

PPGCL/ENV/FY25/312

Date:13.04.2024

To,
Shri Bivash Ranjan, IFS
Deputy Director General of Forest (C)
Ministry of Environment, Forest and Climate Change
Regional Office (CZ)
Kendriya Bhawan, 5th Floor, Sector "H", Aliganj
Lucknow - 226020

Sub – Fly Ash Notification S.O. 2804 (E), 3rd November 2009. Annual implementation report
- Paragraph 7 of the notification - Submission of Statutory Compliance Report for the period
of April'23 to March'24.

Dear Sir,

With reference to the above-mentioned subject, please find attached duly filled Fly ash
utilisation report of M/s Prayagraj Power Generation Company Limited for the period 1st
April'23 to 31st March' 24 for FY 2023-24.

This is for your kind information and record please.

Thanking You

Sincerely,

For Prayagraj Power Generation Company Limited



S H Pandey

Chief- O&M Services

Encl: Annual Ash utilisation report for FY 2023-24 (Total no. of page enclosed -4).

Cc: i) In-charge

CPCB, Zonal Office (North) Lucknow

ii) Member Secretary

UPPCB, Lucknow, Uttar Pradesh

ii) **The Regional Officer,**

UPPCB, Prayagraj (Uttar Pradesh)



Prayagraj Power Generation Company Limited

Registered Office : Shatabdi Bhawan, B 12 & 13, Sector 4, Gautam Budh Nagar, Noida, Uttar Pradesh - 201301
Phone: + 91-120-612200/6102208 CIN: U40101UP2007PLC032835

Plant Address : P.O. - Lohgara, Tehsil - Bara, Prayagraj (Allahabad), Uttar Pradesh - 212107
Phone: + 91-7525006400/ 8528846666, Web:-ppgcl.co.in, Email:-ppgcl@ppgcl.co.in

Ash Compliance Report (for the period 1st April 2023 – 31st March 2024)


Sl. No.	Details	
1	Name of Power Plant	Prayagraj Power Generation Company Limited
2	Name of the company	Prayagraj Power Generation company Ltd.
3	District	Prayagraj
4	State	Uttar Pradesh
5	Postal address for communication:	P.O. Lohgara, Tehsil: Bara, Prayagraj (Allahabad), Uttar Pradesh – 212107
6	E-mail:	PPGCL@ppgcl.co.in
7	Power Plant installed capacity (MW):	1980
8	Plant Load Factor (PLF):	73.02 %
9	No. of units generated (MWh):	1,26,99,020
10	Total area under power plant (ha): (Including area under ash ponds)	573.17
11	Quantity of coal consumption during reporting period (Metric Tons per Annum):	77,72,204.95
12	Average ash content in percentage (per cent):	34.12 %
13	Quantity of current ash generation during reporting period (Metric Tons per Annum): Fly ash (Metric Tons per Annum): Bottom ash (Metric Tons per Annum):	 21,21,551.08 5,30,387.77
14	Capacity of dry fly ash storage silo(s) (Metric Tons):	62,000
15	Details of utilisation of current ash generated during reporting period (a) Total quantity of current ash utilised (MTPA) during reporting period (b) Quantity of fly ash utilised (MTPA): (i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels) (ii) Cement manufacturing: (iii) Ready mix concrete: (iv) Ash and Geo-polymer based construction material: (v) Manufacturing of sintered or cold bonded ash aggregate: (vi) Construction of roads, road and fly over embankment: (vii) Construction of dams: (viii) Filling up of low lying area: (ix) Filling of mine voids: (x) Use in overburden dumps: (xi) Agriculture: (xii) Construction of shoreline protection structures in coastal districts; (xiii) Export of ash to other countries: (xiv) Others (please specify): Ash pond repairing (c) Quantity of bottom ash utilised (MTPA):	 26,51,938.85 18,22,593.12 1,055.17 18,10,482.71 NA NA NA 240.18 NA 9,869.72 945.34 NA NA NA NA NA 8,29,345.73 MT (Bottom Ash - 5,30,387.77 MT + Fly ash disposed in Pond - 2,98,957.96 MT)

