etc. Further, carry out a traffic study for at least one month and provide the impact of transportation along with the mitigation measures. The fly ash bulkers shall be used for transportation of fly ash and there shall not be any spillage of fly ash on roads.

xxviii. PP shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.

xxix. Details on renewable energy (solar plant) proposed to be installed as energy conservation measures and action plan for the same shall be submitted.

xxx. The input parameters for the AAQ modelling and the influence of various combinations of these on the AAQ must be reported in the EIA/EMP Report. In addition to the Wind Rose diagram collected for one season during the preparation of the EIA report, wind rose diagram for all seasons must be provided using secondary data from sources such as IMD/CPCB etc.

xxxi. Project proponent shall take all necessary steps to control the Air Quality and take additional mitigation measures for proposed TPP to maintain the Ambient Air Quality values within the limits. The action plan regarding maintaining ambient quality standards (Time weighted average for 24 hours and Annual both) be submitted. Further, project proponent shall submit an undertaking to abide by the provisions of the notification number G.S.R 465 (E) dated 11/07/2025 related to SO_2 emisison norms, as amended, and any subsequent amendment there of pursuant to the outcome of study carried out by CPCB in this regard.

xxxii. Details of air pollution control devices to be installed in the proposed 2x800 MW TPP along with its maintenance schedule shall be incorporated in EIA/EMP report.

xxxiii. Carbon emission due to TPP and allied carbon sequestration/ carbon offsetting plan be submitted.

xxxiv. PP is advised to implement the ***'Ek Ped Maa Ke Naam'*** Campaign, which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than green belt development. An action plan in this regard shall be submitted.

[B] Disaster Management

i. A Disaster Management Plan shall be prepared and incorporated in the EIA/EMP report.

[C] Socio-economic study

i. Public Health Action Plan including the provisions for drinking water supply for the local population shall be in the EIA/EMP Report. The status of the existing medical facilities in the project area shall be discussed. Possibilities of strengthening of existing medical facilities, construction of new medical infrastructure etc. will be explored after assessing the needs of the labour force and local populace.

ii. Public consultation (Public Hearing and Written submission) shall be conducted as per the provisions of EIA Notification, 2006 and as amended. As per the Ministry's OM dated 30.09.2020, to address the concern raised during the Public Hearing, the Project Proponent is required to submit the detailed activities proposed with year wise budgetary provision (Capital and recurring) for 5 years. Activities proposed shall be part of EMP. Tentative no. of project affected families (if any) shall be identified and accordingly appropriate Rehabilitation &Resettlement plan shall be prepared. The recommendation Socio-economic study may also be considered while planning the activities & budget.

iii. A need based Social Impact Assessment Study shall also be carried out and an action plan on its recommendations may also be submitted with budgetary provisions.

iv. Demographic details and land use change details in 10 km area shall be submitted.

[D] Miscellaneous

i. Project proponent shall submit the land acquisition related documents for the existing land as well as the proposed additional land of 185 Ha as per the MoEF&CC O.M. dated 7/10/2014 & 19/02/2025 along with EC application.

ii. Plot the wind rose diagram using the Typical Meteorological Year (TMY) data for the period considered for the study. The monitoring units shall be deployed in the field based on the coverage area ratio and direction of the wind. A mathematical model shall be developed for the local site rather than using the standard model available in software for both air & water quality modelling.

iii. PP shall conduct a detailed impact and risk assessment study by a national/reputed Institute.

iv. PP shall align its activities to one/few of the Sustainable Development Goals (SDG) and start working on the mission of net zero by 2050. PPs shall update the same to the EAC.

v. PP shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.

vi. Detailed description of all the court cases along with its current status shall be submitted.

vii. PP should provide in the EIA Report details of all the statutory clearances, permissions, no objection certificates, consents etc. obtained for this project under various Acts, Rules and regulations shall be submitted. Further, all the permissions/MoUs obtained for this project shall be revalidated and submitted along with the EIA/EMP report.

viii. The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs, which will analyse the samples.

ix. PP should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of persons to be engaged for the implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.

x. PP should submit the year-wise, activity wise and time-bound budget earmarked for EMP, occupational health surveillance, and activities proposed to address the issues raised during Public Hearing. The capital and recurring expenditure to be incurred needs to be submitted.

xi. Activities shall be prepared based on the issues arise during public hearing conducted and fresh written submission with defined timeline and budgetary provisions.

xii. Aerial view video of project site and coal transportation route proposed for this project shall be recorded through drone and be submitted.

xiii. The PP should ensure that only NABET-accredited consultants shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that the accreditation of the consultant is valid during the collection of baseline data, preparation of EIA/EMP report and the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and the PP and consultant are fully accountable for the same.

xiv. PP should provide in the EIA Report details of the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline after the grant of EC.

xv. All the certificates viz. involvement of Forestland, distance from the protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.

xvi. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025 and 08.10.2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12.11.2024 through which projects requiring prior EC were exempted from requirement of CTE.

Agenda No: 33.2

33.2: Expansion of Coal Based Thermal Power Plant (Phase-II) from 3x600 MW to 6x600 MW by **M/s KSK Mahanadi Power Company Limited** located at Village Nariyara, Tehsil Akaltara, **District Janjgir-Champa, Chhattisgarh – Amendment in Environmental Clearance (EC) - regarding.**

[Proposal No: IA/CG/THE/557583/2025; File No: J-13012/44/08-IA.II(T)]

33.2.1: M/s KSK Mahanadi Power Company Limited has made online application vide proposal no. IA/CG/THE/557583/2025 dated 08.11.2025 along with Form-4 seeking for amendment in the Environmental Clearance accorded by the Ministry vide letter no. J-13012/44/08-IA. I (T) dated 23/09/2015; 13/08/2021, 06/10/2025 under the provisions of the EIA Notification, 2006, for the project mentioned above.

Name of the EIA consultant: M/s GreenCindia Consulting Private Limited [NABET/EIA/2326/RA 0297; Valid up to 22/02/2026]

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting are given as under:

33.2.2: The existing project was accorded environmental clearance vide letter no. J-13012/44/08– IA.II (T) dated 19/10/2009 from MoEF&CC for setting up of 6x600 MW TPP. Subsequently, the details of the EC amendment obtained are summarized as below:

Sl. No.	EC/Amendment/Corrigendum/ Transfer	Date of Issue
1.	EC granted for 6X600 MW TPP	19/10/2009
2.	Corrigendum - Amendment in typographical error in Name of the company	19/11/2009
3.	Transfer of EC – Reg. name change	27/12/2010
4.	Amendment in EC – Reg. Coal Source	24/01/2012
5.	Amendment in EC – Reg. Amendment and extension of validity of EC	23/09/2015
6.	Amendment in EC – Reg. Coal source	26/05/2016
7.	Amendment in EC – Reg. Amendment and extension of validity of EC	19/04/2018
8.	Amendment in EC – Reg. Retrofit of pollution control facilities	13/08/2021

33.2.3: Out of 6x600MW, 3x600 MW (Unit-2, Unit-3 and Unit-4) coal based sub-critical thermal power plant has already been commissioned during 2013 and 2018 and units are fully operational at present. Consent to Operate for 3 x 600 MW (Unit 2,3 & 4) was accorded by Chhattisgarh Environment Conservation Board, Raipur vide letter no 903/TS/CECB/2024 dated 29/04/2024 with validity up to 17/05/2026. The balance 3x600 MW (Unit-1, Unit-5, and Unit-6) coal based sub-critical thermal power plant was under construction and the construction activities were suspended (before October 2019) due to financial constraints. The construction activities related to Unit No. 1, 5 & 6 was completed to the extent of 67.14%. In view of this, proponent obtained fresh EC for unit no. 1, 5 & 6 on 06/10/2025.

33.2.4: The implementation status of the existing ECs are as follows:

S. No.	Facility	Details of implementation of EC	As per CTO dated	Balance Quantity
1.	Coal based TPP	EC letter F. No. J- 13012/44/2008-IA. I (T), dated 19/10/2009 – Implemented (3 units constructed & commissioned)	CTO no. 903/TS/ CECB/ 2024 dt. 29 /04/ 2024 valid till 17.05.2026 (3 units constructed & commissioned)	**3x600MW**
2.		EC letter No. J- 13012/44/2008-IA.II (T), dated 06.10.2025 (Partial construction of 3 units to be completed and commissioned)	CTO yet to be obtained	**Under Construction stage**

33.2.5: The details of the condition for which amendment is sought and justification for the same is as follows:

