सत्यमेव जयते

File No: J-13012/118/2009-IA.II(T)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Date **03/07/2026**

To,

Dr Ajay Vikram Singh
M/s. Lalitpur Power Generation Company Limited
Village Mirchwara, Burogaun, Tehsil Mehrauni, Lalitpur, Uttar Pradesh, 284123
E-mail: amitoshverma@lpgcl.com

Subject: **Proposed expansion of Lalitpur TPP by adding 2400 MW (3x800 MW) Coal based Ultra Super Critical Thermal Power Plant to existing 1980 MW (3x660 MW) by M/s. Lalitpur Power Generation Company Limited (LPGCL) located at Villages Mirchwara and Buraugaon, Tehsil Mahroni, District Lalitpur, Uttar Pradesh - Environmental Clearance – regarding**

Sir/Madam,

This is with reference to your proposal number IA/UP/THE/559519/2025 dated 29/11/2025 along with a written submission dated 29.01.2026 and additional information dated 9/03/2026 seeking for grant of Environmental Clearance (EC) under the provisions of the EIA Notification 2006 and as amended thereof for the project mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25A0601UP5454403N
(ii) File No.	J-13012/118/2009-IA.II(T)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(d) Thermal Power Plants
(vi) Sector	Thermal Projects
(vii) Name of Project	Expansion of Lalitpur TPP by adding 2400 (3x800) MW Coal based Ultra Super Critical Thermal Power Plant to Exisitng 1980 (3X660) MW at villages Mirchwara and Buraugaon, Tehsil Mahroni, District Lalitpur Uttar Pradesh by M/s Lalitpur Power Generation Company Ltd.
(viii) Name of Company/Organization	M/s. Lalitpur Power Generation Company Limited

(ix) Location of Project (District, State)	Lalitpur, Uttar Pradesh
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. M/s Lalitpur Power Generation Company Limited has made an online application vide proposal no. IA/UP/THE/559519/2025 dated 29/11/2025 along with copy of EIA/EMP report, Form and certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above.

4. The proposed project activity is listed at item no. 1(d) Under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level and do not attract general conditions of the EIA Notification, 2006. The instant Proposal was earlier considered by the EAC (Thermal) in its 36th meeting held on 22nd January 2026 wherein EAC recommended the proposal for grant of Environmental Clearance subject to stipulation of environmental safeguards. During processing of the proposal. It has been observed in the Ministry that "PP has proposed to reduce the greenbelt from 202 Ha with total sapling of 4,28,000 trees at ToR level to 142 Ha in the expansion proposal citing O.M. dated 29.10.2025. Be explained, as to whether green cover is allowed to be reduced in accordance with the aforesaid O.M. retrospectively". In view of this, proponent was requested to revisit the land details with respect to green belt development and submit the same. Accordingly, proponent submitted the additional information on 09/03/2026 and the same was again placed before the EAC in its 40th meeting held during 19-20th March, 2026. The MoM for the same may be seen using the following web link: https://parivesh.nic.in.

Details submitted by the project proponent

5. The existing project of 1980 (3x660) MW was accorded Environmental Clearance by MoEF&CC vide letter no. J-13012/11/2009. IA. II(T) dated 31.03.2011. Thereafter amendment in EC for change of source of coal from imported to domestic for two units aggregating to 1320 (2x660) MW was issued by MoEF&CC vide letter dated 20.05.2014 and amendment in EC for change in source of coal for Unit – III (1x660 MW) and recurring CSR expenditure was issued by MoEF&CC vide letter dated 30.05.2016. Consolidated Consent to Operate and Authorization for the existing units have been accorded by Uttar Pradesh Pollution Control Board vide letter no. 220384/UPPCB/Jhansi(UPPCBRO)/ CTO/both/Lalitpur/2024 dated 15.12.2024. The validity of Consolidated Consent to Operate and Authorization is up to 31.12.2026.

6. **Implementation status of the EC dated 31/03/2011 and its amendment**:

Configuration	**Capacity (MW)**	**As Per EC dated**	**Implementation Status as on 12.01.2026**	**Production as per CTO**
Environment Clearance for 1980 (3x660) MW	3x660 MW	31.03.2011	Operational	3x660 MW
Amendment in EC for change of source of coal for two units aggregating to 1320 (2x660) MW	2x660 MW	20.05.2014		
Amendment in EC for change in source of coal for Unit – III (1x660 MW) and recurring CSR expenditure	1x660 MW	30.05.2016		

7. **Certified compliance report from Regional Office :** The status of compliance of earlier EC was obtained from Regional Office, MoEF&CC Lucknow, vide File No. IV/ENV/UP/TH-43/324/2011 [E computer No. 157169] dated 30/06/2025 in the name of M/s Lalitpur Power Generation Company Ltd. The Action taken report on the partially/non-complied conditions as reported in the CCR dated 30/06/2025 was submitted to Regional Office, MoEF&CC, Lucknow vide letter no. LPGCL/EC comp/Jul/25-1 dated 12.07.2025. The ATR was examined and the same was forwarded to the

Ministry by Regional Office vide letter number IV/ENV/UP/TH-43/324/2011 dated 20.11.2025.

8. **Compliance to MoEF&CC Notification dated 11/07/2025 regarding SO2 emission norms**

i. Categorization details of existing TPP as per CPCB communication dated 23/06/2022 - Category –C
ii. Sulfur content of the coal fired in the boiler: <0.5%
iii. Status of FGD installation:
Existing unit: Not installed. One 275 meter height RCC Chimney with tri-flue has been provided as per notification number GSR 742 (E) dated 30/08/1990
Expansion unit: Not proposed. One 275 meter height RCC Chimney with tri-flue will be provided as per notification number GSR 742 (E) dated 30/08/1990.

9. The detail of the ToR obtained for expansion of TPP from 1980 MW to 4380 MW is furnished as below:

Proposal No with date	Consideration	Details	Date of accord	ToR Validity
IA/UP/THE/518390/2025 dated 13/01/2025	20th meeting of EAC held on 24.02.2025	Terms of Reference	24.03.2025	23.03.2029

***Note**: As per the ToR accorded, total land area was 635 Ha [Existing: 513.4 Ha; Expansion: 121.6 Ha]. However, in the application submitted for EC total land is reduced to 574.62 Ha [Existing: 513.4 Ha; Expansion: 61.22 Ha]*

10. **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 requirement is 574.62 Ha
Existing: 513.40 Ha;
Proposed expansion: 61.22 Ha
(Private Land: 55.06 Ha and Govt.land: 6.156 Ha)
The additional land of 61.22 Ha inter-alia includes 54.33 Ha for proposed expansion and 6.89 Ha for railway line connecting the plant site.</td><td>Land use of existing land: Industrial purpose
Land use of proposed land: Agricultural
Consent Letter for 55.06 Ha land showing the intent of the land owners/ Gram Panchayat to sell the said private land has been received. Consent for 6.156 Ha land has been obtained from District Collectorate wherein ADM vide letter dated 06/01/2026 asked the project proponent to submit the resumption proposal/report of the affected village society's lands under the provisions mentioned in the Uttar Pradesh Revenue Code, 2006.</td></tr>
<tr><td>2</td><td>Land use break-up</td><td colspan="2"><table>
<tr><th rowspan="2">S. No.</th><th rowspan="2">Particular</th><th colspan="3">Area (in Ha.)</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>1</td><td>Main Plant</td><td>18.2</td><td>19.46</td><td>37.66</td></tr>
<tr><td>2</td><td>Coal Storage & handling</td><td>82.84</td><td>32.41</td><td>115.25</td></tr>
<tr><td>3</td><td>Switchyard</td><td>34.38</td><td>10.16</td><td>44.54</td></tr>
<tr><td>4</td><td>Greenbelt*</td><td>202.74</td><td>0*</td><td>160.0*</td></tr>
</table></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><th rowspan="2">S. No.</th><th rowspan="2">Particular</th><th colspan="3">Area (in Ha.)</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>5</td><td>water system</td><td>21.84</td><td>21.89</td><td>43.73</td></tr>
<tr><td>6</td><td>Water reservoir</td><td>64.61</td><td>0</td><td>64.61</td></tr>
<tr><td>7</td><td>Miscellaneous</td><td>29.5#</td><td>10.49</td><td>39.99</td></tr>
<tr><td>8</td><td>Ash disposal</td><td>41.29</td><td>20.66</td><td>61.95</td></tr>
<tr><td></td><td>Total</td><td>513.4</td><td>54.33</td><td>567.73</td></tr>
<tr><td></td><td>Railway line connecting the plant site</td><td>Nil</td><td>6.89</td><td>574.62</td></tr>
</table>
Note:
• No involvement of grazing land in the expansion area.
• ROU for water pipeline will be undertaken after obtaining necessary permissions from concerned authority for water allocation
*Note – The area earmarked for green belt development for existing project is 202.74 Ha which comprises of 170 Ha (Tree Plantation – 108.68 Ha. + Landscape Area – 61.32 Ha) of area under green belt development and 32.74 Ha of area under vacant as on January, 2026. In the green belt developed area of 170 Ha, about 10 no. of trees is proposed to be removed and 140 nos of trees will be uprooted and translocated/ transplanted in the additional land acquired for the proposed expansion project.
After the proposed expansion, the existing greenbelt area will be adjusted to 160 Ha including 18 Hectare area identified in the existing available land situated near existing coal yard area (13.5 Ha) and existing BTG area (4.5 Ha), which will be developed under greenbelt area, totalling to 160 Ha. Besides, densification of existing plantation within plant premises will also be carried out through Miyawaki technique. In addition to this, green belt will be developed in another 50 Ha of degraded forest land located 8.8 km distance from the project site through Divisional Director, Social Forestry, Lalitpur at Bar Forest Range with a time frame of 10 years over a financial out lay of Rs. 2.5 crores. In this regard, requisite consent has been obtained from the State Forest Department vide letter dated 09.12.2025.
Total Greenbelt after Proposed Expansion Project: 210 Ha (Within Premises = 160 Ha + Outside Premises 50 Ha).
</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 & 18/12/2025</td><td>513.4 Ha land is already in the possession of Lalitpur Power Generation Company Limited.
The additional land under acquisition for the proposed expansion is 61.22 Ha and acquisition status is summarized as below:
•Consent Letter for 55.06 Ha land showing the intent of the land owners/ Gram Panchayat to sell the said private land has been received.
•Consent for 6.156 Ha land has been obtained from District Collectorate wherein ADM vide letter dated 06/01/2026 asked the project proponent to submit the resumption proposal/report of the affected village society's lands under the provisions mentioned in the Uttar Pradesh Revenue Code, 2006.</td><td>Consent letters have been submitted along with EC application.</td></tr>
<tr><td>4.</td><td>Existence of habitation & involvement of R&R, if any.</td><td><u>Project site</u>: Nil
Study Area:
<table>
<tr><th>Habitation</th><th>Distance</th><th>Direction</th></tr>
<tr><td>Mirchwara</td><td>0.02 km</td><td>SSW</td></tr>
<tr><td>Buraugaon</td><td>0.8 km</td><td>North</td></tr>
<tr><td>Udaypura</td><td>1.3 km</td><td>ESE</td></tr>
</table>
</td><td>Status of R&R. – There is no R&R is involved for the proposed expansion. However, land will be acquired & compensation will been paid as per "Land Acquisition Rehabilitation</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></td><td>and Resettlement (Right to Fair Compensation and Transparent Rights) Act, 2013" and rules set by the district administration.</td></tr>
<tr><td>5.</td><td>Existence of school and Hospitals if any</td><td>A. School
Project Site – None
Study area
<table>
<tr><th>School</th><th>Distance</th><th>Direction</th></tr>
<tr><td>Govt. Medium school, Tauriya (Mirchwara)</td><td>0.30</td><td>SSW</td></tr>
<tr><td>Govt. Medium school, Mirchwara</td><td>0.50</td><td>ESE</td></tr>
<tr><td>Govt. Primary school, Burogaon</td><td>0.60</td><td>NW</td></tr>
<tr><td>Govt. Primary school, Biryana (Burogaon)</td><td>0.80</td><td>WNW</td></tr>
<tr><td>Govt. Medium school, Burogaon</td><td>1.9</td><td>NE</td></tr>
<tr><td>Govt. High school, Nagara</td><td>2.0</td><td>WSW</td></tr>
<tr><td>Govt. Medium school, Nagara</td><td>2.0</td><td>WSW</td></tr>
<tr><td>Govt. Medium school, Udaipura</td><td>2.0</td><td>ENE</td></tr>
</table>
B. Hospital
Project Site – None
Study area
<table>
<tr><th colspan="3">Health Facilities</th></tr>
<tr><td>Pandey House –General hospital Gadyana</td><td>9.9</td><td>West</td></tr>
<tr><td>CHC Bar Lalitpur – Hospital Bar</td><td>8.0</td><td>NW</td></tr>
</table></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>LONGITIDE</th></tr>
<tr><td>1</td><td>24°48'22.71"N</td><td>78°38'10.63"E</td></tr>
<tr><td>2</td><td>24°48'21.44"N</td><td>78°38'17.48"E</td></tr>
<tr><td>3</td><td>24°48'23.71"N</td><td>78°38'18.49"E</td></tr>
<tr><td>4</td><td>24°48'22.58"N</td><td>78°38'21.22"E</td></tr>
<tr><td>5</td><td>24°48'24.18"N</td><td>78°38'22.16"E</td></tr>
<tr><td>6</td><td>24°48'13.82"N</td><td>78°38'42.40"E</td></tr>
<tr><td>7</td><td>24°48'19.35"N</td><td>78°38'46.80"E</td></tr>
<tr><td>8</td><td>24°48'16.04"N</td><td>78°39'0.76"E</td></tr>
<tr><td>9</td><td>24°48'15.70"N</td><td>78°39'3.32"E</td></tr>
<tr><td>10</td><td>24°48'18.36"N</td><td>78°39'4.21"E</td></tr>
<tr><td>11</td><td>24°48'18.52"N</td><td>78°39'27.74"E</td></tr>
<tr><td>12</td><td>24°48'7.22"N</td><td>78°39'28.75"E</td></tr>
<tr><td>13</td><td>24°48'5.45"N</td><td>78°39'35.06"E</td></tr>
<tr><td>14</td><td>24°47'46.08"N</td><td>78°39'33.72"E</td></tr>
<tr><td>15</td><td>24°47'16.03"N</td><td>78°39'40.49"E</td></tr>
<tr><td>16</td><td>24°47'16.08"N</td><td>78°39'52.08"E</td></tr>
</table></td><td></td></tr>
</table>