	<p>(i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):</p> <p>(ii) Cement manufacturing:</p> <p>(iii) Ready mix concrete:</p> <p>(iv) Ash and Geo-polymer based construction material:</p> <p>(v) Manufacturing of sintered or cold bonded ash aggregate:</p> <p>(vi) Construction of roads, road and flyover embankment:</p> <p>(vii) Construction of dams:</p> <p>(viii) Filling up of low lying area:</p> <p>(ix) Filling of mine voids:</p> <p>(x) Use in overburden dumps:</p> <p>(xi) Agriculture:</p> <p>(xii) Construction of shoreline protection structures in coastal districts:</p> <p>(xiii) Export of ash to other countries:</p> <p>(xiv) Others (please specify):</p> <p>Total quantity of current ash unutilised (MTPA) during reporting period</p>	<p>NA</p> <p>3,125.20</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>13,390.95</p> <p>NA</p> <p>4,22,000.44 (Current Pond Ash)</p> <p>3,90,829.14</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>Nil</p>
16	Percentage utilisation of current ash generated during reporting period (per cent):	132.25 %
17	<p>Details of disposal of ash in ash ponds</p> <p>(a) Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31st March (excluding reporting period):</p> <p>(b) Quantity of ash disposed in ash pond(s) during reporting period (Metric Tons):</p> <p>(c) Total quantity of water consumption for slurry discharge into ash ponds during reporting period (m³):</p> <p>(d) Total number of ash ponds:</p> <p>(i) Active:</p> <p>(ii) Exhausted (yet to be reclaimed):</p> <p>(iii) Reclaimed:</p> <p>(e) total area under ash ponds (ha):</p>	<p>25,87,056.92</p> <p>8,29,345.73</p> <p>33,17,382.92</p> <p>2 Nos. (1A & 1B)</p> <p>1 Nos. (Ash Pond 2)</p> <p>76.11</p>
18	<p>Individual ash pond details</p> <p>Ash pond-1,2, etc (please provide below mentioned details separately, if number of ash ponds is more than one)</p> <p>(a) Status: Under construction or Active or Exhausted or Reclaimed</p> <p>(b) Date of start of ash disposal in ash pond (DD/MM/YYYY or MMYYYY):</p> <p>(c) Date of stoppage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MM/YYYY): (Not applicable for active ash ponds)</p> <p>(c) area (hectares):</p> <p>(d) dyke height (m):</p> <p>(d) volume (m³):</p> <p>(e) quantity of ash disposed as on 31st March (Metric Tons):</p> <p>(f) available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons):</p>	<p>Ash pond 1A&1B - Active</p> <p>Ash Pond 2- stabilised.</p> <p>29 Feb 2016</p> <p>Mar 2024 (Ash Pond 2 Stabilised)</p> <p>76.11 Total (1A,1B and 2)</p> <p>1A- 5.5 m , 1B- 6 m , 2- 6.5 m</p> <p>1A- 1254000, 1B- 1584000, 2-1540500</p> <p>Ash Pond 1A- 449461 (stock)</p> <p>Ash Pond 1B- 112365 (stock)</p> <p>Ash Pond 1A- 51.33 %, 473939</p> <p>Ash Pond 1B- 90.54 %, 1075635</p> <p>Ash Pond 1A & 1B- 25 years</p>

Ash Compliance Report (for the period 1st April 2023 – 31st March 2024)

	<p>(g) expected life of ash pond (number of years and months):</p> <p>(e) co-ordinates (Lat and Long): (please specify minimum 4 co-ordinates)</p> <p>(f) type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining (g) mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD) (h) Ratio of ash: water in slurry mix (1:___): (i) Ash water recycling system (AWRS) installed and functioning: Yes or No (j) Quantity of wastewater from ash pond discharged into land or water body (m3):</p>	<table border="1"> <thead> <tr> <th>Lat.</th> <th>Long.</th> </tr> </thead> <tbody> <tr> <td>25°11'55.28"N</td> <td>81°38'29.15"E</td> </tr> <tr> <td>25°11'27.25"N</td> <td>81°38'17.34"E</td> </tr> <tr> <td>25°11'5.58"N</td> <td>81°38'11.45"E</td> </tr> <tr> <td>25°11'29.33"N</td> <td>81°38'39.82"E</td> </tr> </tbody> </table> <p>Ash Pond-1A & 1B - HDPE Ash Pond-2 - HDPE MCSD</p> <p>1:4 Yes NA</p>	Lat.	Long.	25°11'55.28"N	81°38'29.15"E	25°11'27.25"N	81°38'17.34"E	25°11'5.58"N	81°38'11.45"E	25°11'29.33"N	81°38'39.82"E
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	<p>(k) Last date when the dyke stability study was conducted and name of the organisation who conducted the study:</p> <p>(l) Last date when the audit was conducted and name of the organisation who conducted the audit:</p>	<p>Stability Study has been done by IIT Kharagpur for PPGCL Ash Pond No. 02.</p> <p>Ash Compliance audit for the FY 2022-23 was done by IIT BHU, Audit has been conducted as per the CPCB OM IPC-II/TPP/CP-11/76/2022/1252 dated 06.03.2023 and report submitted to concerned authority on dated 27.11.2023.</p>										
<p>19</p>	<p>Quantity of legacy ash utilised (MTPA):</p> <p>i. Fly ash-based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):</p> <p>ii. Cement manufacturing:</p> <p>iii. Ready mix concrete:</p> <p>iv. Ash and Geo-polymer based construction material:</p> <p>v. Manufacturing of sintered or cold bonded ash aggregate:</p> <p>vi. Construction of roads, road and flyover embankment:</p> <p>vii. Construction of dams:</p> <p>viii. Filling up of low lying area:</p> <p>ix. Filling of mine voids:</p> <p>x. Use in overburden dumps:</p> <p>xi. Agriculture:</p> <p>xii. Construction of shoreline protection structures in coastal districts;</p> <p>xiii. Export of ash to other countries:</p> <p>xiv. Others (please specify):</p>	<p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>8,55,231.26</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>11,70,000 MT of ash in ash pond 2, has been stabilised. Intimation letter submitted to CPCB/UPPCB on 27.03.2023.</p>										

Ash Compliance Report (for the period 1st April 2023 – 31st March 2024)

20	Summary:			
	Details	Quantity Generated (MTP)	Quantity utilised (MTP) and (per cent)	Balance quantity (MTP)
	Current ash during reporting period	26,51,938.85	26,51,938.85 (100.00 %)	0
	Legacy ash		20,25,231.26 (Ash Pond No. 02 Stabilised :11,70,000 & Low-Lying Area Filling: 855231.27)	-
	Total (MT)		46,77,170.11	5,61,825.66
21	Any other information: Soft copy of the annual compliance report, and shape files of power plant and ash ponds may be e-mailed to: - moefccoalash@gov.in		The soft copy of the annual compliance report will be e mailed	
22	Signature of Authorised Signatory		 S H Pandey Chief O&M Services	