Sl. No	Condition No	Details of Conditions As per ToR/EC	Amendment Sought	Justification
1.	Sr. No. 4 (xxxvi) in Page no. 2, in EC letter No. J-13012/44/2008-IA.II (T), Dated **23/09/2015**	Mechanism for an inbuilt Continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall put in place. (As per additional EC condition dtd.23/9/2015).	Requesting amendment in Environmental Clearance for the waiving off.	The Radio-active element was tested for Fly ash and Bottom Ash by Modern Test Centre Berhampur Odisha in 2021and again analysed in April 2025 by Govt. of India Dept. of Atomic Energy Board of Radiation and Isotope Technology (BRIT), Mumbai. KMPCL is committed & assures to conduct the same analysis once every two years through BRIT and reports shall be submitted to MoEF & CC as part of compliance report. However, an in-built continuous monitoring mechanism for radioactivity is not available as no such equipment exists in the market. Therefore, this condition may kindly be waived off.
2.	Sr. 4 (xi), page 2, in EC letter No. J-13012/44/2008-IA.II (T) dated **23.09.2015** and Sr. no. 7 (viii) of OM 28.8.2019, page no. 3.	Fly ash not be used for Agriculture purpose & Fly ash to be used ash soil conditioner in agriculture needs (As per EC additional condition O.M. dated 28/8/2019), As per CCR dated 06/06/2025, it is mentioned that the condition needs to be examined by MoEF which is repugnant.	Requesting amendment in Environmental Clearence for the waiving off.	KMPCL has not, till date, used ash as soil conditioner or not utilized for agricultural purposes. And this condition is in contrary to the OM dated 28.08.2019. Therefore, this condition may kindly be waived off.
3.	Sr. no. 6 (ii) in page 2, EC letter F. No. J-13012/44/2008-IA. I (T), dated 13/08/2021 and Sr no. 1.15, page no. 24 of Specific EC condition, F. No. J- 13012/44/08-	Additional 50 ha. Green belt in next five years (As per EC condition dated 06/10/2025 and as per Amended EC under retrofitting of PC facilities dated 13/08/2021).	Requesting amendment in Environmental Clearence for the waiving off.	As per the latest Office Memorandum dated 29.10.2025 regarding greenbelt development, Section B specifies that a minimum of 25% greenbelt coverage is required for Red Category projects (PI≥80). KMPCL has already developed 33% (covering 277 Ha) greenbelt development with 90% survival rate, which has been verified by

Sl. No	Condition No	Details of Conditions As per ToR/EC	Amendment Sought	Justification
	IA.II(T) dated **06/10/2025**.			"Society For Environment & Integrated Development", Raipur (CECB Approved agency). Further, KMPCL is committed & assures the causality replacement by planting additional 75,000 plants within 277Ha. Hence, as KMPCL has already achieved 33% of Greenbelt plantation which is more than the Requirement specified in OM dated 29.10.2025, The requirement for an additional 50 hectares of greenbelt may kindly be waived off.

33.2.6: Justification for the Proposed EC amendment: PP submitted the following justification:

i. The Radio-active element was tested for Fly ash and Bottom Ash by Modern Test Centre Berhampur Odisha in 2021 and again analysed in April 2025 by Govt. of India Dept. of Atomic Energy Board of Radiation and Isotope Technology (BRIT), Mumbai. KMPCL is committed & assures to conduct the same analysis once every two years through BRIT and reports shall be submitted to MoEF&CC as part of compliance report. However, an in-built continuous monitoring mechanism for radioactivity is not available as no such equipment exists in the market. Therefore, this condition may kindly be waived off.

ii. KMPCL has not, till date, ash from TPP as soil conditioner or not utilized for agricultural purposes. And this condition is in contrary to the provision of the ash utilization notification dated 31/12/2021 and its amendment. Therefore, this condition may kindly be waived off.

iii. As per the latest Office Memorandum dated 29.10.2025 regarding greenbelt development, Section B specifies that a minimum of 25% greenbelt coverage is required for Red Category projects (PI ≥ 80). KMPCL has already developed 33% (covering 277 Ha) greenbelt development with 90% survival rate, which has been verified by "Society for Environment & Integrated Development", Raipur (CECB Approved agency). Further, KMPCL is committed & assures the causality replacement by planting additional 75,000 plants within 277 Ha. Hence, as KMPCL has already achieved 33% of green belt plantation which is more than the requirement specified in OM dated 29.10.2025, the requirement for an additional 50 hectares of greenbelt may kindly be waived off.

Observations and deliberation of the EAC

33.2.7: The Committee observed and noted the following:

i. Instant project proposal is for seeking amendment in various conditions prescribed in the granted Environmental Clearances (ECs) dated 19/10/2009 & its amendment and 06/10/2025 accorded for the project 6x600 MW TPP located at Village Nariyara, Tehsil Akaltara, Dist. Janjgir-Champa, Chhattisgarh. The proposed amendments

pertain to Continuous monitoring of radioactivity in coal and fly ash, Fly ash utilization, and development of an additional 50 ha greenbelt area.

ii. The committee prima-facie observed that EC amendment proposal has been submitted by the proponent in a very casual manner as there is no proper cover letter, date of EC accord, references where in amendment sought have been wrongly mentioned.

iii. The EAC observed that condition with respect to the additional 50 Ha plantation was originally prescribed in the EC amendment letter dated 13/08/2021 as an additional EC conditions stating that *"(ii) PP shall conduct additional 50 ha of afforestation (beyond 33% norms) and maintain survival rate over 90% throughout the year for every plant species, only Sal Trees shall be planted and maintained".* Till date, PP has not complied with this condition and the same has been reported in the certified compliance report of the Regional Office which was considered by the EAC during the appraisal of fresh EC for Unit 1, 5, & 6 held during 12-13th August, 2025. During this appraisal process, proponent again committed to comply with the condition regarding additional 50 Ha plantation and accordingly condition (No. 1.15) was again imposed in the EC dated 6/10/2025. Proponent is now seeking for amendment in this EC condition based on the OM dated 29/10/2025 which is only having prospective effect and not retrospective effect. Besides, PP as well as the consultant failed to apprise the EAC regarding the basis wherein EAC has prescribed for additional 50 Ha plantation, reasons for not complying with the condition as on date and justification for seeking the proposed amendment.

iv. Information submitted in the brief writeup and online application form is observed to be not matching with each other. For instance, PP has sought amendment in EC letter dated 23.09.2025 and 28.08.2019 which are not existing in the records of the Ministry. No map is submitted by delinerating the 50 Ha area meant for additional plantation and present use of the said land. The Committee opined that amendment sought by the proponent regarding additional plant should have supported with the scientific data.

v. PP has not submitted/uploaded the requisite documents such as Covering letter, EC letters etc along with the application form. EAC also observed that, the Project Proponent (PP) did not provide the correct details of the specific EC conditions for which the amendment is sought.

vi. The Committee noted several discrepancies in the information provided by the PP/consultant and observed that the Project Proponent (PP) could not give satisfactory responses during the EAC presentation. Submission of vague information by the Proponent/consultant and the consequent wasting of the committee's valuable time is inadmissible.

vii. The committee advised the project proponent to revisit the entire proposal in totality by addressing all relevant concerns related to the proposal under consideration. Thereafter, appropriate changes in all the requisite documents such as application form, annexure and the presentation etc. shall be carried out and the proposal shall be submitted for fresh consideration by the EAC.

Recommendations of the committee:

33.2.8: In view of the foregoing and after the detailed deliberations, the Committee recommended **to return the proposal in its present** form and asked the proponent to revisit the entire application by incorporating all the technical shortcomings inter-alia including the

above and thereafter proposal shall be submitted by the proponent for fresh consideration by the EAC.

Agenda No: 33.3

33.3: Expansion of 2x300 MW (Phase-I, Operational) and 2x660 MW (Phase-II, under construction) by addition of 2x800 MW (1600 MW, under Phase-III Ultra Super Critical TPP) within the existing Plant area **by M/s. Korba Power Limited** at Village Saragbundia, Dhandhani, Paladi, Khordal, Pahanda and Pathadi, Tehsil Kartala **District, Korba, Chhattisgarh – Prescribing of Terms of Reference (ToR) – reg**.

[Proposal No: IA/CG/THE/554248/2025; F. No. J-13011/3/2009-IA.II(T)]

33.3.1: M/s. Korba Power Limited (Formerly, Lanco Amarkantak Power Limited) a subsidiary of Adani Power Limited has made an online application vide proposal no. IA/CG/THE/554248/2025 dated 18.10.2025 along with the application in the prescribed format (CAF, Form – I Part A & B), the copy of Pre-Feasibility Report and proposed Terms of References (ToRs) for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. 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.

Name of the EIA consultant: M/s Gaurang Environmental Solutions Pvt. Ltd. [Listed at 110, Certificate No. NABET/EIA/23-26/RA 0338 dated16/07/2024 valid up to 07/12/2026].

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

33.3.2: The proposed project is for expansion of the 2x300 MW (Phase-I, Operational) and 2x660 MW (Phase-II, under construction) by addition of 2x800 MW (1600 MW, under Phase-III Ultra Super Critical TPP) within the existing Plant area at Village Saragbundia, Dhandhani, Paladi, Khordal, Pahanda and Pathadi, Tehsil Kartala District, Korba, Chhattisgarh by M/s. Korba Power Limited.

33.3.3: The existing project (Phase- I: 2x300 MW) was accorded environmental clearance vide lr. no. J-13012/21/2004.IA-II(T) dated 19.11.2004, and EC transfer (P. No IA/CG/THE/503074/2024) from Lanco Amarkantak Power Limited to Korba Power Limited vide lr. no. J-13012/21/2004.IA-II (T), J-13011/44/2007-IA.II(T) & J-13011/03/2009-IA.II(T) dated 13.01.2025 (EC24A0601CG5592452T). The EC was granted for Unit 3 (1x660 MW) vide letter no. 13011/44/2007-IA.II(T) dated 31.12.2007 and its subsequent amendment dated 04.09.2008 & validity extension dated 19.02.2014, and for Unit 4 (1x660 MW) EC was granted vide letter no. J-13011/03/2009-IA.II(T) dated 26.05.2010 and validity extension of EC dated 22.06.2015 and 17.05.2018 from MoEF&CC. The revival of EC (Phase- II: 2 x 660 MW) along with CTE conditions for Unit-3 & Unit-4 for completion of balance work was issued by MoEF&CC vide lr. no. J-13011/3/2009-IA.II(T) on 22.07.2025 & further EC Amendment obtained for future expansion within the existing land of 505.58 Ha vide File no. J-13011/3/2009-IA.II(T) dated 29.10.2025. Consent to Operate (CTO) for the existing Unit 1 & 2 (2x300 MW) was accorded by Chhattisgarh Environment Conservation Board (CECB) vide lr. No. 443/TS/CECB/2024 dated 15.04.2024. The validity of CTO is up to 31.05.2027.