S. No.	Particulars	Details	Remarks

17	24°47'13.25"N	78°39'52.74"E
18	24°47'12.89"N	78°39'41.20"E
19	24°47'6.77"N	78°39'35.80"E
20	24°47'2.79"N	78°39'40.31"E
21	24°46'51.55"N	78°39'38.61"E
22	24°46'45.48"N	78°39'28.55"E
23	24°46'42.63"N	78°39'13.47"E
24	24°46'47.74"N	78°39'5.61"E
25	24°46'47.02"N	78°38'53.51"E
26	24°46'55.18"N	78°38'55.20"E
27	24°47'0.33"N	78°39'7.28"E
28	24°47'6.02"N	78°38'50.76"E
29	24°47'13.54"N	78°38'7.32"E
30	24°47'14.23"N	78°38'7.65"E
31	24°47'10.11"N	78°38'38.79"E
32	24°47'25.21"N	78°38'38.39"E
33	24°47'25.60"N	78°38'4.41"E
34	24°47'43.26"N	78°37'59.48"E
35	24°47'48.17"N	78°38'3.16"E
36	24°47'56.99"N	78°37'57.64"E
37	24°47'54.25"N	78°38'5.91"E
38	24°47'58.67"N	78°38'8.27"E
39	24°47'59.00"N	78°38'22.49"E
40	24°48'3.29"N	78°38'22.60"E
41	24°48'3.18"N	78°38'11.13"E

B. Ash pond

S.NO.	LATITUDE	LONGITUDE
1	24°46'47.65"N	78°39'3.48"E
2	24°46'46.31"N	78°38'59.67"E
3	24°46'46.34"N	78°38'56.07"E
4	24°46'48.41"N	78°38'54.69"E
5	24°46'53.69"N	78°38'56.24"E
6	24°46'55.15"N	78°39'4.05"E
7	24°46'57.62"N	78°39'7.77"E
8	24°47'3.17"N	78°39'10.04"E
9	24°47'3.78"N	78°39'20.84"E
10	24°47'4.06"N	78°39'31.92"E
11	24°47'2.93"N	78°39'33.68"E
12	24°47'1.44"N	78°39'33.28"E
13	24°46'59.80"N	78°39'30.09"E
14	24°47'1.61"N	78°39'27.61"E
15	24°47'2.00"N	78°39'25.95"E
16	24°47'1.44"N	78°39'24.93"E
17	24°47'1.67"N	78°39'21.46"E
18	24°46'57.26"N	78°39'20.28"E
19	24°46'55.54"N	78°39'15.83"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>20</td><td>24°46'53.84"N</td><td>78°39'13.44"E</td></tr>
<tr><td>21</td><td>24°46'54.25"N</td><td>78°39'9.61"E</td></tr>
<tr><td>22</td><td>24°46'52.60"N</td><td>78°39'5.98"E</td></tr>
<tr><td>23</td><td>24°46'49.62"N</td><td>78°39'3.64"E</td></tr>
</table>
</td><td></td></tr>
<tr><td>7.</td><td>Elevation of the project site</td><td>•Minimum site elevation is 338 m AMSL
•Maximum site elevation is 360 m AMSL
•Average site elevation is 348 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 expansion project.</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><u>Project site</u>
A Stream flowing in SSE corner of project site which will not be disturbed.
Study area:
<table>
<tr><th>S. No.</th><th>Particulars</th><th>Distance (km)</th><th>Direction</th></tr>
<tr><td colspan="4">WATER BODIES</td></tr>
<tr><td>1</td><td>Utari Nadi</td><td>0.05</td><td>E</td></tr>
<tr><td>2</td><td>Sajnam Nadi</td><td>1.65</td><td>NNW</td></tr>
<tr><td>3</td><td>Manpasar Nala</td><td>3</td><td>NE</td></tr>
<tr><td>4</td><td>Billa Tal</td><td>3.6</td><td>SSE</td></tr>
<tr><td>5</td><td>Dunatar Nala</td><td>4.2</td><td>W</td></tr>
<tr><td>6</td><td>Banpur Distributary</td><td>6.9</td><td>SE</td></tr>
<tr><td>7</td><td>Patariya Nala</td><td>7.7</td><td>N</td></tr>
<tr><td>8</td><td>Bara Tal</td><td>8.1</td><td>WNW</td></tr>
<tr><td>9</td><td>Bijuriya Nala</td><td>8.15</td><td>NE</td></tr>
<tr><td>10</td><td>Pathajhor Nala</td><td>8.2</td><td>NE</td></tr>
<tr><td>11</td><td>Kanar Nala</td><td>9</td><td>SE</td></tr>
<tr><td>12</td><td>Naya Tal</td><td>9.3</td><td>SE</td></tr>
<tr><td>13</td><td>Naya Taal</td><td>9.3</td><td>WNW</td></tr>
<tr><td>14</td><td>Lalitpur Main Canal</td><td>9.5</td><td>WNW</td></tr>
<tr><td>15</td><td>Khailar Nala</td><td>9.6</td><td>SE</td></tr>
<tr><td>16</td><td>Jamni Nadi</td><td>9.9</td><td>NE</td></tr>
<tr><td>17</td><td>Karltoran Nala</td><td>9.9</td><td>ENE</td></tr>
<tr><td>18</td><td>Check Dam*</td><td>0.35</td><td>WEST</td></tr>
<tr><td>19</td><td>Utari Dam*</td><td>1.0</td><td>SSE</td></tr>
<tr><td>20</td><td>Bhaoni Dam*</td><td>6.0</td><td>NNE</td></tr>
<tr><td>21</td><td>Kachnoda Dam*</td><td>6.30</td><td>SW</td></tr>
<tr><td>22</td><td>Ramsah Sagar*</td><td>8.0</td><td>NW</td></tr>
<tr><td colspan="4">Source-SOI Toposheet and *Google Earth Imagery</td></tr>
</table>
</td><td></td></tr>
<tr><td>10.</td><td>Archaeological sites monuments/ historical temples etc.</td><td>None in 10 km radius study area.</td><td></td></tr>
<tr><td>11.</td><td>Existence of ESZ/ESA/ national park/</td><td>No wildlife sanctuary, ESZ, Biosphere reserve, National Park in 10 km radius area. Hence NBWL clearance is not applicable.</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>wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area</td><td>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>Mirchwara R. F.</td><td>0.65</td><td>S</td></tr>
<tr><td>2</td><td>Billa R.F.</td><td>4.6</td><td>SSE</td></tr>
<tr><td>3</td><td>Kachnauda R.F.</td><td>6.1</td><td>WSW</td></tr>
<tr><td>4</td><td>Gangchari R.F.</td><td>6.9</td><td>SSW</td></tr>
<tr><td>5</td><td>Tori R.F.</td><td>7.0</td><td>WNW</td></tr>
<tr><td>6</td><td>Pah East R.F</td><td>7.7</td><td>SSE</td></tr>
<tr><td>7</td><td>Bar No. 1 R.F</td><td>8.8</td><td>NW</td></tr>
<tr><td>8</td><td>Bar No. 2 R.F</td><td>10.0</td><td>NNW</td></tr>
</table></td><td></td></tr>
<tr><td>12.</td><td>Facility envisaged in CRZ area (Only for coastal power plant)</td><td>Nil and 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><u>Involvement of CPA/SPA:</u> Nil
<u>Proximity to CPA/SPA:</u> - Nil
No CPA/SPA as declared by CPCB lies within 10 km radius area. The nearest CPA is in Kanpur ~ 250 km from project site.</td><td>.</td></tr>
</table>

