Energy (Barmer) Limited
Village & Post : Bhadresh, Post Box No. 30,
Distt : Barmer – 344001 (Rajasthan)
Phone : +91 2982 229100
Fax : +91 2982 229222
Website : www.jsw.in

Ref: JSWE(B)L/ENV/24-25/004 Date: 27th Apr, 2024

To,
Mr. Nazimuddin,
Divisional Head- IPC-II,
Central Pollution Control Board
East Arjun Nagar, Shahadara,
Delhi-110032

Sub: Submission of Ash Compliance Report for the period of 1st April-2023 to 31st March-2024 of 1080 MW Lignite based Power Plant at Village-Bhadresh, District Barmer.

Ref: - 1. MoEF&CC Notification S.O. 5481(E) dated 31.12.2021
2. MoEF&CC Notification S.O. 6169(E) dated 30.12.2022

Dear Sir,

This is with reference to above subject matter, please find the enclosed Annexure of the Ash compliance report in prescribed format for the period of April-2023 to March-2024.

Thanking you.

For JSW Energy (BARMER) Ltd

Dipak Patil
GM (Environment & Chemistry)

Enclosure:
- Ash Compliance Report in Prescribed format.

C.C.
The Integrated Regional Officer – MoEF&CC, Jaipur.
The Member Secretary – RSPCB, Jaipur.
The Regional Officer – RSPCB, Balotra.

Annexure

Ash Compliance Report (for the period 1st April-31st March) to be submitted on or before 31st May.

Sl. No.	Details	
1.	Name of Power Plant	JSW Energy (Barmer) Limited
2.	Name of the company	JSW Energy Limited
3.	District	Barmer
4.	State	Rajasthan
5.	Postal address for communication:	JSW Energy (Barmer) Limited. Village- Bhadresh, Tehsil- Barmer. Dist.- Barmer-344 001.
6.	E-mail:	energy.barmeroperationsupport@jsw.in
7.	Power Plant installed capacity (MW):	1080
8.	Plant Load Factor (PLF):	74.68 %
9.	No. of units generated (MWh):	7084252
10.	Total area under power plant (ha): (including area under ash ponds)	468
11.	Quantity of coal consumption during reporting period (Metric Tons per Annum):	5872535
12	Average ash content in percentage (per cent):	14.770571 (Avg. Ash Content Lignite & Lime)
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):	867407 650555 216852
14.	Capacity of dry fly ash storage silo(s) (Metric Tons):	12000
15	Details of utilization of current ash generated during reporting period (a) Total quantity of current ash utilized (MTPA) during reporting period: (b) Quantity of fly ash utilized (MTPA): (i) Fly ash- based products (bricks or blocks or tiles or fiber cement sheets or pipes or boards or panels) (ii) Cement manufacturing:	 838210 193939 434719

	(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): (c) Quantity of bottom 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 flyover 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): Total quantity of current ash un-utilized (MTPA) during reporting period:	- - - - - - - - - 64645 144907 - - - - - - - - - - 0 29197
16.	Percentage utilization of current ash generated during reporting period (per cent):	96.634 %
17.	Details of disposal of ash in ash ponds Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31st March (excluding reporting period): Quantity of ash disposed in ash pond(s) during reporting period (Metric Tons): Total quantity of water consumption for slurry discharge into ash ponds during reporting period (m3): Total number of ash ponds: Active: Exhausted (yet to be reclaimed): Reclaimed: total area under ash ponds (ha):	 156158 0 0 1 1 0 0 20
18.	Individual ash pond details *Ash pond-1,2, etc (please provide below mentioned details separately, if number of ash ponds is more than one)* (a) Status: Under construction or Active or Exhausted or	 Active (Single ash pond)

	Reclaimed	
	(b). Date of start of ash disposal in ash pond (DD/MM/YYYY or MMYYYY):	11/2009
	(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)	-
	(c). area (hectares):	20
	(d). dyke height (m):	9 m
	(d). volume (m3):	18 Lac m3
	(e). quantity of ash disposed as on 31st March (Metric Tons):	151560 MT
	(f). available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons):	91.58 % and 1648440 MT
	(g). expected life of ash pond (number of years and months):	30 years
	co-ordinates (Lat and Long): (Please specify minimum 4 co-ordinates)	25°53'24.51"N 71°19'44.89"E 25°53'25.47"N 71°20'2.82"E 25°53'12.23"N 71°20'3.62"E 25°53'11.52"N 71°19'45.68"E
	(f). type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining	HDPE
	(g). mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD)	Dry Ash
	(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):	-
	(k). Last date when the dyke stability study was conducted and name of the organization who conducted the study:	-

19.	Quantity of legacy ash utilized (MTPA):	
	i. Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):	9054
	ii. Cement manufacturing:	24741
	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 flyover 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):	-

20. Summary:

Detail	Quantity generated (MTP)	Quantity utilized (MTP) and (per cent)	Balance quantity (MTP)
Current ash during reporting period	867407	838210 96.634 %	29197
Legacy ash	-	33795	122363
Total	867407	872005 100.53 %	151560

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: - MoEFCC-coalash@gov.in	
22.	Signature of Authorized Signatory