33.3.4: Implementation status of the existing ECs

S. No.	Configuration	Capacity (MW)	As per EC dated	Implementation Status as on till date	Production as per CTO
1.	2 x 300 MW (Unit -1 & 2)	600 MW	19.11.2004	Units are operational Since 2010	2 x300 MW
2.	2 x 660 MW (Unit -3 & 4)	1320 MW	22.07.2025	Under Construction	…

In addition to the above, status of compliance to the SO_2 emission norms shall be furnished as per the MoEF&CC Notification dated 11/07/2025

i. Categorization details of TPP: " C "

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

iii. Status of SO_2 emission control facility for existing unit: 275 m high Chimney is envisaged as per MOEF&CC Notification dated 11.07.2025.

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 expansion.: Chimney with 275 m height (Twin flue) is proposed.

33.3.5: Environmental site settings:

S. No.	Particulars	Details	Remarks
1.	**Total Land**	Total land = 505.58 Ha (Govt. land 505.58 ha) Land use: Industrial (Chhattisgarh Govt. Land provided by CSIDC in 2005 & 2006)	--

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>2.</td><td>Land use break up</td><td>
<table>
<tr><th>Facilities</th><th>Phase-I (in Ha.)</th><th>Phase-II (in Ha.)</th><th>Proposed Expansion under Phase-III (in Ha.)</th><th>Total Area (in Ha.)</th></tr>
<tr><td>Main Plant</td><td>71.12</td><td>65.00</td><td>62.24</td><td>198.36</td></tr>
<tr><td>Coal Storage and Handling</td><td>20.00</td><td>26.00</td><td>29.00</td><td>75.00</td></tr>
<tr><td>Water System</td><td>10.52</td><td>-</td><td>-</td><td>10.52</td></tr>
<tr><td>Switchyard</td><td colspan="3">Included in main plant area</td><td>-</td></tr>
<tr><td>Greenbelt</td><td>85.21</td><td>42.07</td><td>31.76</td><td>159.04</td></tr>
<tr><td>Road</td><td colspan="3">Included in Main plant area</td><td>-</td></tr>
<tr><td>Ash pond</td><td>30.21</td><td>19.10</td><td>-</td><td>49.31</td></tr>
<tr><td>Railway siding</td><td colspan="3">Included in Coal Handling System (Outside ROU)</td><td>-</td></tr>
<tr><td>Water supply pipeline</td><td colspan="3">Included in Water System (Outside ROU)</td><td>-</td></tr>
<tr><td>Ash transport pipeline</td><td colspan="3">Included in Main plant area</td><td>-</td></tr>
<tr><td>Township & other</td><td>9.31</td><td>-</td><td>4.04</td><td>13.35</td></tr>
<tr><td>Total land</td><td>226.37</td><td>152.17</td><td>127.04</td><td>505.58</td></tr>
</table>
</td><td></td></tr>
<tr><td>3.</td><td>Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 & 20.02.2025</td><td>The land is already in possession with proponent</td><td>Land Documents are submitted along with ToR application</td></tr>
<tr><td>4.</td><td>Existence of habitation & involvement of R&R, if any.</td><td><u>Project site</u>: No Rehabilitation and Resettlement (R & R) is required.

Study Area:
<table>
<tr><th>Habitations/ Name of Villages</th><th>Distance (Km)</th><th>Direction</th></tr>
<tr><td>Pathadi</td><td>1.51</td><td>E</td></tr>
<tr><td>Pahanda</td><td>1.57</td><td>E</td></tr>
<tr><td>Khoddle</td><td>1.06</td><td>W</td></tr>
<tr><td>Saragbundia</td><td>1.54</td><td>SE</td></tr>
<tr><td>Dhandani</td><td>2.23</td><td>S</td></tr>
<tr><td>Sandail</td><td>3.13</td><td>SW</td></tr>
<tr><td>Baridih</td><td>2.89</td><td>W</td></tr>
<tr><td>Katbitla</td><td>3.21</td><td>W</td></tr>
<tr><td>Urga</td><td>3.85</td><td>NE</td></tr>
<tr><td>Akhrapali</td><td>2.1</td><td>NW</td></tr>
<tr><td>Bagbura</td><td>2.75</td><td>NE</td></tr>
<tr><td>Baigapali</td><td>3.95</td><td>NW</td></tr>
<tr><td>Barbapur</td><td>4.76</td><td>N</td></tr>
</table>
</td><td>Status of R&R. - Not applicable as R&R not involved.</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>Barpali</td><td>2.21</td><td>S</td></tr>
<tr><td>Bhaisamura</td><td>1.84</td><td>SW</td></tr>
<tr><td>Bhaisma</td><td>4.83</td><td>NE</td></tr>
<tr><td>Bhalpahri</td><td>4.9</td><td>NW</td></tr>
<tr><td>Darrabhata</td><td>0.19</td><td>N</td></tr>
<tr><td>Deurmal</td><td>3.4</td><td>NW</td></tr>
<tr><td>Jarwe</td><td>4.6</td><td>SE</td></tr>
<tr><td>Kanki</td><td>4.6</td><td>SW</td></tr>
<tr><td>Karbitla</td><td>2.4</td><td>W</td></tr>
<tr><td>Kudurmal</td><td>3.75</td><td>NW</td></tr>
<tr><td>Kukricholi</td><td>2.8</td><td>NE</td></tr>
<tr><td>Mashan</td><td>1.63</td><td>NE</td></tr>
<tr><td>Pakariya</td><td>4.05</td><td>SE</td></tr>
<tr><td>Purena</td><td>4.15</td><td>S</td></tr>
<tr><td>Salihabhatha</td><td>2.123</td><td>SE</td></tr>
<tr><td>Saraidih</td><td>4.45</td><td>SE</td></tr>
<tr><td>Semipali</td><td>3</td><td>N</td></tr>
<tr><td>Tarda</td><td>3.88</td><td>NW</td></tr>
<tr><td>Tikeja</td><td>3.35</td><td>E</td></tr>
</table>
Protective measures adopted are as follows:
• Dedicated plant approach roads avoiding villages.
• Covered trucks and speed control within 25 km/h
• Warning signage near village road junctions.
• Periodic health check-up camps in villages.
• Distribution of masks during peak construction Supply of treated drinking water.
• Livelihood enhancement programs (skill training, vendor inclusion).
• Preference to local employment.
• Community development under CSR.
• Village-level grievance cell.
• Monthly community interaction meetings.
• Toll-free helpline and grievance log.
• Acoustic enclosures for turbines and DG sets.
• Construction limited to daytime hours near habitations.
• Plantation buffers along plant boundary.
• Zero Liquid Discharge (ZLD) policy.
• Lined drains and leak-proof ash slurry pipelines.
</td><td></td></tr>
<tr><td>5.</td><td>Existence of schools and hospitals, if any</td><td>
A. School
In project site: Nil

Study Area:
<table>
<tr><th>School</th><th>Distance (Km)</th><th>Direction</th></tr>
<tr><td>Govt. Middle School, Khoddal</td><td>1.09</td><td>N</td></tr>
<tr><td>Govt. Primary School, Darrabhata</td><td>1.48</td><td>N</td></tr>
<tr><td>Govt High School, Sandail</td><td>2.82</td><td>SW</td></tr>
<tr><td>Dhandhani Pratamik, Shala</td><td>2.19</td><td>S</td></tr>
</table>
</td><td></td></tr>
</table>

S. No.	Particulars	Details	Remarks

Govt. High School, Patadhi	1.86	E
Saraswati Higher Secondary School , Sitamani Korba	9.3	NW
Jain Public School, Godhi Road, Korba	9.9	NE

Protective measures adopted are as follows:

• Air and Noise Control: Dust suppression, greenbelt development, and acoustic barriers will be implemented; high-noise activities will be limited to non-school hours.

• Safe Access: Signage, speed breakers, and crossing guards will be provided; heavy vehicle movement near schools will be restricted during school timings.

• Health & Awareness: Regular health camps, distribution of masks, and environmental awareness programs will be conducted for students.

• CER & Monitoring: Support for school infrastructure and scholarships will be provided under CSR; air and noise

B. Hospital

In project site: Nil

Study Area:

Hospital	Distance(Km)	Direction
Community Health centre, Patadhi	1.77	NE
Sub Health centre, Khoddal	1.10	N
Sub Health centre, Pahanda	2.44	NE
Primary Health Centre, Saragbundia	1.74	E
Sub Health centre, Baridih	2.87	N
Sub Health Centre, Tarda , Korba	5.3	NW
Primary Health Centre, Pathadi Korba	5.6	S
Railway Health Centre, Korba	9.8	E

Protective measures adopted are as follows:

• Dust Suppression: Regular water sprinkling and fogging near access roads and work zones close to health centres.

• Greenbelt Buffer: Plantation of native species between the plant and nearest health centre to reduce air and noise impact.

• Monitoring: Third parity ambient air and noise quality within 0.5 km; data shared with local health authorities.

• Noise & Vibration Control: High-noise and vibration activities to be scheduled outside critical healthcare hours.