11. 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.	1980 (3X660) MW	2400 (3x800) MW	4380 MW	Existing: Supercritical Expansion: Ultra Supercritical

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

Details	Fuel requirement (MTPA)	Source	Distance from site (Kms)	Mode of Transportation	Fuel characteristics (Worst case scenario)	Linkage document
Existing TPP	8.51 Million MTPA	Domestic coal from subsidiaries of M/s Coal India Limited (CIL)	About 800 Km	By Rail	Ash content-33%-40% Sulphur content-0.5% (at 85% PLF, GCV 3200 Kcal /Kg)	--
Proposed TPP	12.4 Million MTPA		About 800 Km	By Rail	Ash content-40% Sulphur content-0.5% GCV 3200 Kcal /Kg	--
LDO	5000 KL per annum	Nearby refinery/ depot (IOCL / BPCL / HPCL / Nayara etc.)	10	Road	Low sulphur content	--

13. **Water requirement**: The existing Water requirement is 35.72 MCM/year (40 cusecs) sourced from Rajghat Canal and Kachnoda Dam. In this regard, permission has already been obtained from Irrigation Department vide letter no संख्या-1426/13-27-सि0-4-01 (डब्ल्यू) / 2008 dated 21.06.2013 for supply of 71.44 MCM/year (80 cusecs). The total water requirement for the proposed project is estimated as 44.68 MCM/year (6000 m3/hr or 50 cusecs). Water requirement for the proposed expansion shall be met from existing allocation of 80 cusecs and only 10 cusecs will be required from Kachnoda Dam/ Shahjad Dam/ Bhaoni Dam located at 10 km, 25 Km, and 5 Km, respectively from the project site. The approval for withdrawal of water of 10 cusecs from Kachnoda Dam/ Shahjad Dam/ Bhaoni Dam is yet to be obtained. The water will be transported to the plant site through pipeline. The specific water consumption for the power plant will be 2.5 m3/MWhr.

14. **Power requirement**: Existing power requirement of ~105 MW is obtained from self-generation. The power requirement for the proposed project is estimated as 117 MW, which will be obtained from the self-generation.

15. **Baseline Environmental Studies**

Period	December ' 2024 to February 2025	Additional study (if any)
AAQ parameters at 11 Locations (min and max)	PM_{10}: 45.1 µg/m^3 – 64.9 µg/m^3 PM2.5 : 20.1 µg/m^3 – 29.9 µg/m^3 SO_2: 1.5 µg/m^3 – 9.9 µg/m^3 NOx: 1.8 µg/m^3 – 12.8 µg/m^3 CO: 0.115 mg/m^3 – 0.458mg/m^3 The values of Pb, Ni, O_3, As, Hg, C_6H_6, NH_3, BaP were found to be Below detection limit.	
Incremental GLC level	PM_{10} = Max. GLC: 0.519 µg/m^3 $PM_{2.5}$= Max. GLC: 0.135 µg/m^3 SO_2 = Max GLC: 10.86 µg/m^3 NOx = Max GLC: 4.04 µg/m^3	
Ground water quality at 14 locations	pH: 7.33 to 7.61, total Hardness (as CaCO3): 245 mg/lit – 396 mg/lit; Chloride: - 89 mg/liter to 374 mg/liter, Fluoride – 0.13 mg/L to 0.20 mg/L Heavy metals like Copper (as Cu) - BLQ(LOQ-0.01), Lead (as Pb) - BLQ (LOQ- 0.005), Cadmium (as Cd) - BLQ(LOQ-0.001), Arsenic (as As) - BLQ (LOQ-0.001) and Mercury (as Hg)- BLQ(DL-0.0005).	
Surface water quality at 09 locations	pH 7.24 to 7.81, Dissolved Oxygen: 4.8 to 5.3 mg/lit; BOD: 2.2 mg/L to 2.6mg/L , COD: 4 mg/L to 6 mg/L	
Effluent generation details and its treatment	Wastewater generation from TPP about 7500 KLD Mode of treatment & reuse –: WTP is proposed to treat raw water to produce high-purity water essential for steam generation and cooling systems. An ETP (Capacity 7500 KLD) based on physio-chemical treatment. The treated wastewater will be utilized for plant consumptive requirements and for green belt development. The proposed plant will adopt a Zero Liquid Discharge (ZLD) mechanism, wherein all wastewater generated will be treated and recycled within the premises. This ensures no liquid effluent is released into the external environment, thereby minimizing water pollution and conserving water resources. Domestic wastewater generation – 80 KLD Domestic wastewater will be treated through STP of 165 KLD capacity based on MBBR technology. Mode of treatment & reuse - Treated water will be utilized for greenbelt and plantation purpose.	
Noise levels Leq (Day and Night) at 11 locations	The Leq values for day time was observed to be 44.4 to 62.6 dB (A), while during night time 36.2 to 56.5 dB (A).	

<table>
<tr><th>Period</th><th>December ’ 2024 to February 2025</th><th>Additional study (if any)</th></tr>
<tr><td>Traffic assessment study findings</td><td>
<table>
<tr><th>Road</th><th>Volume (in PCU/Day)</th><th>Capacity (in PCU/Day)</th><th>Existing V/C Ratio</th><th>LOS</th><th>Performance</th></tr>
<tr><td>Hamirpur Chungi Highway</td><td>V: 859</td><td>C: 10000</td><td>0.1173</td><td>A</td><td>Excellent</td></tr>
</table>
PCU load after proposed project:
<table>
<tr><th>Road</th><th>Existing LOS</th><th>Increased V</th><th>C</th><th>V/C</th><th>Modified LOS</th></tr>
<tr><td>Hamirpur Chungi Highway</td><td>A ‘Excellent’</td><td>1173 + 819 = 1992</td><td>10,000</td><td>0.199 say 0.20</td><td>A ‘Excellent’</td></tr>
</table>
Conclusion: The level of service will be A after including additional traffic due to the proposed expansion project.
</td><td></td></tr>
<tr><td>Soil Quality at 10 Locations</td><td>pH range 7.50 to 7.84 ; Electrical conductivity (EC); 224 to 345 µS/cm ; calcium content: 260 to 380 mg/kg; potassium: 152 to 274 mg/kg; Phosphorous: 9.5 to 14.3 mg/kg; Magnesium: 94 to 185 mg/kg; Organic Matter: 0.74% to 1.08 %</td><td></td></tr>
<tr><td>Flora and fauna</td><td>As per revised categorization given in the Wild Life (Protection) Amendment Act, 2022, total 19 Schedule I Species found in the buffer zone during field survey and secondary sources.

The List of Flora & Fauna is duly authenticated by Social Forestry department, Lalitpur vide letter no. 3890/13-1dated: 04/06/2025

A Wildlife Conservation & Management Plan (WLCP) has been prepared and submitted to Divisional Forest Officer on 02/12/2025 and approval is yet to be obtained.</td><td></td></tr>
<tr><td>Hydrogeology study</td><td>Recommendation of the Hydrogeology study
The area is runoff-rich, with good potential for surface water harvesting and storage augmentation.
Groundwater is available but limited due to hard rock setting; open wells and shallow borewells are most effective.
No signs of groundwater contamination were reported.
Hydrological conditions remain suitable for the proposed expansion, with substantial surface water resources and moderate groundwater dependence
Action plan:
The TPP is based on ZLD – No discharge out side the plant boundary.
The groundwater usage is not proposed for the project, and the artificial recharge is recommended which in overall has positive impact on the groundwater hydrologic regime of the area.</td><td>Consultant details: Institute for Resource Analysis and Policy (IRAP), Hyderabad, and vetted by Associate Professor (Institute of Environmental Studies), Kurukshetra University</td></tr>
<tr><td>Impact study on biodiversity and aquatic ecology</td><td>
<table>
<tr><th>S. No.</th><th>Component</th><th>Key Findings / Issues</th><th>Recommended Action</th></tr>
<tr><td>1</td><td>Habitat Conservation</td><td>Fragmented scrub, agricultural land, seasonal water bodies</td><td>Extend and strengthen greenbelts with native species; protect natural drainage lines and wetlands</td></tr>
</table>
</td><td>Department of Environmental Science, Maharaja Ganga Singh University, Bikaner</td></tr>
</table>

<table>
<tr><th>Period</th><th>December ’ 2024 to February 2025</th><th>Additional study (if any)</th></tr>
<tr><td></td><td>
<table>
<tr><th>S. No.</th><th>Component</th><th>Key Findings / Issues</th><th>Recommended Action</th></tr>
<tr><td>2</td><td>Greenbelt Development</td><td>192 Ha</td><td>Continue plantation using indigenous species; maintain 3-tier plantation with ~10 m width</td></tr>
<tr><td>3</td><td>Schedule-I Mammals</td><td>8 Schedule-I mammalian species recorded</td><td>Maintain habitat corridors; restrict night-time disturbance; create water holes near forest edges</td></tr>
<tr><td>4</td><td>Schedule-I Birds</td><td>6 Schedule-I avian species; collision risk</td><td>Install bird diverters on transmission lines; restrict high-noise activity during breeding/migration seasons</td></tr>
<tr><td>5</td><td>Schedule-I Herpetofauna</td><td>5 reptile species; risk from vehicles & water outlets</td><td>Develop artificial wetlands; maintain SOPs for snake rescue; screen wastewater outlets</td></tr>
<tr><td>6</td><td>Noise & Light Pollution</td><td>Potential disturbance to nocturnal fauna</td><td>Use downward-directed lighting; limit high-decibel operations near habitats at night</td></tr>
<tr><td>7</td><td>Collision & Electrocution Risk</td><td>Transmission lines and tall structures</td><td>Install reflectors/diverters; insulate exposed transformers in sensitive areas</td></tr>
<tr><td>8</td><td>Monitoring & Research</td><td>Need for long-term biodiversity tracking</td><td>Establish Bird Monitoring Cell; conduct biannual fauna surveys (post-monsoon & winter)</td></tr>
<tr><td>9</td><td>Anti-Poaching & Rescue</td><td>Risk to Schedule-I species</td><td>Coordinate with Forest Dept.; support patrolling with camera traps, GPS, rescue equipment</td></tr>
<tr><td>10</td><td>Community Participation</td><td>Local interface with wildlife</td><td>Awareness programs; bilingual signboards; community reporting of wildlife sightings</td></tr>
</table>
</td><td></td></tr>
<tr><td>Risk assessment study</td><td colspan="2">The existing storage facilities of LDO and HFO will be used and proposed expansion project does not involve any augmentation in capacities of existing LDO and HFO tanks, therefore risk assessment, hazard analysis has not been carried out for LDO and HFO storage.
For Coal
Risk Reduction Measures (Storage + Rail Transportation)
Coal yard (stockpile) – prevention of spontaneous heating/fire
Stockpile management: limit residence time, avoid re-handling that creates voids
Compaction & layering; avoid steep slopes; maintain drainage
Hotspot monitoring: thermal camera/drone/portable IR; temperature probes at depth (risk-based frequency)
Dedicated firefighting access, dozers available 24×7 for pile breakup/isolation
Fire water hydrants/monitors around yard; emergency foam/wetting agent strategy (as per design) Dust control (key compliance + safety)</td></tr>
</table>

Period	December ' 2024 to February 2025	Additional study (if any)
	Water mist/fog cannons at transfer points, crusher house, unloading points; sprinkling on roads Enclosures + extraction at crushers/transfer points where feasible Housekeeping audits and dust accumulation limits to be followed. Adequate dust extraction/suppression in coal handling/material transfer points.	