• CER Support: Provision of medical equipment, emergency kits, health camps, and training to nearby health centres.

• Emergency Preparedness: Health centres will be integrated into the project's disaster response and

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>coordination plans.</td><td></td></tr>
<tr><td>6.</td><td>Latitude and Longitude of all corners of the project site.</td><td>A. Plant Site
<table>
<tr><th>S.NO.</th><th>LATITUDE</th><th>LONGITUDE</th></tr>
<tr><td>1</td><td>22°15'6.33"N</td><td>82°43'7.97"E</td></tr>
<tr><td>2</td><td>22°15'0.77"N</td><td>82°44'0.33"E</td></tr>
<tr><td>3</td><td>22°14'43.07"N</td><td>82°44'0.14"E</td></tr>
<tr><td>4</td><td>22°14'44.22"N</td><td>82°43'41.72"E</td></tr>
<tr><td>5</td><td>22°14'23.52"N</td><td>82°43'36.86"E</td></tr>
<tr><td>6</td><td>22°14'21.68"N</td><td>82°43'40.00"E</td></tr>
<tr><td>7</td><td>22°14'20.87"N</td><td>82°43'36.47"E</td></tr>
<tr><td>8</td><td>22°14'17.87"N</td><td>82°43'35.70"E</td></tr>
<tr><td>9</td><td>22°14'17.30"N</td><td>82°43'35.83"E</td></tr>
<tr><td>10</td><td>22°14'17.28"N</td><td>82°43'35.49"E</td></tr>
<tr><td>11</td><td>22°14'16.24"N</td><td>82°43'35.17"E</td></tr>
<tr><td>12</td><td>22°14'16.24"N</td><td>82°43'34.34"E</td></tr>
<tr><td>13</td><td>22°14'13.38"N</td><td>82°43'32.92"E</td></tr>
<tr><td>14</td><td>22°14'13.28"N</td><td>82°43'33.35"E</td></tr>
<tr><td>15</td><td>22°14'11.99"N</td><td>82°43'33.15"E</td></tr>
<tr><td>16</td><td>22°14'12.02"N</td><td>82°43'32.85"E</td></tr>
<tr><td>17</td><td>22°14'10.26"N</td><td>82°43'32.39"E</td></tr>
<tr><td>18</td><td>22°14'10.15"N</td><td>82°43'32.84"E</td></tr>
<tr><td>19</td><td>22°14'8.52"N</td><td>82°43'32.50"E</td></tr>
<tr><td>20</td><td>22°14'7.59"N</td><td>82°43'31.66"E</td></tr>
<tr><td>21</td><td>22°14'7.72"N</td><td>82°43'30.45"E</td></tr>
<tr><td>22</td><td>22°14'5.72"N</td><td>82°43'30.18"E</td></tr>
<tr><td>23</td><td>22°14'5.88"N</td><td>82°43'28.86"E</td></tr>
<tr><td>24</td><td>22°14'5.14"N</td><td>82°43'28.76"E</td></tr>
<tr><td>25</td><td>22°14'5.18"N</td><td>82°43'27.02"E</td></tr>
<tr><td>26</td><td>22°14'4.20"N</td><td>82°43'26.95"E</td></tr>
<tr><td>27</td><td>22°14'4.25"N</td><td>82°43'25.51"E</td></tr>
<tr><td>28</td><td>22°14'5.22"N</td><td>82°43'25.54"E</td></tr>
<tr><td>29</td><td>22°14'5.11"N</td><td>82°43'23.62"E</td></tr>
<tr><td>30</td><td>22°14'4.28"N</td><td>82°43'23.72"E</td></tr>
<tr><td>31</td><td>22°14'4.23"N</td><td>82°43'23.18"E</td></tr>
<tr><td>32</td><td>22°14'4.99"N</td><td>82°43'23.01"E</td></tr>
<tr><td>33</td><td>22°14'4.43"N</td><td>82°43'20.01"E</td></tr>
<tr><td>34</td><td>22°13'59.37"N</td><td>82°43'19.04"E</td></tr>
<tr><td>35</td><td>22°13'59.18"N</td><td>82°43'21.21"E</td></tr>
<tr><td>36</td><td>22°13'55.91"N</td><td>82°43'21.07"E</td></tr>
<tr><td>37</td><td>22°13'54.04"N</td><td>82°43'18.77"E</td></tr>
<tr><td>38</td><td>22°13'50.92"N</td><td>82°43'18.79"E</td></tr>
<tr><td>39</td><td>22°13'46.48"N</td><td>82°43'17.76"E</td></tr>
<tr><td>40</td><td>22°13'45.49"N</td><td>82°43'19.90"E</td></tr>
<tr><td>41</td><td>22°13'42.42"N</td><td>82°43'19.13"E</td></tr>
<tr><td>42</td><td>22°13'42.18"N</td><td>82°43'21.70"E</td></tr>
<tr><td>43</td><td>22°13'33.75"N</td><td>82°43'20.93"E</td></tr>
<tr><td>44</td><td>22°13'33.89"N</td><td>82°43'22.89"E</td></tr>
<tr><td>45</td><td>22°13'33.02"N</td><td>82°43'23.20"E</td></tr>
<tr><td>46</td><td>22°13'32.19"N</td><td>82°43'21.02"E</td></tr>
<tr><td>47</td><td>22°13'26.43"N</td><td>82°43'20.15"E</td></tr>
<tr><td>48</td><td>22°13'27.99"N</td><td>82°42'47.90"E</td></tr>
<tr><td>49</td><td>22°13'28.84"N</td><td>82°42'46.86"E</td></tr>
</table></td><td></td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>50</td><td>22°13'31.54"N</td><td>82°42'43.97"E</td></tr>
<tr><td>51</td><td>22°13'33.50"N</td><td>82°42'44.19"E</td></tr>
<tr><td>52</td><td>22°13'34.79"N</td><td>82°42'44.79"E</td></tr>
<tr><td>53</td><td>22°13'35.08"N</td><td>82°42'44.14"E</td></tr>
<tr><td>54</td><td>22°13'38.78"N</td><td>82°42'45.17"E</td></tr>
<tr><td>55</td><td>22°13'39.30"N</td><td>82°42'44.59"E</td></tr>
<tr><td>56</td><td>22°13'43.63"N</td><td>82°42'44.36"E</td></tr>
<tr><td>57</td><td>22°13'44.43"N</td><td>82°42'38.54"E</td></tr>
<tr><td>58</td><td>22°13'38.75"N</td><td>82°42'38.32"E</td></tr>
<tr><td>59</td><td>22°13'43.80"N</td><td>82°42'27.34"E</td></tr>
<tr><td>60</td><td>22°13'48.92"N</td><td>82°42'24.12"E</td></tr>
<tr><td>61</td><td>22°13'52.57"N</td><td>82°42'18.49"E</td></tr>
<tr><td>62</td><td>22°13'52.51"N</td><td>82°42'16.70"E</td></tr>
<tr><td>63</td><td>22°13'54.28"N</td><td>82°42'16.27"E</td></tr>
<tr><td>64</td><td>22°13'54.58"N</td><td>82°42'17.48"E</td></tr>
<tr><td>65</td><td>22°14'10.64"N</td><td>82°42'13.01"E</td></tr>
<tr><td>66</td><td>22°14'21.59"N</td><td>82°42'24.39"E</td></tr>
<tr><td>67</td><td>22°14'26.38"N</td><td>82°42'22.46"E</td></tr>
<tr><td>68</td><td>22°14'31.34"N</td><td>82°42'34.44"E</td></tr>
<tr><td>69</td><td>22°14'36.18"N</td><td>82°42'33.39"E</td></tr>
<tr><td>70</td><td>22°14'35.96"N</td><td>82°42'37.31"E</td></tr>
<tr><td>71</td><td>22°14'43.35"N</td><td>82°42'37.87"E</td></tr>
<tr><td>72</td><td>22°14'41.49"N</td><td>82°43'6.09"E</td></tr>
</table>
B. Ash Pond
<table>
<tr><th>S.No.</th><th>LATITUDE</th><th>LONGITUDE</th></tr>
<tr><td>1</td><td>22°14'25.56"N</td><td>82°42'42.84"E</td></tr>
<tr><td>2</td><td>22°14'24.25"N</td><td>82°43'15.48"E</td></tr>
<tr><td>3</td><td>22°14'6.95"N</td><td>82°43'14.13"E</td></tr>
<tr><td>4</td><td>22°14'9.29"N</td><td>82°42'41.31"E</td></tr>
</table>
</td><td></td></tr>
<tr><td>7.</td><td>Elevation of the project site</td><td>280-309 M above mean sea level</td><td>--</td></tr>
<tr><td>8.</td><td>Involvement of Forest land, if any.</td><td>No forest land involved.</td><td>--</td></tr>
<tr><td>9.</td><td>Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area</td><td>
Project Site:
<table>
<tr><th>S. No.</th><th>Particulars</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td>1</td><td>Gogi Nala</td><td colspan="2">Within the project site</td></tr>
</table>
Study area:
<table>
<tr><th>S. No.</th><th>Water Body</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td>1</td><td>Togi Nala</td><td>0.8</td><td>N</td></tr>
<tr><td>2</td><td>Hasdeo Left Bank Canal</td><td>0.9</td><td>W</td></tr>
<tr><td>3</td><td>Hasdeo river</td><td>2.35</td><td>NW</td></tr>
<tr><td>4</td><td>Son Nadi</td><td>3.8</td><td>SSE</td></tr>
<tr><td>5</td><td>Hasdo Right Bank Canal</td><td>4.3</td><td>WNW</td></tr>
<tr><td>6</td><td>Dom Nala</td><td>5.1</td><td>NE</td></tr>
<tr><td>7</td><td>Gandgei Nala</td><td>6.1</td><td>W</td></tr>
<tr><td>8</td><td>Karra Nala</td><td>6.2</td><td>NNW</td></tr>
<tr><td>9</td><td>Bendo Nala</td><td>7.3</td><td>SSE</td></tr>
</table>
</td><td>HFL letter of the Hasdeo river has been obtained from WRD Korba which is 271.60 m, vide letter dated 20.11.2024.</td></tr>
</table>

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td>10.</td><td>Archaeological sites monuments/ historical temples etc.</td><td>There are no Archaeological sites present within study area.</td><td>--</td></tr>
<tr><td>11.</td><td>Existence of ESZ/ ESA/ national park/wildlife sanctuary/biosphere reserve/ tiger reserve/elephant Reserve etc., if any within the study area.</td><td>Study area
Name of the ESZ/ESA: Nil
Status of Notification: NA
Distance of project from ESZ/ESA: NA
Authenticated map of ESZ projecting distance of ESZ from project site: NA
Status of NBWL approval: NA
List of Reserved and protected forests:
<table>
<tr><th>S. No.</th><th>Particulars</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td>1</td><td>Barpall R. F.</td><td>2.2</td><td>SW</td></tr>
<tr><td>2</td><td>Kudri P.F.</td><td>6.5</td><td>NNE</td></tr>
<tr><td>3</td><td>Tuman P.F.</td><td>7.3</td><td>SE</td></tr>
<tr><td>4</td><td>Bathapara R. F.</td><td>7.6</td><td>ESE</td></tr>
<tr><td>5</td><td>Pondibahar P.F.</td><td>7.8</td><td>NNE</td></tr>
<tr><td>6</td><td>Ramapara P. F.</td><td>9.5</td><td>SE</td></tr>
</table></td><td></td></tr>
<tr><td>12.</td><td>Facility envisaged in CRZ area (Only for coastal power plant)</td><td>Name of the facility in CRZ area – NA
Recommendations of CZMA – NA
Status of CRZ clearance – NA</td><td>--</td></tr>
<tr><td>13.</td><td>Involvement of Critically Polluted Area/Severely Polluted area as per 2018 CEPI score</td><td><u>Involvement of CPA/SPA:</u> - NA

<u>Proximity to CPA/SPA:</u> - The nearest CPA is Siltara industrial area which is ~145 km from project boundary in SW Direction</td><td>--</td></tr>
</table>

33.3.6: The unit configuration and capacity of existing and proposed project is given as below:

Sr. No.	Existing power plant configuration and capacity	Proposed power Plant configuration and capacity	Total	Technology adopted
1	**Phase I (Operational)**: (2x300) 600 MW - Sub Critical **Phase II (Under Construction):** 1320 (2x660) - Super Critical	**Phase III:** 1600(2x800)MW - Ultra Super Critical	3520 MW	Sub, Super & Ultra Super Critical

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

Details	Fuel requirement (MTPA)	Source	Distance from site (Kms)	Mode of Transportation	Coal characteristics (Worst case scenario)	Linkage document
Coal (Operation Phase I)	3.30 **(MTPA)**	SECL, Korba	Within 50 Km	Rail	Ash <40 (%) Sulphur <0.5 (%) Moisture-13 (%) GCV - 3200-3500 Kcal/Kg	FSA and E-auction
Coal (Under Construction Phase II)	5.24 **(MTPA)**	Korba/Raigarh coal mines of Southeastern Coalfields (SECL) and e-auction.	Within 50 Km	Rail	Ash <40 (%) Sulphur <0.5 (%) Moisture-13 (%) GCV - 3200-4300 Kcal/Kg	FSA and E-auction
Coal (Proposed Phase III)	6.50 **(MTPA)**	Korba/Raigarh coal mines of Southeastern Coalfields (SECL) and e-auction.	Within 50 Km	Rail	Ash <40 (%) Sulphur <0.5 (%) Moisture-13 (%) GCV - 3200-4300 Kcal/Kg	FSA and E-auction
LDO/HSD Operational Phase I)	2500 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors
LDO/HSD (Under Construction Phase II)	6000 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors
LDO/HSD (Proposed Phase II)	8000 KL/Annum	LDO/HSD from Local Market/Vendor	50-100 km	Road	Low Sulphur (3-5% mass)	Local Market/ Vendors

**** MTPA – Million Ton Per Annum***

33.3.8: Water requirement: Existing water requirement is 1,47,945 m^3 /day (Phase-I: 43,835 m^3/day + Phase-II: 1,04,110 m^3 /day), which is obtained from Hasdeo River and permission for the same has been obtained from WRD, Chhattisgarh vide letter no 5461/266/JS/TASA/02/ Raipur dated 17.11.2004 for Phase I Operation and vide lr. No. 6107/266/WR/TASA/ dated 27.10.2007 and 918/TAK/MA.Korba power Ltd./2024-25 dated 19.03.2025 for Phase II. The water requirement for the proposed project is estimated as 87,648 m^3 /day, out of which 87,648 m^3/day of fresh water requirement will be meet from the Hasdeo River. The permission for drawl of surface water is under process from WRD vide lr. No. 2241/Tech/Adani Power/2025 dated 01.07.2025. The water will be transported to the plant site through the existing pipeline. The specific water consumption for the proposed power plant will be < 2.5 m^3/MWhr.

33.3.9: Power requirement: Existing power requirement of 148 MW (Phase-I: 42 MW + Phase-II: 106 MW) is obtained from own TPP, i.e, AUX consumption. The power requirement for the proposed project is estimated as 96 MW, and will be obtained from the own TPP, i.e, AUX consumption.

33.3.10: 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	Municipal	Plant Canteen	49.2	Collected;	Inorganic will be disposed

S. No.	Type of Waste	Source	Quantity generated (TPA)	Mode of Treatment	Disposal
	Solid Waste			segregated using color coded waste bin, Organic waste converters (OWC)	via local municipal authorized vendor & Organic/Biodegradable waste by OWC.
2	E-waste	IT & Telecom Equipment	3.1 TPA	Collected; segregated	Registered Recycler vendor
3	Battery waste from UPS	Automotive & Industrial	6.1 TPA	Collected; segregated	Authorized Vendor
4	Bio medical waste	First aid center	0.1 TPA	Collected; segregated	Authorized vendor
5	Hazardous Waste	Plant Operation	Empty Barrels/ Containers/ Contaminated Liners – 11 TPA, Used/ Spent Oil – 60 TPA, TPA, Waste or residues containing oil – 3.0 TPA		Registered Recyclers/Pre-processors with SPCB & Authorized Recyclers

33.3.11: Cost of project: Existing capital cost (Phase I & II) of project was Rs. 10,897

Crores. The capital cost of the proposed project is Rs.16,611 Crores and the capital cost for environmental protection measures is proposed as Rs 1,384.41 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 13.84 Crores. The employment generation from the proposed expansion project is 2270.

33.3.12: Green belt development: Existing green belt has been developed in 127.28 ha [Phase I – 85.21 Ha + Phase II – 42.07 Ha (Under Construction)] area which is about 33.62% of the total project area of 378.54 Ha (Phase- I & II) with total sapling of 3,18,200 no. of Trees [Phase I – 2,13,025 nos. + Phase II – 1,05,175 nos. (Plantation will be developed along with plant construction). The proposed greenbelt will be developed in 31.76 Ha which is about 25% of the total proposed project area of 127.04 Ha Thus, total of 159.04 Ha area will be developed as greenbelt. A 10m wide greenbelt, consisting of thick greenbelt and green cover shall be developed as per CPCB guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 79,400 saplings will be planted and nurtured in 31.76 hectares in 10 years.

33.3.13: Ash management for the last three years

Year	Quantity generated (MT)	Quantity utilized (MT)	% of utilization	Balance quantity (MTP)	No of storage silos with capacity
FY 2022-23	1036446	1462739	141.74	---	3000 MT (2x1500 MT)
FY 2023-24	1137257	912278	80.53	224979	
FY 2024-25	1239078	1163541	93.90	75537	

**MT: Metric Ton*

A. Fly ash details for last three years= 29,58,437 MTPA **(2.95 MMT)** (Utilization)

S. No.	Activity (as applicable)	Quantity TPA	Percentage (%)	Remarks (Prior approval of SPCB details to be mentioned)
1.	Fly ash based products (bricks or blocks or tiles or fiber cement sheets or pipes or boards or panels)	94,969	3.21	….
2.	Cement manufacturing	12,24,588	41.39	….
3.	Construction of roads, road and fly over embankment	61,480	2.08	…
4.	Filling up of Stone Quarry /Voide Mines/low lying area	15,77,400	53.32	NOC from CECB
	Total	**29,58,437**	**100**	

**MTPA: Metric Ton Per Annum*

B. Bottom ash details for last three years= 5,79,849 M**TPA (0.58 MMT)**

S. No.	Activity (as applicable)	Quantity	Percentage	Remarks (Prior approval of SPCB details to be mentioned)
1.	Construction of roads, road and fly over embankment	3,89,204	67.12	….
2.	Filling up of Stone Quarry /Void Mines/low lying area	1,90,645	32.88	NOC from CECB
	Total	**5,79,849**	**100**	…