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

S. No.	Waste type	Source	Quantity Generated (TPA)	Management & Disposal
1.	Used / Spent Oil (Cat.)	Plant Operation	70	Registered Recyclers / Preprocessor with SPCB
2.	Waste or residues containing oil (Cat.)	Plant Operation	10	Send to authorized Recyclers
3.	Empty Barrels/ containers/ liners contaminated with hazardous chemicals/ wastes (Cat.)	Plant Operation	10	Send to authorized recyclers
4.	Spent oil Exchange resins containing toxic metals (Cat.)	Plant Operation	10	Captive incineration in boiler as per SOP issued by CPCB
5.	MSW	Workers and landscaping	0.50	Disposed off to municipal corporation waste collection site
6.	Sludge (dry) from water treatment	CPU / ETP	10	TSDF
7.	Sludge (dry) from STP	STP	2	Used as manure within plant premises

17. **Public Consultation**:

The Public hearing was conducted by UPPCB RO, Jhansi on 27.10.2025 at Project Site (villages: Mirchwara and Burogaon), Tehsil Mahroni, District Lalitpur, Uttar Pradesh.

Details of advertisement given	i. Dainik Jagran (Hindi) dated 16.09.2025 ii. Times of India (English) dated 16.09.2025
Date of public consultation	Date: 27.10.2025, Monday, 2:00 PM
Venue	Lalitpur Power Generation Company Limited, Village Mirchwara, Buragaon, Tehsil Mehroni, District Lalitpur
Presiding Officer	i. Shri Ankur Srivastava, Additional District Magistrate (Finance and Revenue), Lalitpur ii. Shri Imran Ali, Regional Officer, Uttar Pradesh Pollution Control Board, Jhansi
Major issues raised	Key suggestions included giving priority in employment to local residents, supporting educational infrastructure (including smart classrooms), and addressing Construction of separate toilets for boys & girls in govt. schools with provision of water supply. Concerns related to environmental protection, pollution control, and proper ash and water management were also noted, with the public expressing expectations that modern technology and safeguards would be adopted.
No. of people attended	1100 and written representation: 58 Nos

Action plan

S. No.	Social EMP Heads	Year wise Expenditure in Rs (Lac)					Total
		1st Year	2nd Year	3rd Year	4th Year	5th Year	
1.	Community infrastructure development	350	350	350	350	150	**1550**
2.	Watershed development initiatives	200	200	200	200	200	**1000**

S. No.	Social EMP Heads	Year wise Expenditure in Rs (Lac)					Total
		1st Year	2nd Year	3rd Year	4th Year	5th Year	
3.	Health & sanitation	100	100	0	0	0	**200**
5.	Education	200	200	150	0	0	**550**
6.	Environment protection & energy conservation	200	200	200	200	200	**1000**
7.	Skill development programs	100	100	50	0	0	**250**
8.	Livelihood Support	50	50	0	0	0	**100**
Total :		**1200**	**1200**	**950**	**750**	**550**	**4650**
Total Amount: Rs. 4650 Lac will be provided under the Social EMP (CER).							

Action plan with physical targets

S. No.	Social EMP Heads	Activities planned	Year wise Expenditure in Rs (Lac)					Total	Recurring per annum
			1st	2nd	3rd	4th	5th		
I	Community infrastructure development	•Playground in 02 villages •Road strengthening works •Cow shelter •Assistance to WRD for Utari dam repair & maintenance works •Water cooler with RO system in Govt. School in village Udaypura, Mirchwara, Burogaon), • Community Hall Construction & Cremation Ground in village Udaypura	350	350	350	350	150	1550	20
II	Watershed development initiatives	Interventions proposed in study area •Check Dams: 28 •Bori-Bandhs: 45 •Gully Plugs: 15 •Nallah embankment	200	200	200	200	200	1000	100
III	Health & sanitation	•Additional mobile dispensary to cover more villages • Increasing visit frequency of mobile dispensary •Medical camps in study area •Sanitation drives in study area	100	100	0	0	0	200	150 (O&M cost of PHC proposed, medical camps & sanitation drive in villages)
IV	Education: Infrastructure development in schools & skill development of teachers	Facilities proposed in govt. schools of nearby villages: ü Computer labs ü Science labs ü Smart classrooms ü Distribution of laptops to meritorious students ü Distribution of sports equipment ü Construction of separate toilets for boys & girls in govt. schools with provision of water supply • Skill development programme for teachers	200	200	150	0	0	550	20

S. No.	Social EMP Heads	Activities planned	Year wise Expenditure in Rs (Lac)					Total	Recurring per annum
			1st	2nd	3rd	4th	5th		
V	Environment protection & energy conservation	• Plantation drive in study area: 7688 trees. • solar street lights in nearby villages • Solar PV plant in Govt. schools in nearby villages	200	200	200	200	200	1000	5.0 (water sprinkling)
VI	Skill development programs (youth & farmers, women centric skill development)		100	100	50	0	0	250	10
VII	Livelihood Support	Equipping farmers with farming equipment	50	50	0	0	0	100	10
Total			**1200**	**1200**	**950**	**750**	**550**	**4650**	**315**
Total Amount: Rs. 4650 Lac has been allocated for Social EMP (CER).									

18. **Project Cost**: Existing capital of project was Rs. 16574.72 Crores. The capital cost of the proposed project is Rs 23230 Crores and the capital cost for environmental protection measures is proposed as Rs. 1319 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 66.05 Crores. The employment generation from the proposed expansion is Permanent: 550 nos, Contractual : 9150 nos. The details of cost for environmental protection measures as follows:

S. No.	Description	Cost in Rs. (Crores)	
		Capital Cost	Recurring Cost
1	Chimney	98	4.9
2	Ash Handling plant including Silos, ESP, Bag filters etc.	658	32.9
3	Dust extraction & suppression system	10	0.5
4	Cooling Tower	322	16.1
5	Water Treatment plant	49	2.45
6	Effluent Treatment System and STP	168	8.4
7	Green Belt & landscaping	10	0.5
8	Environmental Monitoring	1	0.2
9	CEMS, EQMS monitoring system	2	0.1
10	Conservation of Wild life under WLCP (Wild life Conservation Plan)	1	0
A	**Total**	**1319**	**66.05**
B	Cost for Social EMP (CER) encompassing budget for addressing PH issues as per MoEF&CC O.M. dated 30.09.2020	46.50	3.25
Grand Total (A+B)		**1,365.5**	**69.3**

Environmental Management Plan

Air Quality Management	
Construction Phase	Operation Phase
Dust suppression & control measures: • Water sprinkling, • Hard topped roads • wind shield /dust arrest curtains at construction site • Regular sweeping of roads Gaseous emission control measures: • Adequate stack with DG Set	• Measures to control PM: High efficiency ESP, Dust suppression & extraction system • Measures to control NOx: Low NOX Burners with Over Fire Air (OFA) system • Other: ü Tri flue chimney of 275 m height ü Metalled roads for transportation

• PUC Certified vehicles for men & material handling. • Regular maintenance of machinery & equipment.	ü Coal transport through rail upto site & covered conveyor within site ü Regular sweeping of roads, platform & storage area ü Greenbelt development & plantation ü The top surface of coal wagons will be adequately sprinkled to reduce fugitive emissions during transportation. ü Auxiliary fuel transportation will be occasional; hence its impact will be for limited time period. ü Pneumatic conveyor system for fly ash extraction & storage ü Fly ash silos will be provided with bag filter
Noise Management	
Construction Phase	Operation Phase
• Ensuring use of PPEs like ear muffs/ear plugs by workers. • Regular & preventive maintenance of Vehicles and construction machinery. • Ensuring that DG sets are provided with acoustic enclosures and exhaust mufflers and provision of silencers on noise generating machinery; • Greenbelt development & plantation to be undertaken from the construction stage itself.	• Process air blower, pneumatic valves etc., shall be provided with Silencers • Sound attenuation panels will be installed wherever required around noise generating equipment. • All rotating equipment / parts will be well lubricated and provided with enclosures wherever feasible. • Regular & preventive maintenance of all the machinery and equipment. • Regular ambient noise level checks shall be carried out at the site • Use of PPE by workers in high noise area will be ensured • Speed controlled vehicles to ply within plant area. • Greenbelt & plantation in 25% area within plant premises.
Water quality Management	
Construction Phase	**Operation Phase**
• Stockpiles of excavated earth & construction material to have toe wall with garland drain & sedimentation traps to prevent uncontrolled discharge of runoffs during monsoon and reuse the collected wastewater for construction purpose after primary settling. • Portable Bio-toilets for Domestic sewage generated from labour housing • Storage of hazardous chemical & waste in covered room with impervious flooring	• TPP will operate on ZLD Principle. • ETP is proposed for treatment of various effluent streams from Plant & treated water will be reused for ash conditioning & cooling. The domestic sewage will be treated in a STP. The treated effluent will be utilized for greenbelt & plantation.

19. **Green Belt development**: After the proposed expansion, total area under green belt development will be 210.0 Ha which includes 160 ha (142 Ha + 18 Ha additional green belt after optimization) inside the plant. In additional to this Green belt will be developed in another 50 Ha of degraded forest land located 8.8 km distance from the project site through Divisional Director, Social Forestry, Lalitpur at Bar Forest Range with a time frame of 10 years over a financial out lay of Rs. 2.5 crores. In this regard, requisite consent has been obtained from the State Forest Department vide letter dated 09.12.2025. Thus, the total green area will be 210 ha which is about 36.54% of the total plot area of 574.62 ha.