**MTPA: Metric Ton Per Annum*

C. Legacy ash details: NIL

D. Proposed ash utilization plan for expansion project:

Details	Existing generation	Proposed generation in MTPA	Total	Utilization (MTPA)	% of utilization	Balance quantity (MTPA)	No. of storage silos with capacity in MT
Ash	(Operational) Phase I - 1.31	Phase II (Under Construction) – 2.10 Phase III - 2.6 (Proposed)	6.01	6.01	100	…	**Ph- I**: 2x1500 MT **Ph-II**: 3x2200 MT **Ph-III:** 6x2500MT

** MTPA: Million Ton Per Annum*

Ash Pond details- APL has proposed an ash pond, details of which are given below:

S. No.	Details of Ash pond	Ash pond 1	Ash pond 2	Total
1.	Status of ash pond (Active /	Active	Under	Active & Under

S. No.	Details of Ash pond	Ash pond 1	Ash pond 2	Total
	Exhausted (yet to be reclaimed)/ Reclaimed)		Construction	Construction
2.	Area (Ha)	30.21	19.1	49.3
3.	Dyke height (m)	28.5	15	28.5 & 15
4.	Volume (m^3)	86,09,850	28,65,000	114,74,850
5.	Quantity of ash disposed (Million Metric Tons)	6.570	0	6.570
6.	Available volume in percentage (per cent) and quantity of ash can be further disposed of (Metric Tons)	23.69 % & 2,039,641 MT	100% & 28,65,000	57.25 % & 49,04,641 MT
7.	Expected life of ash pond (number of years and months)	15 Years considering April 2025	15 Years	15 Years considering April 2025
8.	Type lining carried in ash pond: HDPE lining of LDPE lining or clay lining or No lining	LDPE & HDPE	LDPE & HDPE	LDPE & HDPE
9.	Mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD)	LCSD	HCSD/MCSD	LCSD
10.	Ratio of ash: water in slurry mix (1:_):	35:65	65:35	1:4
11.	Ash water recycling system (AWRS) installed and functioning: Yes or No	Yes	Yes	Yes
12.	Quantity of wastewater from ash pond discharged into land or water body (m^3)	00	00	00
13.	Last date when the dyke stability study was conducted and name of the organization who conducted the study:	March 2025 Visvesvaraya National Institute of Technology (VNIT), Nagpur, Maharashtra	NA	March 2025 Visvesvaraya National Institute of Technology (VNIT), Nagpur, Maharashtra
14.	Last date when the audit was conducted and name of the organization who conducted the audit:	November 2024, NIT Rourkela	NA	November 2024, NIT Rourkela

33.3.14: Baseline data collection: Baseline data collection period from ***October'2024 to December'2024***

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
A. Air				
a. Meteorological parameters	Wind speed, Wind direction, Relative Humidity, Rainfall, Solar radiation and Cloud Cover	01	Hourly	…
b. AAQ	PM_{10}, $PM_{2.5}$, SO_2, NO_2, O_3, CO,	11	24 hourly	…

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
parameters	Pb, C_6H_6, NH_3, BaP, As, Ni & Hg		data, twice a week	
B. Noise	Hourly equivalent noise levels	11	One time sampling	…
C. Water				
Ground water quality parameters	Physical parameters – (pH, temp, colour, turbidity, odour, taste, TDS), Chemical parameters - (Total hardness, calcium, total alkalinity, chloride, magnesium, sulphate, fluoride, nitrate, iron, boron, chromium, Heavy metals like Hg, As, Pb, Ni, Mn, Cd) & microbiological parameters – (Total coliforms, E-coli) etc.	15	One time sampling	…
Surface water	Physical parameters – (pH, temp, colour, turbidity, odour, taste), Chemical parameters - (Total hardness, calcium, total alkalinity, chloride, magnesium, TDS, sulphate, fluoride, nitrate, iron, aluminium, boron, chromium, conductivity, BOD, COD, DO, TSS, Heavy metals like Hg, As, Pb, Ni, Mn, Cd) & microbiological parameters – (Total coliforms, faecal coliforms) etc.	08	One time sampling	…
D. Land				
a. Soil quality	Particle size distribution; Texture, pH, Electrical conductivity, cation exchange capacity (CEC), Alkali metals, Sodium Absorption Ratio (SAR), Permeability, Porosity, available nitrogen, available phosphorous, potassium, heavy metals like – As, Hg etc	11	One-time sampling.	…
b. Land use	Location code, Total project area, Topography, Drainage (natural) Cultivated, forest plantations, water bodies, roads, settlements and identification of common property resources (such as grazing and community land, water resources etc.) available	10 kms radius	Once	…
E. Biological				
c. Aquatic	Primary productivity, Enumeration of phytoplankton, zooplankton Fisheries Diversity indices Trophic levels, Rare and endangered species, etc.	Samples collected from upstream and downstream of discharge point, nearby tributaries at	Once during the study	…

Attributes	Parameters	Sampling		Remarks
		No. of stations	Frequency	
		downstream, and also from dug wells close to activity site.		
d. Terrestrial	Vegetation – species, list, economic importance, forest produce, medicinal value Importance value index (IVI) of trees and wild animals	Considering probable impact, sampling points and number of samples decided on established guidelines on ecological studies based on site eco-environment setting within 10 km radius from the proposed.	One time	…
e. Fauna**:**	Rare and endangered species Sanctuaries / National park / Biosphere reserve. Listing of birds, mammals, reptiles, amphibians etc.	For forest studies, chronic as well as short- term impacts analysed warranting data on micro climate conditions.	One time	…
F. Socio-economic parameters	Demographic structure Infrastructure resource base	Socio-economic sample survey	One time	…

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

A. Summary of court cases: There are four (04) court cases pertaining to local civil court and other arbitration. However, no cases are pertaining related to Environment.

Sl. No	Case no.	Name of Court Details	Brief Summary of the Case	Last date of hearing	Next date/ Order Passed	Action taken by PP
1	Civil suit No. 4A/2017	Civil Court Division Korba	Objections raised by Devermal villagers for stopping the construction.	16.09.2025	10.11.2025	Evidence Defendant
2	Civil suit no 34A/2018	Civil Court Division Court-Korba	Seeking stay order from the court that Land losers of unit 3 & 4 stop making agitations in front of operational unit Gate.	25.07.2025	Disposed	Stay Order from Court is expected to stop agitations.

Sl. No	Case no.	Name of Court Details	Brief Summary of the Case	Last date of hearing	Next date/ Order Passed	Action taken by PP
3	Civil suit No. 49A/2019	Third Civil Judge Sr. Division Korba	It's a family dispute for Land which was Award decree of 2.27 acres belong to him prior to acquisition of land. Lease deed has made between CSIDC & LAPL on 05.03.2013.	19.09.2025	12.11.2025	Argument on our application for a amendment and for taking documents on record.
4	Civil suit no. 109B/19	Civil Court Division Raipur	Asking for payment of Rs. 1,43,500/- on account of expenses of whitewashing of the house and two months rent of Rs. 70,000/- & income tax loss Rs. 3,500/- (Rs. 2, 13,500/-)	05.08.2025	24.11.2025	After detailed discussions with the Legal Team at Head Office, it has been decided to close the case by making payment of the claimed amount to the concerned party. Accordingly, our lawyer will engage in discussions with the said party, and steps will be taken to finalize the closure during the next proposed hearing.

B. Summary of Show Cause Notices: There are no Show Cause Notices pertaining to Environment & Forest.

C. Summary of violation: There is no violation cases under **t**he Environmental Protection Act, 1986, Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and the Wildlife (Protection) Act, 1972.

Observations and deliberation of the EAC

33.3.16: The Committee observed and noted the following:

i. Instant proposal is for Expansion of existing power plant Phase-I (2x300MW) & phase-II (2x660MW) by adding two units of 800 MW coal based Ultra Super Critical TPP under Phase-III (2x800MW) by M/s Korba Power Limited located at Village Saragbundia, Dhandhani, Paladi, Khordal, Pahanda and Pathadi, Tehsil Kartala District, Korba, Chhattisgarh.

ii. The existing project (Phase- I: 2x300 MW) was accorded environmental clearance vide letter dated 19.11.2004, and EC transfer from Lanco Amarkantak Power Limited

to Korba Power Limited vide letter dated 13.01.2025. The EC was granted to Unit 3 (1x660 MW) vide letter dated 31.12.2007 and subsequent amendment dated 04.09.2008 & validity extension dated 19.02.2014, and for Unit 4 (1x660 MW) EC was granted vide letter dated 26.05.2010 and validity extension of EC dated 22.06.2015 and 17.05.2018 from MoEF&CC. The revival of EC (Phase- II: 2 x 660MW) along with CTE conditions for Unit-3 & Unit-4 for completion of balance work was issued by the MoEF&CC vide letter dated 22.07.2025, and further EC amendment obtained for future expansion within the existing land of 505.58 Ha vide letter dated 29.10.2025. Consent to Operate (CTO) for the existing Unit 1 & 2 (2x300 MW) was accorded by Chhattisgarh Environment Conservation Board (CECB) vide letter dated 15.04.2024. The validity of CTO is up to 31.05.2027.

iii. The existing power project is established over 378.54 Ha of land (Phase-I: 226.37 Ha and Phase-II: 152.17 Ha) out of the total 505.58 Ha land area. An area of 127.04 Ha land is proposed for Phase-III USC TPP, which is already in the possession of M/s Korba Power Limited.

iv. 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.

v. There is no habitation within the project area, therefore, no Resettlement and Rehabilitation (R& R) is required for the proposed project.