A 50 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 179,175 saplings (including gap filling and densification of 50,000 saplings through Miyawaki in existing green belt area)

will be planted and nurtured in 51.67 hectares (total plantation after expansion: 400,000 excluding 50,000 saplings for densification & gap filling) in 3 years.

Action Plan for strengthening of existing green belt developed area

S. No.	Year	Area (in Ha.)	Numbers of Trees to be planted	Amount as per current rates (in Rs. Lakhs)
1	First	15.10	37,750.0	37.75
2	Second	15.10	37,750.0	37.75
3	Third	21.47	53,675.0	53.68
4	Fourth (Gap filling & densification through Miyawaki)	108.33	50,000.0	50.00
	Total	**160**	**1,79,175.00**	**179.18**
	Existing number of trees in 108.33 ha land		**270,825.00**	
	Total Number of trees (Existing + Proposed)		**450,000.00**	

Action Plan for 50 Ha green belt development in degraded forest land by the State Forest Department

S. No.	Details of Work	No. of Trees to be planted	Amount as per current rates (in Rs.)
1	Phase I (Advance Soil Work)	-	11100000.00
2	Phase II (Planting Trees)	1,00,000.0	4780000.00
3	Phase III (First Year of Maintenance)	25,000.0	1757000.00
4	Phase IV (Second Year of Maintenance)	-	2630000.00
5	Phase V (Third Year of Maintenance)	-	2439000.00
6	Phase VI (Fourth Year of Maintenance)	-	400000.00
7	Phase VII (Fifth Year of Maintenance)	-	400000.00
8	Phase VIII (Sixth Year of Maintenance)	-	400000.00
9	Phase IX (Seventh Year of Maintenance)	-	400000.00
10	Phase X (Eighth Year of Maintenance)	-	400000.00
11	Phase XI (Ninth Year of Maintenance)	-	400000.00
12	Phase XII (Tenth Year of Maintenance)	-	400000.00
	Total	**1,25,000.0**	**25506000.00**

20. **Ash management for the last three years**

Year	Quantity Generated (MT)	Quantity Utilized (MT)	% of utilization	Balance Quantity (MT)	No of storage silos with capacity
2022-23	2670553	2636839	98.74	33714	6 nos. of Silos Total Capacity: - 6000.0 Tonnes
2023-24	2935650	2940685	100.17	5035	
2024-25	2977712	3013174	101.19	35462	
MT – Metric Tonnes					

A. Fly ash details for the last three years = 7029037 Ton (During FY 2022-23 to 2024-25)

S. No.	Activity (as applicable)	Quantity	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)	15055	0.21	UPPCB CCA No.-220384/UPPCB/Jhansi(UPPCBRO)/CTO/both/LALITPUR/2024 Date: 15/12/2024

S. No.	Activity (as applicable)	Quantity	Percentage	Remarks (Prior approval of SPCB details to be mentioned)
2.	Cement manufacturing	5800129	85.52	
3.	Ready mix concrete	0	0	
4.	Ash and Geo-polymer based construction materials	0	0	
5.	Manufacturing of sintered or cold bonded ash aggregate	0	0	
6.	Construction of roads, road and fly over embankment	75583	1.08	
7.	Construction of dams	0	0	
8.	Filling up of low lying area	1138270	16.19	
9.	Filling of mine voids:	0	0	
10.	Use in overburden dumps	0	0	
11.	Agriculture	0	0	
12.	Construction of shoreline protection structures in coastal districts	0	0	
13.	Export of ash to other countries	0	0	
14.	Others (please specify)	0	0	
	Total	**7029037**	**100**	

B. Bottom ash details for last three years = 13.44146 Ton (During FY 2022-23 to 2024-25)

S. No.	Activity (as applicable)	Quantity	Percentage	Remarks (Prior approval of SPCB details to be mentioned)
1.	Filling up of low lying area	1561661	100	
	Total	1561661	100	

C. Legacy ash details: Legacy ash quantity is Nil.

D. Ash pond details

S. No.	Details of Ash pond	Ash pond 1	Ash pond 2	Ash pond 3	Total
1.	Status of ash pond (Active / Exhausted (yet to be reclaimed)/ Reclaimed)	Active	Active	Active	N.A.
2.	Area (Ha)				41.29
3.	Dyke height (m)	5	15	15	N.A.
4.	Volume (m^3)	480000	879000	174000	N.A.
5.	Quantity of ash disposed (Metric Tons)				As on 31.03.24 total- 309318 MT
6.	Available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons)				N.A. (Pond Evacuation is a continuous process)
7.	Expected life of ash pond (number of years and months)	25 years	25 years	25 years	N.A.
8.	Type lining carried in ash pond: HDPE lining of LDPE lining or clay lining or No lining	HDPE with PCC	HDPE with PCC	HDPE with PCC	N.A.
9.	Mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD)	Wet slurry (HCSD)	Wet slurry (LCSD)	Wet slurry (LCSD)	N.A.
10.	Ratio of ash: water in slurry mix (1:_):	1.86 : 1	1 : 2.33	1 : 2.33	
11.	Ash water recycling system (AWRS) installed and functioning : Yes or No	Yes	Yes	Yes	N.A.

S. No.	Details of Ash pond	Ash pond 1	Ash pond 2	Ash pond 3	Total
12.	Quantity of wastewater from ash pond discharged into land or water body (m^3)	Nil	Nil	Nil	N.A.
13.	Last date when the dyke stability study was conducted and name of the organization who conducted the study:	Nov-2024 IIT BHU	Nov-2024 IIT BHU	Nov-2024 IIT BHU	N.A.
14.	Last date when the audit was conducted and name of the organization who conducted the audit:	Nov-2024 IIT _BHU	Nov-2024 IIT _BHU	Nov-2024 IIT _BHU	N.A.

E. Proposed ash utilization plan for expansion project-

Details	Existing Generated (MTPA)	Proposed Generated (MTPA)	Total	Utilized (LMTPA)	% of utilization	Balance Quantity (MTPA)	No of storage silos with capacity
Ash (Fly & Bottom)	3000000	4960000	7960000	7960000	100.0	0.00	8 nos. of Silos Total Capacity: - 12000.0 Tonnes
MTPA – Metric Tonnes Per Annum							

Ash pond details: LPGCL has proposed new ash pond, details of which are given below

S. No.	Details of Ash pond	Ash pond
1.	Area (Ha)	20.66
2.	Dyke height (m)	15
3.	Volume (m^3)	3099000
4.	Quantity of ash to be disposed (Metric Tons)	24,79,200 MT
5.	Expected life of ash pond (number of years and months)	25 Years
6.	Type lining carried in ash pond: HDPE lining of LDPE lining or clay lining or No lining	HDPE with PCC
7.	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)
8.	Ratio of ash: water in slurry mix (1:___):	1 : 2.33
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
11.	Details regarding dyke stability study and name of organization who conducted the study	Will be conducted

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

22. **Compliance to the observations of sub-committee site visit report** (Date of site visit: 09/07/2025- 12/07/2025)

S. No.	Recommendation from Site Visit Report	Action to be taken	Budget Allocation (Rs. Crore)
1.	In Phase I, the existing green belt is 39.49% of the total land. PP proposed to purchase an additional 121.6 hectares, of which 6.88 hectares will be for green belt area to make green belt 33%, i.e., 209.62 hectares. It is suggested that PP, instead of 6.88 hectares for a green belt area, consider an additional 10 hectares of green belt in Phase II.	The total land required for the project (existing and proposed) is 574.62 Ha, of which 513.4 Ha land is already in the possession of LPGCL and remaining 54.33 Ha of land adjacent to the existing land will be acquired additionally to accommodate ash pond and greenbelt requirement which will be 36.54% of total plant area (160 Ha inside plant premises and 50 Ha outside plant	--

S. No.	Recommendation from Site Visit Report	Action to be taken	Budget Allocation (Rs. Crore)
		premises).	
2.	Plantation and development of green belt outside the designated area is encouraged under various Government schemes. The basic aim of mass plantation is to increase green cover as per the National Forest Policy, carbon sequestration, and improve rural livelihood. To the above, PP has taken the initiative since its inception to plant and increase the green cover in and outside the plant. Till the end of FY 2024–25, 4.09 lakh green plants have already been planted outside the plant premises in barren GS land, farmer land, irrigation department land, and roadside land, etc. In addition to this, a 1 lakh tree plantation program within and outside plant premises is in progress in the current FY 2025–26.	Till the end of FY 2024–25, 4.09 lakh green plants have already been planted outside the plant premises in barren GS land, farmer land, irrigation department land, and roadside land, etc. In addition to this, a 1 lakh tree plantation program within and outside plant premises is in progress in the current FY 2025–26. Apart from this, Proposed plantation in the study area (Buffer Zone) includes plantation drive (5000 trees) in nearby villages & plantation of 2688 trees under EK Ped Maa Ke Naam Campaign" in compliance of the ToR issued to the expansion project.	Budgetary allocation: Rs. 0.40 Crore for plantation of 7688 trees in study area.
3.	During the visit to the proposed ash dyke location chosen by the project proponent at the west corner of the existing ash dyke, it was observed that though the proposed location is free from any habitation or settlement, there are some habitations located on its outer periphery, making the site slightly exposed from an environmental and safety point of view. On asking for an alternate location for the proposed ash dyke, the project proponent has shown a site on the south corner of the existing dyke. The new location was found away from any habitation and was comparatively more environmentally safe and secure with respect to the earlier location. Hence, we recommend that the project proponent consider this new location for the proposed ash dyke surrounded by the dense three tier plantation & proceed for public hearing and Final EIA Reporting with changed layout only.	Draft EIA submitted to the UPPCB with revised plant layout w.r.t revised proposed ash dyke locations as per directions of the Hon'ble EAC sub-committee & Final EIA report is being submitted with revised plant layout only.	--
4.	General amenities of the plant area including living spaces (guest house/field hostel) need to be renovated. There is a huge scope and necessity of improving the facilities in the field hostel and overall housekeeping in the guest house/field hostel. The same is to be implemented before the start of construction of Phase-II of the power plant.	Duly noted. Renovation works of the guest house/field hostel will be completed before the start of construction of Phase-II after obtaining all the statutory clearances.	Budgetary allocation: Rs. 0.50 Crore
5.	Certain area requires gap plantation. Three (3) tier plantation near boundaries where land expansion in Phase-II is required.	Gap plantation is being carried out in identified areas. LPGCL will maintain greenbelt & plantation in 160 Ha within plant premises (additional 18 Ha area further identified within plant premises as per	Recurring cost per annum: - Rs. 0.86 Crore
6.	The density of plantation is inadequate and needs improvement. It is suggested that in		