vi. The EAC observed that the villages (Pathadi, Darrabhata, Khoddle and Saragbundia), Schools (Govt. Middle School, Khoddal and Govt. Primary School, Darrabhata) and hospitals (Sub Health centre, Khoddal) are located within 1.5 Km distance of the proposed project site. Therefore, the committee suggested for developing a dense greenbelt comprising native and pollution-tolerant species around the plant boundary for mitigating the potential impacts of air and noise pollution. Additionally, the Committee also recommended to conduct a risk assessment study by the nationally recognized or reputed institute/organization, and to submit the report along with EIA/EMP report.

vii. No forest land is involved in the existing (Phase-I and Phase-II project areas) and proposed (Phase-III) project area.

viii. EAC observed that the Gogi Nala is located within the project site, and therefore, flow and biodiversity of Nalla will be maintained by the PP.

ix. The Hasdeo River is located at a distance of approximately 2.35 km. from the project boundary. The authenticated High Flood Level (HFL) of Hasdeo River is 271.60 m. as per the letter dated 20.11.2024 obtained from WRD, Korba.

x. As per the DSS analysis, Reserve and Protected forest are located outside the project site and within study area which are Barapali R.F. (SW, at 2.2km), Kudri P.F. (NNE, at 6.5 km), Tuman P.F. (SE, at 7.3 km), Bathapara R. F. (ESE, at 7.6 km), Pondibahar P.F. (NNE, at 7.8 km) and Ramapara P.F. (SE, at 9.5 km). Further, there are no National Parks, Biosphere Reserves, Eco sensitive zone, or notified Tiger/Elephant Corridors, and notified wetland area within a 10 km radius of the project site. The committee also noted that there is no Archaeological sites present within study area.

xi. Existing water requirement is 1,47,945 m^3 /day (Phase-I: 43,835 m^3/day + Phase-II: 1,04,110 m^3 /day), which is obtained from Hasdeo River and permission for the same has been obtained from WRD, Chhattisgarh vide letter dated 17.11.2004 for Operation

Phase I, and vide lr. dated 27.10.2007 and 19.03.2025 for Phase II. The water requirement for the proposed project is estimated as 87,648 m^3 /day, which will be meet from the Hasdeo River. The permission for drawl surface water is under process. The water will be transported to the plant site through the existing pipeline. The specific water consumption for the proposed power plant will be < 2.5 m^3/MWhr.

xii. The EAC advised to explore the alternative water sources, including treated wastewater from STPs and coalmine void water located within a 50 km radius of the proposed project.

xiii. The existing power requirement of 148 MW (Phase-I: 42 MW + Phase-II: 106 MW) is obtained from self generated TPP. The power requirement for the proposed project is estimated as 96 MW, which will also be obtained from existing operational TPP.

xiv. Existing capital cost (Phase I & II) of project was Rs. 10,897 Crores. The capital cost of the proposed project is Rs.16,611 Crores and the capital cost for environmental protection measures is proposed as Rs 1,384.41 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 13.84 Crores.

xv. The Coal requirement for Phase-III of the project is estimated at approximately 6.50 MTPA, assuming 85% PLF and a Gross Calorific Value (GCV) of 3200-4300 Kcal/Kg. Coal for Phase-III will be sourced from nearby commercial Korba/Raigarh coal mines of Southeastern Coalfields (SECL) as per Fuel supply agreement (FSA) under Shakti policy & e-auction.

xvi. Existing green belt has been developed in 127.28 Ha [Phase I – 85.21 Ha. + Phase II – 42.07 Ha. (Under Construction)] area which is about 33.62% of the total project area of 378.54 ha (Phase- I & II) with total sapling of 3,18,200 no. of Trees [Phase I – 2,13,025 nos. + Phase II – 1,05,175 nos. (Plantation will be developed along with plant construction). The proposed greenbelt will be developed in 31.76 Ha., which is about 25% of the total proposed project area. Thus, total of 159.04 Ha area will be developed as greenbelt. A 10m. wide greenbelt, consisting of thick greenbelt and green cover shall be developed as per CPCB guidelines. Local and native species will be planted with a density of 2500 trees per hectare. The Committee noted that the total power generation capacity is increasing from 1920MW to 3520 MW within existing project area (505.58 Ha) along with increasing pollution load after Phase-III. Therefore, the committee recommended to increase the greenbelt area and explore additional land for greenbelt development outside the project site by the PP.

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

xviii. The Committee reviewed the existing ash management practices and noted that ash utilization for FY 2024–25 was 93.90%. For the proposed Phase-III units, the estimated ash generation is 2.6 Million Tonnes per Annum (MTPA), which is planned to be 100% utilized. Furthermore, the existing ash ponds (Phase-I: 30.21 Ha. and Phase-II**:** 19.10 Ha. will also be utilized for the proposed Phase-III project.

xix. Zero liquid discharge (ZLD) will be adopted for the proposed plant using suitable effluent treatment plant, sludge thickener and RO systems.

xx. EAC deliberated on construction of stack height and observed that stack height of Phase II and phase-III chimney would be 275 m. as per the provisions contained under Notification no GSR 465 (E) dated 11/07/2025.

xxi. PP has proposed Selective Catalytic Reduction (SCR) and Separated Over Fire Air

(SOFA) technologies to meet stringent NOx emission norms in Phase-III TPP project.

xxii. The committee suggested to calculate total carbon emission and sequestration in the proposed plant and the same shall be mentioned in EIA/EMP report.

xxiii. The EAC suggested for conducting the detail water quality, biodiversity and ecosystem service within study area (within 10km.) of project site and the same shall be submitted with the EIA/EMP reports. Additionally, PP shall also submit the Bio-diversity and ecosystem study of Hasdeo River.

xxiv. EAC noted that the baseline data were collected from October'2024 to December'2024.

xxv. The committee noted that 4 court case pertaining to local civil court are pending, however, no court case is related with Environment.

xxvi. 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 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

33.3.17: The EAC after detailed deliberations on the information submitted and as presented during the meeting ***recommended*** the proposal for grant of ToR for conducting an EIA study for the above project under the provisions of the EIA Notification, 2006 and as amended **subject to stipulation** the following specific ToR in addition to the generic ToRs.

Specific ToR:

[A] Environmental Management and Biodiversity Conservation

i. A Cumulative Environmental Impact Assessment study of all the existing and proposed projects in the 10-km. radius of the proposed project shall be conducted and the same shall be included the in EIA/EMP report. Details of industrial units present in 10 km. radius of the power plant shall be earmarked in map and submitted.

ii. Certified compliance report containing compliance to the prescribed EC conditions for the 2x300 MW (Phase I) and 2x660MW (Phase II) as per the MoEF&CC, O.M. dated 08/06/2022, shall be submitted.

iii. Project Proponent shall explore the feasibility of using water from coal mine void and treated sewage from Sewage Treatment Plants located within 50 km. radius of the proposed project as an alternative to the fresh water source to minimize the freshwater drawl from surface water bodies. Action plan in this regard shall be submitted.

iv. Project proponent shall explore the feasibility of using air cooled condenser in place of water-cooled condenser and details shall be incorporated in the final EIA/EMP report.

v. Certificate from concerned District Magistrate/Executive Engineer from the State Water Resources department (or) any officer authorized by the State Government in this regard shall be submitted stating that project site is not located within flood plain corresponding to one in 25 years of flood as per Ministry's O.M. dated 14/02/2022.

vi. All the parameters as mentioned in the National Ambient Air Quality Standards (NAAQS) shall be monitored by the project proponent.

vii. Project proponent shall also obtain recommendations from the State Forest department regarding the impact of project on the nearby Reserved Forests if any, along with the mitigation measures to be followed.

viii. EIA/EMP study shall take into consideration the different scenarios arising due to change of coal source, impact on environmental attributes due to change of coal source along with corresponding mitigation measures with EMP budget shall be submitted.

ix. Biodiversity analysis of the project site and study area shall be done through any NABET accredited consultant. The study report shall inter-alia include impact of release of cooling tower water on aquatic life and action plan for complying with the mitigation measures shall be submitted.

x. A biodiversity and ecosystem study of the Hasdeo River shall be conducted by an accredited or nationally recognized institute/organization and submitted along with the EIA and EMP report.

xi. Project proponent shall commission a study on Hydrology and Hydrogeology of the project site as well as the study area of the project site through a NABET accredited consultant. The study report along with the action plan for implementing the recommendations of the report shall be submitted along with the EIA/EMP report.

xii. Radioactivity studies along with coal analysis to be provided (Sulphur, ash percentage and heavy metals including Pb, Cr, As and Hg). Details of auxiliary fuel, if any including its quantity, quality, storage, etc should also be given.

xiii. PP should submit the detailed plan in tabular format (year-wise) for concurrent afforestation and green belt development in and around the project site covering 33 % of the project area. The PP should submit the number of saplings to be planted, names of native species, area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling should be of native and few fruit bearing species mainly, of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided.

xiv. Action plan for development of three-tier plantation programme (33.0% of total project cover area) along the periphery of the project boundary and the coal transportation route shall be provided. PP shall submit concurrent plantation plan.

xv. Project proponent shall explore the feasibility of additional green belt development in the land outside the plant area. Action plan in this regard shall be submitted by the proponent.

xvi. Detailed action plan shall be prepared for maintenance of air pollution control equipment for existing, under construction and proposed units and shall be incorporated in the EIA/EMP report.