S. No.	Recommendation from Site Visit Report	Action to be taken	Budget Allocation (Rs. Crore)
	Miyawaki plantation, some improvement is required.	directions) & 50 Ha outside plant premises. Three tier plantation along periphery on plant boundary of 54.33 Ha of land adjacent to the existing land to be acquired additionally to accommodate ash pond and greenbelt requirement. Densification of plantation area will be carried out through Miyawaki technique.	
7.	Utrai Nadi running about 500 meter near to the boundary, so no construction should take place near this area and ensure maintaining 500 metre buffer from the nearby rivers like Utrai Nadi, etc.	No major plant component has been planned towards Utari nadi. A buffer of >500 m has been left between plant components & Utari Nadi.	--
8.	Nala passing within the boundary requires improvement in both banks of the nala.	Works proposed for nearby nallahs including that within site under watershed development scheme by LPGCL in consultation with concerned authorities: Periodical de-siltation of nallas, strengthening of embankments, ensuring free flow of water during heavy rains	Budgetary allocation: Rs. 1.0 Crore
9.	The rainwater harvesting plan along with budgetary provision be submitted.	2 ponds are under construction in the premises of the township for rain water harvesting.	Budgetary allocation: Rs. 2.0 Crore
10.	The internal roads, those which are not paved, shall have rigid pavement.	All internal roads within existing plant premises have been paved. All internal roads within plant premises including area for expansion will be paved/black topped wherever necessary.	Budget allocated included in project cost.
11.	The support to hospital, school, and skill development centres needs to be further strengthened to cater to the nearby villagers.	LPGCL has taken improvement of education & health facilities under Social EMP (CER) plan.	Budget allocated Rs. 46.50 Crore
12.	For water quality samples, they should identify some more running tube wells and hand pumps.	Presently, ground water monitoring is being carried out in 4 locations in study area & surface water monitoring in 02 location in buffer zone is being carried out which will be continued. 2 additional locations will be identified in the vicinity of the plant & added to the ground water monitoring network	
13.	Give analysis of carbon sink and carbon emissions of the existing plant and the proposed expansion.	GHG inventerization for existing plant has been submitted.	-
14.	Submit the status of fly ash/bottom ash utilization.	Fly ash/bottom ash utilization status has been given in Chapter 2 of this EIA report.	--
15.	Regular monitoring of occupational diseases through the competent authority should be carried out and mitigation measures to be taken, if required.	IME & PME is being done as per applicable rules. Annual medical check-up is being done; occupational health register is being maintained; PPE provision is done.	Budget for OHS: Recurring per annum – 0.18 Crore

23. **Compliance to the MoEF&CC OM dated 14/01/2025, 08/10/2025 and 25/11/2025**

In accordance with the OM dated 14/01/2025 & its amendment, UPPCB has not furnished their comments for incorporating the CTE conditions in the EC itself. In view of this, project proponent has been asked to obtain environmental safeguards from the concerned SPCB/PCC within 30 days from the date of grant of environmental

clearance as per OM dated 25/11/2025.

24. **Written submissions**

S. No.	Written submissions	Details
1.	The PP shall submit the Ash management & disposal details of 2024-25.	The Ash management & disposal details of 2024-25 has been submitted**.** Transportation of fly-ash will primarily be carried out through Rail route (80%), rest (20%) will be transported through bulkers (Capsule truck).
2.	The PP shall increase the allocation under the EMP for environmental monitoring activities.	The revised EMP cost, with an increased capital allocation for the environmental monitoring programme has been submitted as per para 36.1.15.
3.	The PP shall enhance the capacity of the proposed solar power plant in the proposed project area.	PP undertake to install a 2 MW solar PV plant will be installed in the proposed project area.
4.	The PP shall increase the budgetary provision in Wildlife conservation Plan prepared for conservation of Schedule-I species.	The budgetary provision for Wildlife Conservation Plan (WLCP) prepared for Schedule I species has been revised to 1.00 Crore and approval of Wildlife Conservation Plan will be submitted to the MoEF&CC within 2 months of obtaining Environmental Clearance letter.

Observations and deliberation of the EAC

25. ***The Committee observed and noted the following***:

i. Instant proposal is for seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the expansion of Lalitpur TPP by adding 2400 MW (3x800 MW) Coal based Ultra Super Critical Thermal Power Plant to existing 1980 MW (3x660 MW) by M/s. Lalitpur Power Generation Company Limited (LPGCL) located at Villages Mirchwara and Buraugaon, Tehsil Mahroni, District Lalitpur, Uttar Pradesh.

ii. The existing project of 3x660 MW was accorded environmental clearance vide letter no. J-13012/11/2009. IA. II(T) dated 31.03.2011 from MoEF&CC. Project has been implemented and the TPP is under operation. Consent to Operate (CTO) renewal for the existing unit was accorded by Uttar Pradesh State Pollution Control Board vide lr. No. AW-61310 dated 05.11.2024. The validity of CTO is up to 31.03.2026.

iii. The certified compliance report of earlier EC was obtained from Regional Office, MoEF&CC Lucknow on 30/06/2025. The Action taken report on the partially/non-complied conditions as reported in the CCR dated 30/06/2025 has been submitted to the Regional Office on 12.07.2025 and the same was forwarded to the Ministry on 20.11.2025 by Regional Office. The CCR has been duly deliberated upon by the EAC and satisfied with the Action Taken Report(ATR) of the proponent.

iv. As per CPCB communication dated 23/06/2022, the existing unit falls under Category C. FGD has not been installed for the existing unit. However, one 275 meter height RCC Chimney with tri-flue has been provided as per notification number GSR 742 (E) dated 30/08/1990. For the proposed expansion, one 275 meter height RCC Chimney with tri-flue will be provided as per notification number GSR 742 (E) dated 30/08/1990.

v. Terms of Reference for the expansion project was accorded on 24/03/2025. As per the ToR accorded, total land area was 635 Ha [Existing: 513.4 Ha; Expansion: 121.6 Ha]. However, in the application submitted for EC total land is reduced to 574.62 Ha [Existing: 513.4 Ha; Expansion: 61.22 Ha]

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

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

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

ix. There is no involvement of forest land in the existing and expansion project.

x. Total land requirement is 574.62 Ha. 513.4 Ha land is already in the possession of Lalitpur Power Generation Company Limited. The additional land under acquisition for the proposed expansion is 61.22 Ha and acquisition status is summarized as below:
• Consent Letter for 55.06 Ha land showing the intent of the land owners/ Gram Panchayat to sell the said private land has been received.
• Consent for 6.156 Ha land has been obtained from District Collectorate wherein ADM vide letter dated 06/01/2026 asked the project proponent to submit the resumption proposal/report of the affected village society's lands under the provisions mentioned in the Uttar Pradesh Revenue Code, 2006.

xi. The area earmarked for green belt development for existing project is 202.74 Ha which comprises of 170 Ha (Tree Plantation – 108.68 Ha. + Landscape Area – 61.32 Ha.) of area under green belt development and 32.74 Ha of area under vacant as on January, 2026. In the green belt developed area of 170 Ha, about 10 no. of trees is proposed to be removed and 140 nos of trees will be uprooted and translocated/ transplanted in the additional land acquired for the proposed expansion project.

xii. After the proposed expansion, total area under green belt development will be 210.0 Ha which includes 160 ha (142 Ha + 18 Ha additional green belt after optimization) inside the plant. In additional to this Green belt will be developed in another 50 Ha of degraded forest land located 8.8 km distance from the project site through Divisional Director, Social Forestry, Lalitpur at Bar Forest Range with a time frame of 10 years over a financial out lay of Rs. 2.5 crores. In this regard, requisite consent has been obtained from the State Forest Department vide letter dated 09.12.2025. Total Greenbelt after Proposed Expansion Project: 210Ha (Within Premises = 160 Ha + Outside Premises 50 Ha).

xiii. Total coal requirement is 20.91 MTPA and same would be met from subsidiaries of M/s Coal India Limited (CIL). Coal will be transported to the plant site by rail and no road transportation is involved.

xiv. The existing water requirement is 35.72 MCM/year (40 cusecs) sourced from Rajghat Canal and Kachnoda Dam. In this regard, permission has already been obtained from Irrigation Department on 21.06.2013 for supply of 71.44 MCM/year (80 cusecs). The total water requirement for the proposed project is estimated as 44.68 MCM/year (6000 m3/hr or 50 cusecs). Water requirement for the proposed expansion shall be met from existing allocation of 80 cusecs and only 10 cusecs will be required from Kachnoda Dam/ Shahjad Dam/ Bhaoni Dam located at 10 km, 25 Km, and 5 Km, respectively from the project site. The approval for withdrawal of water of 10 cusecs from Kachnoda Dam/ Shahjad Dam/ Bhaoni Dam is yet to be obtained. The water will be transported to the plant site through pipeline.

xv. The Committee deliberated on the baseline data collected during December' 2024 to February 2025 and incremental GLC due to the proposed project and observed that AAQ levels are within NAAQS.

xvi. The 3x800 MW will incorporate high-efficiency Electrostatic Precipitators (ESP) to control ash particle emissions. These ESPs will design to limit particulate emissions < 30 mg/Nm3. Low NOX Burners with Over Fire Air (OFA) system to minimize NOx emissions from the steam generator. Chimney of 275 m height will be constructed for good dispersion of pollutants minimizing SOx emission. Dust Extraction and Dust Suppression system shall be implemented to minimize the pollution.

xvii. Committee deliberated on the action plan of Hydrogeology study, Bio-diversity assessment study and Risk assessment study.

xviii. The committee noted that with respect to water pollution control, there will be no effluent discharge from the

premises, hence the ZLD will be maintained. Effluent will be treated in ETP and domestic wastewater will be treated in Sewage treatment plant. A state-of-the-art roof top rain water harvesting system will be provided to collect the run -off for ground water recharging.

xix. The Fly Ash will be collected in dry form in silos for further utilization/transportation through rail wagons / closed bulkers to adjacent Cement Plants. 100% Ash will be utilized as per Ash utilization Notification, 31st December'2021. Provision will be made for disposal of un-utilized ash in HCSD/LCSD form to ash dyke. The area for existing ash dyke is 41.29 Ha and area for the proposed ash dyke is 20.66 Ha.

xx. As per revised categorization given in the Wild Life (Protection) Amendment Act, 2022, total 19 Schedule I Species found in the buffer zone during field survey and secondary sources. The List of Flora & Fauna is duly authenticated by Social Forestry department, Lalitpur vide letter no. 3890/13-1dated: 04/06/2025. A Wildlife Conservation & Management Plan (WLCP) has been prepared and submitted to Divisional Forest Officer on 02/12/2025 and approval is yet to be obtained.

xxi. Existing capital of project was Rs. 16574.72 Crores. The capital cost of the proposed project is Rs 23230 Crores and the capital cost for environmental protection measures is proposed as Rs. 1319 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 66.05 Crores. The employment generation from the proposed expansion is Permanent: 550 nos and Contractual: 9150 nos.

xxii. Green belt will be strengthened in the existing area of 160 Ha by densification through Miyawaki technique. A 50 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be maintained as greenbelt and green cover as per CPCB guidelines. In addition to this, green belt will be developed in another 50 Ha of degraded forest land located 8.8 km distance from the project site through Divisional Director, Social Forestry, Lalitpur at Bar Forest Range with a time frame of 10 years over a financial out lay of Rs. 2.5 crores.

xxiii. Public Hearing was conducted on 27.10.2025. The Committee looked in to the videography of the public hearing proceedings, deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory. The committee advised the PP to implement the PH action plan in a time bound manner. Total Rs. 46.50 crore budget has been allocated to address the concerns/issues highlighted during public hearing.

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

xxv. EAC suggested for installation of 2 MW Solar Power Plant for energy conservation measures and carbon sequestration.

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

xxvii. The EAC also deliberated on the written submission of the project proponent as well as site visit report of the sub-committee and found it satisfactory.

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

Recommendations of the Committee:

26. The EAC after detailed deliberations on the information submitted and as presented during the meeting **recommended** for grant of Environmental Clearance to the proposed "*Expansion of Lalitpur TPP by adding 2400 MW (3x800 MW) Coal based Ultra Super Critical Thermal Power Plant to existing 1980 MW (3x660 MW) by M/s. Lalitpur Power Generation Company Limited (LPGCL) located at Villages Mirchwara and Buraugaon, Tehsil Mahroni, District Lalitpur, Uttar Pradesh*", under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and standard/general conditions (**Annexure 1**).

27. The MoEF&CC has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC hereby accords Environmental Clearance to ***M/s. Lalitpur Power Generation Company Limited*** for "*Expansion of Lalitpur TPP by adding 2400 MW (3x800 MW) Coal based Ultra Super Critical Thermal Power Plant to existing 1980 MW (3x660 MW), located at Villages Mirchwara and Buraugaon, Tehsil Mahroni, District Lalitpur, Uttar Pradesh*" subject to compliance of the Specific/General environmental conditions (**Annexure 1**).

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

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

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

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

32. General Instructions:

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

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

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

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

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

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

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

33. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986,

Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

34. This issue with an approval of the Competent Authority

Yours faithfully,

(Sundar Ramanathan)
Scientist 'F'
Tel: 011- 20819378
Email- r.sundar@nic.in

Copy To

1. The Member Secretary, CGWA, 18/11 Jamnagar House Man Singh Road, Central, Delhi, cgwa@nic.in
2. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in
3. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
4. The District Collector, DC Office, District Magistratecollectorate Campus Lalitpur(Up), Lalitpur, Uttar Pradesh, dmlal@nic.in
5. The Deputy Director General, Regional Office, Deputy Inspector General Of Forests (Central) Ministry Of Environment Forest And Climate Change Regional Office Kendriya Bhawan 11th Floor Sector "H" Aliganj Lucknow – 226024., N/A, N/A, rocz.lko-mef@nic.in
6. The Member Secretary, SPCB/PCC, Building No Tc-12v Vibhuti Khand Gomti Nagar, Lucknow, Uttar Pradesh, ms@uppcb.in
7. The Secretary, Ministry of Coal, J687+9w8 Central Secretariat Kartavya Path New Delhi Delhi 110001, Central, Delhi, secy-moc@gov.in

ANNEXURE-I

A. Specific conditions

[A] Environmental Management

1. Project proponent shall adopt 100% utilization of ash generated as a result of the expansion project in accordance with the ash utilization notification dated 31/12/2021 and its subsequent amendment. Area for the additional ash pond proposed under the expansion project of 3x800MW shall not exceed 20.66 Ha as committed.
2. In addition to the existing 04 Continuous Ambient Air Quality Monitoring Stations (CAAQMS), project proponent shall install additional one continuous ambient air quality monitoring at suitable locations in and around project site in consultation with UPPCB within one year from the date of grant of EC as committed.
3. Project proponent shall comply with the recommendations made in the biodiversity assessment report and Hydrogeology report in a time bound manner. Compliance status in this regard shall be submitted to the Regional Office of MoEF&CC along with the six monthly compliance report.
4. Project proponent shall store harvested rainwater in the project boundary and utilize the same for plantation, recharging water in the pond and domestic utilization in colonies. A record shall be maintained of water collected through rainwater and its supply system. PP shall get the water audit done every year to optimize the water requirement.
5. Total coal requirement for the existing and proposed project is 20.91 MTPA and same would be met from subsidiaries of M/s Coal India Limited (CIL). Coal shall be transported to the plant site only by rail mode and no road transportation is permitted at all.
6. The total water requirement for the proposed project is estimated as 44.68 MCM/year (6000 m^3/hr or 50 cusecs). Water requirement for the proposed expansion shall be met from existing allocation of 80 cusecs sourced from Rajghat Canal and Kachnoda Dam. The additional water requirement of 10 cusecs shall be met from Kachnoda Dam/ Shahjad Dam/ Bhaoni Dam for which prior approval shall be obtained by the proponent before commencement of the TPP operation.
7. Project proponent shall implement the protective measure proposed in EMP in a time-bound manner. The budget earmarked for the same is Rs.1365.5 Crores (Capital) and Rs. 69.30 crores (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.
8. Project proponent shall assess the carbon footprint of the project and develop carbon sink/carbon sequestration resources using modern technologies. The implementation report shall be submitted to the concerned Regional Office of the MoEF&CC.
9. Project proponent shall ensure that diesel operated vehicles will be switched over to E-Vehicles/ CNG vehicles in a time bound manner, replace the passenger vehicles to E-vehicle in phased manner. Further, for local movement of officials, Contract of Vehicles deployment shall be awarded to Project affected people and all efforts for adopting heavy E-vehicles/CNG Vehicles like Bulkers for ash transportation for short distance subject to availability of such E-vehicle and adequate charging infrastructure in the

surrounding area shall be provided. PP shall submit the action taken report to concerned RO with amount spent, photographs (before & after), number of such non diesel vehicles deployed etc. in six monthly compliance report.

10. The Project Proponent shall provide stack of 275 meters height and shall abide by the provisions of the notification number G.S.R 465 (E) dated 11/07/2025 related to SO_2 emission norms. Along with Particulate Matters, SO_2, NO_x and Hg; additionally, CO and CO_2 shall also be monitored for stack emissions.
11. Ash pond area and fly ash utilization shall be as per Fly Ash Notification issued by Ministry/ CPCB from time to time.
12. Project proponent shall ensure that pipelines carrying the fly ash and effluent shall be inspected regularly for any leakages.
13. Effluent of 7500 KLD will be treated through Effluent Treatment Plant. As committed by the Project proponent, Zero liquid discharge shall be adopted for the existing and the proposed plant. No wastewater will be discharged outside the project site.
14. PP shall install 2 MW Solar Energy Plant for conservation measures. Action plan in this regard shall be submitted to the Regional Office of the MoEF&CC and SPCB within 6 months from the date of grant of EC.PP should explore more opportunities to put solar PV in near by Schools and other Government buildings also.
15. Green belt in the existing area of 160 Ha will be strengthened by densification through Miyawaki technique as per the action plan submitted with total saplings of 4,50,000 Nos. A 50 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be maintained as greenbelt and green cover as per CPCB guidelines. In addition to this, green belt will be developed in another 50 Ha of degraded forest land located 8.8 km distance from the project site through Divisional Director, Social Forestry, Lalitpur at Bar Forest Range with a time frame of 10 years by planting 1,25,000 saplings with a financial out lay of Rs. 2.5 crores. The budget earmarked for the green belt, plantation inside and outside the plant area, along the ash/LDO transportation route and Miyawaki Plantation area shall be kept in a separate account and audited annually. PP should annually submit the audited statement of expenditure along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC and on PARIVESH Portal as the case may be for the activities carried out during previous year.
16. The Project proponent shall ensure that the proposed green belt development within the premises is in accordance with the prevalent guidelines existing at the time of grant of EC dated 31st March, 2011.
17. Project proponent shall carry out community plantation with incentive scheme by distributing 50,000 saplings per year for a period of five years. Further, PP shall provide basic facilities to the nearby schools such as drinking water, sanitation facilities and shall also develop green belt around the nearby schools. Regular watering of saplings planted in the nearby schools will be carried out by Project Proponent to mitigate the air and noise pollution. Further, PP shall organize awareness programs regularly for school students to educate them on the significance and preservation of environment/trees.
18. Wildlife conservation plan as approved by the competent authority shall be implemented. Additional, budget shall be added in the plan, in case additional measures

suggested by state wildlife department. The final Wildlife conservation plan duly approved by the CWLW shall be submitted to RO, MoEF&CC within a time frame of two months from the date of grant of EC and the budget approved by the concerned authority shall be deposited in a government account.

19. Project proponent shall install LED display of air quality (Continuous AAQ monitoring) and stack emission (Continuous emission monitoring) at prominent locations preferably outside the plant's main entrance for public viewing and in administrative complex and maintenance of devices shall be done regularly.

20. Project proponent shall carry out Water Sprinkling on roads inside the plant area/ administrative/ residential areas and outside the plant area at least for 2 KM on a regular basis to control the air pollution. A logbook shall be maintained for the activity and be in six-monthly compliance report.

21. PP shall deploy vacuum based vehicle for everyday cleaning of the road in and around plant site at least for 5 KM. PP shall make all efforts to maintain adequate strength of shoulders of transportation route of fly ash.

22. A detailed action plan regarding leachate handling shall be prepared and implemented in consultation with SPCB and the same shall be submitted to the Regional Office of the Ministry. Leachate shall be treated and reused. No treated leachate shall be discharged in any circumstances. Characteristics of Leachate and the treated leachate shall be monitored once in quarter and records shall be maintained.

23. Oil and grease recovered from the treatment plant should be disposed only through authorized recyclers.

24. Monitoring of surface water quality and Ground Water quality shall also be regularly conducted in and around the project site and records to be maintained. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report. The monitored data shall be submitted regularly on PARIVESH portal as part of Half Yearly compliance report.

25. For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

26. PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report submitted by PP.

27. PP is advised to implement the '***Ek Ped Maa Ke Naam***' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

[B] Socio-economic

1. A vision document comprising prospective plan for implementation of various CER activities, plantation programme outside the project cover area, rejuvenation and conservation of water bodies within 5 km radius of the project cover area shall be prepared and submitted to the Regional Office of the Ministry within 6 months. Implementation status of the same shall be reported to the Regional office in 6 monthly compliance report.
2. Epidemiological Study among population within 5 km radius of project cover area shall be carried out on regular interval (Once in two year) through independent agency. Necessary measures shall be taken as per findings of study in consultation with district administration. Action taken report shall be submitted to the Regional Office of the Ministry.
3. The budget proposed for PH is Rs. 46.5 Crores. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health as committed. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC.
4. The establishment of a robust public grievance redressal mechanism to address concerns and complaints from local communities regarding the power plant's operations, environmental impacts, or social issues shall be developed. A Senior Officer shall review the functioning of the mechanism twice in a month.