xvii. Details of Ash management plan as per MoEF&CC notification dated 31/12/2021 & its subsequent amendment for the proposed project shall be submitted. MoU signed for ash utilization with companies shall be submitted.

xviii. Action plan for dry ash collection system (Bottom ash and Fly ash) shall be submitted.

xix. Action plan for disposal of ash through High Concentration Slurry Disposal (only in emergency conditions) shall be submitted.

xx. Proper protection measures like high-density polyethylene (HDPE) lining, appropriate height of bund and adequate distance between the Ash Pond and water body (minimum 60 meters) etc. shall be planned to reduce the possibility of mixing leachate with any freshwater body for ash pond. A high-density Slurry disposal plan shall be prepared. PP shall submit the study of stability and life of existing ponds.

xxi. Pond and ground water quality (10 locations within 2 km.radius of the plant boundary) shall be studied, and report be submitted along with EIA/EMP. Action plan for Ground water monitoring stations on all hotspots like schools/hospitals within 2 km. radius of the plant boundary be submitted. Baseline Study for Heavy metals in Groundwater, Surface water and soil to be carried out and incorporated in EIA/EMP report.

xxii. Details pertaining to water source, treatment and discharge should be provided.

xxiii. PP shall provide the details of wastewater treatment facilities to be installed within its capacity, timeline, and budget.

xxiv. Project Proponent to conduct Environmental Cost Benefit Analysis for the project in EIA/EMP Report.

xxv. An action plan shall be prepared for Water shed development within 10 km. radius of the plant boundary in consultation with reputed government institution and incorporated in EIA/EMP report.

xxvi. PP should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total material handled) and steps to be taken for reduction of the same. The year-wise target for reduction in the specific diesel consumption needs to be submitted. PP shall also explore the possibility of using e-vehicles/LNG/CNG-based machinery and trucks for the operation and transportation of Coal and ash and submit an implementation strategy.

xxvii. PP shall provide the details of transportation of fly ash through fly ash bulkers from the plant, transportation route, action plan regarding spillages of fly ash if any on transportation route, etc. Further, carry out a traffic study for at least one month and provide the impact of transportation along with the mitigation measures.

xxviii. PP shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.

xxix. Details on renewable energy (solar plant) proposed to be installed as energy conservation measures and action plan for the same shall be submitted.

xxx. The input parameters for the AAQ modelling and the influence of various combinations of these on the AAQ must be reported in the EIA/EMP Report. In addition to the Wind Rose diagram collected for one season during the preparation of the EIA report, wind rose diagram for all seasons must be provided using secondary data from sources such as IMD/CPCB etc.

xxxi. Project proponent shall take all necessary steps to control the Air Quality and take additional mitigation measures for proposed TPP to maintain the Ambient Air Quality values within the limits. The action plan regarding maintaining ambient quality standards (Time weighted average for 24 hours and Annual both) be submitted. Further, project proponent shall submit an undertaking to abide by the provisions of the notification number G.S.R 465 (E) dated 11/07/2025 related to SO2 emission norms, as amended, and any subsequent amendment there of pursuant to the outcome of study carried out by CPCB in this regard.

xxxii. Details of air pollution control devices to be installed in the proposed 2x800 MW TPP (Phase-III) along with its maintenance schedule shall be incorporated in EIA/EMP report.

xxxiii. Carbon emission due to all TPP units in premises and allied carbon sequestration/ carbon offsetting plan be submitted.

xxxiv. PP is advised to implement the *'Ek Ped Maa Ke Naam'* Campaign, which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than green belt development. An action plan in this regard shall be submitted.

[B] Disaster Management

i. A Disaster Management Plan shall be prepared and incorporated in the EIA/EMP report.

[C] Socio-economic study

i. Public Health Action Plan including the provisions for drinking water supply for the local population shall be in the EIA/EMP Report. The status of the existing medical facilities in the project area shall be discussed. Possibilities of strengthening of existing medical facilities, construction of new medical infrastructure etc. will be explored after assessing the needs of the labour force and local populace.

ii. Public consultation (Public Hearing and Written submission) shall be conducted as per the provisions of EIA Notification, 2006 and as amended. As per the Ministry's OM dated 30.09.2020, to address the concern raised during the Public Hearing, the Project Proponent is required to submit the detailed activities proposed with year wise budgetary provision (Capital and recurring) for 5 years. Activities proposed shall be part of EMP. Tentative no. of project affected families (if any) shall be identified and accordingly appropriate Rehabilitation &Resettlement plan shall be prepared. The recommendation Socio-economic study may also be considered while planning the activities & budget.

iii. A need based Social Impact Assessment Study shall also be carried out and an action plan on its recommendations may also be submitted with budgetary provisions.

iv. Demographic details and land use change details within 10 km area shall be submitted.

v. The PP shall submit a detailed plan for providing solar light facilities, sanitation, drinking water, and plantation within the premises of five nearest schools.

[D] Miscellaneous

i. Plot the wind rose diagram using the Typical Meteorological Year (TMY) data for the period considered for the study. The monitoring units shall be deployed in the field based on the coverage area ratio and direction of the wind. A mathematical model shall be developed for the local site rather than using the standard model available in software for both air & water quality modelling.

ii. PP shall conduct a risk assessment study by the national/reputed Institute and submit along with the EIA/EMP reports.

iii. PP shall align its activities to one/few of the Sustainable Development Goals (SDG) and start working on the mission of net zero by 2050. PPs shall update the same to the EAC.

iv. PP shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.

v. Detailed description of all the court cases along with its current status shall be submitted.

vi. PP should provide in the EIA Report details of all the statutory clearances, permissions, no objection certificates, consents etc. obtained for this project under various Acts, Rules and regulations shall be submitted. Further, all the permissions/MoUs obtained for this project shall be revalidated and submitted along with the EIA/EMP report.

vii. The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs, which will analyse the samples.

viii. PP should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of persons to be engaged for the implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.

ix. PP should submit the year-wise, activity wise and time-bound budget earmarked for EMP, occupational health surveillance, and activities proposed to address the issues raised during Public Hearing. The capital and recurring expenditure to be incurred needs to be submitted.

x. Activities shall be prepared based on the issues arise during public hearing conducted and fresh written submission with defined timeline and budgetary provisions.

xi. Aerial view video of project site and coal transportation route proposed for this project shall be recorded through drone and be submitted.

xii. The PP should ensure that only NABET-accredited consultants shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that the accreditation of the consultant is valid during the collection of baseline data, preparation of EIA/EMP report and the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and the PP and consultant are fully accountable for the same.

xiii. PP should provide in the EIA Report details of the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline after the grant of EC.

xiv. All the certificates viz. involvement of Forestland, distance from the protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.

xv. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025 and 08.10.2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12.11.2024 through which projects requiring prior EC were exempted from requirement of CTE.

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ANNEXURE-I

LIST OF PARTICIPANTS OF EAC (THERMAL) IN 33RD MEETING HELD ON 19TH NOVEMBER, 2025 THROUGH PHYSICAL MODE

S. No.	Name & Address	Role	19.11.2025
1.	Shri Inder Pal Singh Matharu, (I.F.S. Retd.)	Chairman	Present
2.	Shri Lalit Kapur	Member	Present
3.	Dr. Umesh Jagannathrao Kahalekar	Member	Present
4.	Dr. Santosh Kumar Hampannavar	Member	Present (VC)
5.	Shri Savalge Chandrasekhar	Member	Absent
6.	Shri K. B. Biswas	Member	Present
7.	Prof. Shyam Shanker Singh	Member	Present
8.	Dr. Vinod Agrawal	Member	Present
10.	Shri Mahi Pal Singh, Chief Engineer	Representative of Central Electricity Authority (CEA)	Present
11.	Shri Harmeet Sawhney, Scientist 'E'	Representative of Indian Meteorological Department (IMD)	Absent
12.	Prof. R M Bhattacharjee	Representative of IIT/ISM Dhanbad	Present
13.	Shri Prasoon Gargava, Scientist 'F'	Representative of Central Pollution Control Board	Present
13.	Shri Sundar Ramanathan	Scientist 'F' & Member Secretary	Present
14.	Dr. Rajesh Prasad Rastogi	Scientist 'D'	Present

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ANNEXURE-II

APPROVAL OF CHAIRMAN – EAC

11/27/25, 12:48 PM (292 unread) - Inbox - Mail (rp.rastogi@gov.in)

Fwd: Re: ZERO DRAFT MOM OF 33 EAC THERMAL HELD ON 19/11/2025

Sundar Ramanathan <r.sundar@nic.in>
Thu, 27 Nov 2025 12:28:51 PM +0530 INBOX
"RAJESH PRASAD RASTOGI" <rp.rastogi@gov.in>
TLS Learn more

========== Forwarded message ==========
From: Inderpal Singh Matharu <matharu0204@gmail.com>
To: "Sundar Ramanathan"<r.sundar@nic.in>
Date: Thu, 27 Nov 2025 11:44:31 +0530
Subject: Re: ZERO DRAFT MOM OF 33 EAC THERMAL HELD ON 19/11/2025
========== Forwarded message ==========

Dear Sudar ji

I have gone through the final draft MoM of the 33 EAC Thermal held on 19/11/2025 sent by you. In this all the points have been incorporated including amendments done in Zero draft of it. I have done very minor correction in it. I agree with the above Final draft of MoM.
Hence I approve the final MoM of the 33rd EAC- Thermal .

Sincerely yours

Inder Pal Singh Matharu
Chairman
EAC, Coal mining and Thermal power
MoEF&CC
GoI