[C] Miscellaneous

1. An Environmental Cell headed by the Environment Manger with postgraduate qualification in environmental science/environmental engineering, shall be created. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.
2. Project proponent shall obtain environmental safeguards from the concerned SPCB/PCC within 30 days from the date of grant of environmental clearance as per OM dated 25/11/2025. Compliance in this regard shall be submitted to the Ministry and Regional Office of MoEF&CC.
3. Consent for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
4. All necessary clearance from the concerned Authority, as may be applicable should be obtained prior to commencement of project or activity.

B. General conditions

A. Statutory compliance:

1. Emission Standards for Thermal Power Plants as per Ministry's Notification S.O. 3305 (E) dated 7.12.2015, G.S.R.593 (E) dated 28.6.2018 and as amended from time to time shall be complied.
2. MoEF&CC Notifications on Water Consumption vide Notification No. S.O. 3305 (E) dated 07.12.2015 read with G.S.R 593 (E) dated 28.6.2018 as amended from time to time shall be complied.
3. The recommendation from Standing Committee of NBWL under the Wildlife (Protection) Act, 1972 should be obtained, if applicable.
4. No Objection Certificate from Ministry of Civil Aviation be obtained for installation of requisite chimney height and its siting criteria for height clearance.

B. Ash content/ mode of transportation of coal:

1. MoEF&CC Notification issued vide S.O. 1561 (E) dated 21.05.2020 and as amended from time to time shall be complied which inter-alia include use of coal by Thermal Power Plants, without stipulations as regards ash content or distance, shall be permitted subject to compliance of conditions prescribed under (1) Setting Up Technology Solution for emission norms, (2) Management of Ash Ponds and (3) Transportation.

C. Air quality monitoring and Management:

1. Project proponent shall abide by the provisions of the notification number G.S.R 465(E) dated 11/07/2025 related to SO_2 emission norms.
2. Low NO_X Burners with Over Fire Air (OFA) system shall be installed to achieve NO_X emission standard of 100 mg/Nm^3.
3. High efficiency Electrostatic Precipitators (ESPs) shall be installed in each unit to ensure that particulate matter (PM) emission to meet the stipulated standards of 30 mg/Nm^3.
4. Stack with a height of 275 meters shall be provided with continuous online monitoring instruments for SO_2, Nox and Particulate Matter as per extant rules.
5. Exit velocity of flue gases shall not be less than 20-25 m/s. Mercury emissions from stack shall also be monitored periodically.
6. Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants from the flue gases such as PM_{10}, $PM_{2.5}$, SO_2, NO_X within the plant area at five locations. The monitoring of other locations (at least three locations outside the plant area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.
7. Adequate dust extraction/suppression system shall be installed in coal handling, ash handling areas and material transfer points to control fugitive emissions.

8. Appropriate Air Pollution Control measures (DEs/DSs) be provided at all the dust generating sources including sufficient water sprinkling arrangements at various locations viz., roads, excavation sites, crusher plants, transfer points, loading and unloading areas, etc.

D. Noise pollution and its control measures:

1. The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.
2. Persons exposed to high noise generating equipment shall use Personal Protective Equipment (PPE) like earplugs/ear muffs, etc.
3. Periodical medical examination on hearing loss shall be carried out for all the workers and maintain audiometric record and for treatment of any hearing loss including rotating to non-noisy/less noisy areas.

E. Human Health Environment:

1. Bi-annual Health check-up of all the workers is to be conducted. The study shall take into account of chronic exposure to noise which may lead to adverse effects like increase in heart rate and blood pressure, hypertension and peripheral vasoconstriction and thus increased peripheral vascular resistance. Similarly, the study shall also assess the health impacts due to air polluting agents.
2. Impact of operation of power plant on agricultural crops, large water bodies (as applicable) once in two years by engaging an institute of repute. The study shall also include impact due to heavy metals associated with emission from power plant.

F. Water quality monitoring and Management:

1. Induced/Natural draft closed cycle wet cooling system including cooling towers shall be set up with minimum Cycles of Concentration (COC) of 5.0 or above for power plants using fresh water to achieve specific water consumption of 3.0 m^3/MWhr.
2. In case of the water withdrawal from river, a minimum flow 15% of the average flow of 120 consecutive leanest days should be maintained for environmental flow whichever is higher, to be released during the lean season after water withdrawal for proposed power plant.
3. Records pertaining to measurements of daily water withdrawal and river flows (obtained from Irrigation Department/Water Resources Department) immediately upstream and downstream of withdrawal site shall be maintained.
4. Regular (at least once in six months) monitoring of groundwater quality in and around the ash pond area including presence of heavy metals (Hg, Cr, As, Pb, etc.) shall be carried out as per CPCB guidelines. Surface water quality monitoring shall be undertaken for major surface water bodies as per the EMP. The data so obtained should be compared with the baseline data so as to ensure that the groundwater and surface water quality is not adversely impacted due to the project & its activities.

5. The treated effluents emanating from the different processes such as DM plant, boiler blow down, ash pond/dyke, sewage, etc. conforming to the prescribed standards shall be re-circulated and reused. Sludge/ rejects will be disposed in accordance with the Hazardous Waste Management Rules.
6. Hot water dispensed from the condenser should be adequately cooled to ensure the temperature of the released surface water is not more than 5 degrees Celsius above the temperature of the intake water.
7. Wastewater generation of 7500 KLD from various sources (viz. cooling tower blowdown, boiler blow down, wastewater from ash handling, etc) shall be treated to meet the standards of pH: 6.5-8.5; Total Suspended Solids: 100 mg/l; Oil & Grease: 20 mg/l; Copper: 1 mg/l; Iron:1 mg/l; Free Chlorine: 0.5; Zinc: 1.0 mg/l; Total Chromium: 0.2 mg/l; Phosphate: 5.0 mg/l.
8. Sewage generation of 80 KLD will be treated by setting up Sewage Treatment plant to maintain the treated sewage characteristics of pH: 6.5-9.0; Bio-Chemical Oxygen Demand (BOD): 30 mg/l; Total Suspended Solids: 100 mg/l; Faecal Coliforms (Most Probable Number): <1000 per 100 ml.

G. Risk Mitigation and Disaster Management:

1. Adequate safety measures and environmental safeguards shall be provided in the plant area to control spontaneous fires in coal yard, especially during dry and humid season.
2. Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS shall be made as per the extant rules in the plant area in accordance with the directives of Petroleum & Explosives Safety Organisation (PESO). Low sulphur fuel shall be used.
3. Ergonomic working conditions with First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
4. Safety management plan based on Risk Assessment shall be prepared to limit the risk exposure to the workers within the plant boundary.
5. Regular mock drills for on-site emergency management plan and Integrated Emergency Response System shall be developed for all kind of possible disaster situations.

H. Green belt and Biodiversity conservation:

1. Total area under green belt development will be 160 Ha which is about 27.84 percentage of total area (574.62 Ha) in terms of the MoEF&CC O.M. dated 29/10/2025.In addition to this, green belt will be developed in another 50 Ha of degraded forest land located 8.8 km distance from the project site through Divisional Director, Social Forestry, Lalitpur at Bar Forest Range with a time frame of 10 years by planting 1,25,000 saplings with a financial out lay of Rs. 2.5 crores. In this regard, requisite consent has been obtained from the State Forest Department vide letter dated 09.12.2025. Besides, densification of existing plantation within plant premises will also be carried out through Miyawaki technique in 160 Ha with total saplings of 4,50,000 Nos. Total Greenbelt after Proposed Expansion Project: 210 Ha (Within Premises = 160 Ha + Outside Premises 50 Ha).

2. In-situ/ex-situ Conservation Plan for the conservation of flora and fauna should be prepared and implemented.

I. Waste management:

1. Solid waste management should be planned in accordance with extant Solid Waste Management Rules, 2016.
2. Toxicity Characteristic Leachate Procedure (TCLP) test shall be conducted for any substance, potential of leaching heavy metals into the surrounding areas as well as into the groundwater.
3. Ash pond shall be lined with impervious liner as per the soil conditions. Adequate dam/dyke safety measures shall also be implemented to protect the ash dyke from getting breached. Fencing and plantation should be done all along the periphery of the ash dyke.
4. Fly ash shall be collected in dry form and ash generated shall be used in phased manner as per provisions of the Notification on Fly Ash Utilization issued by the Ministry S.O. 5481 dated 31.12.2021, S.O.6169 (E) dated 30.12.2021, S.O.05 (E) dated 01.01.2024 and amendment thereto.
5. Unutilized ash shall be disposed off in the ash pond in the form of HCSD/LCSD method. Ash water recycling system shall be set up to recover supernatant water.

J. Monitoring of compliance:

1. Environmental Audit of the project be taken up by the third party for preparation of Environmental Statement as per Form-V & Conditions stipulated in the EC and report be submitted to the Ministry.
2. Resettlement & Rehabilitation Plan as per the extant rules of Govt. of India and respective State Govt. shall be followed, if applicable.
3. Energy Conservation Plan to be implemented as envisaged in the EIA / EMP report. Renewable Energy Purchase Obligation as set by MoP/State Government shall be met either by establishing renewable energy power plant (such as solar, wind, etc.) or by purchasing Renewable Energy Certificates.
4. Energy and Water Audit shall be conducted at least once in two years and recommendations arising out of the Report should be followed. A report in this regard shall be submitted to Ministry's Regional Office.
5. The project proponent shall (Post-EC Monitoring):
    a. Send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;
    b. Upload the clearance letter on the web site of the company as a part of information to the general public.
    c. Inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter

are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change (MoEF&CC) at http://parviesh.nic.in.

d. Upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;

e. Monitor the criteria pollutants level namely; PM (PM_{10} & $PM_{2.5}$ in case of ambient AAQ), SO_2, Nox (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company;

f. Submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB;

g. Submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;

h. Inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project and the date of commencement of the land development work.\

K. Corporate Environmental Responsibility (CER) activities:

1. CER activities will be carried out as per Ministry's OM F.No.22- 65/2017- IA.III dated 30th September, 2020 and 22-65/2017- IA.III dated 25.02.2021 or as proposed by the PP in reference to Public Hearing or as earmarked in the EIA/EMP report along with the detailed scheduled of implementation with appropriate budgeting. Statement on the commitments (activity-wise) made during public hearing to facilitate the discussion on the CER in compliance of the shall be submitted.

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Signature Not Verified

Digitally Signed by : Sundar Ramanathan
Member Secretary, MoEFCC (EC)

Date: 03/07/2026