



**JSW Energy Limited**

Ref: JSWEL/ENV/836

Date: 28<sup>th</sup> April 2023

Village : Nandiwade, Post : Jaigad,  
Tal. & Dist. : Ratnagiri - 415 614.  
Maharashtra, India.

CIN. : L74999MH1994PLC077041

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To,  
The Additional Principal Chief Conservator of Forests (Central)  
Ministry of Environment, Forest & Climate Change  
Regional Office (WCZ)  
Ground Floor, East Wing,  
New Secretariat Building,  
Civil Lines, Nagpur – 440001

Sub: Submission of annual fly ash returns for the period of 01.04.2022 to 31.03.2023

Ref: Fly ash notification S.O 5481 (E) dated 31<sup>st</sup> December 2021

Dear Sir,

With reference to the above subject, we hereby submit the compliance report for fly ash generation and utilisation for the year 2022-23 in the prescribed format.

Kindly acknowledge the receipt of the same

Thanking you

Yours faithfully,  
For JSW Energy Limited

Harinath Chakravarthy

General Manager (OS &TS and Environment & Chemistry)

Copy to –  
1) Director, MoEF, Delhi  
2) Chairman, CPCB, Delhi  
3) Sub Regional Officer, MPCB Ratnagiri



Part of O. P. Jindal Group

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Bandra (East), Mumbai - 400 051

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## Ash Compliance Report (for the period 1st April-31st March 2023)

Sr. No.	Details	
1	Name of Power Plant	JSW Energy Ltd, 1200 MW Thermal Power Plant At Village Nandiwade Post Jaigad Tal & Dist - Ratnagiri
2	Name of the company	JSW Energy Ltd
3	District	Ratnagiri
4	State	Maharashtra
5	Postal address for communication:	At Village Nandiwade Post Jaigad Tal & Dist - Ratnagiri - 415614
6	E-mail:	<a href="mailto:prasad.samak@jsw.in">prasad.samak@jsw.in</a>
7	Power Plant installed capacity (MW):	1200
8	Plant Load Factor (PLF):	59.39%
9	No. of units generated (MWh):	6242896
10	Total area under power plant (ha): (including area under ash ponds)	350
11	Quantity of coal consumption during reporting period (Metric Tons per Annum):	30.588 Lakh MT
12	Average ash content in percentage (per cent):	6.87%
13	Quantity of current ash generation during reporting period	2.10203 Lakh MT
	(Metric Tons per Annum):	
	Fly ash (Metric Tons per Annum):	1.966 Lakh MT
	Bottom ash (Metric Tons per Annum):	0.1354 Lakh MT
14	Capacity of dry fly ash storage silo(s) (Metric Tons) :	2 X 1000 MT
15	Details of utilisation of current ash generated during reporting period	
(a)	Total quantity of current ash utilised (MTPA) during reporting period:	2.21625 Lakh MT
(b)	Quantity of fly ash utilised (MTPA):	2.137 Lakh MT
i	Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels)	0.3078 Lakh MT
ii	Cement manufacturing:	0.43931 Lakh MT
iii	Ready mix concrete:	1.39009 Lakh MT
iv	Ash and Geo-polymer based construction material:	NA
v	Manufacturing of sintered or cold bonded ash aggregate:	NA
vi	Construction of roads, road and flyover embankment:	NA
vii	Construction of dams:	NA
viii	Filling up of low lying area:	NA
ix	Filling of mine voids:	NA
x	Use in overburden dumps:	NA
xi	Agriculture:	NA
xii	Construction of shoreline protection structures in coastal districts:	NA


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xiii	Export of ash to other countries:	NA
xiv	Others (please specify):	NA
(C.)	Quantity of bottom ash utilised (MTPA):	NA
i	Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels)	NA
ii	Cement manufacturing:	NA
iii	Ready mix concrete:	NA
iv	Ash and Geo-polymer based construction material:	NA
v	Manufacturing of sintered or cold bonded ash aggregate:	NA
vi	Construction of roads, road and flyover embankment:	NA
vii	Construction of dams:	NA
viii	Filling up of low lying area:	0.07902 Lakh MT
ix	Filling of mine voids:	NA
x	Use in overburden dumps:	NA
xi	Agriculture:	NA
xii	Construction of shoreline protection structures in coastal districts:	NA
xiii	Export of ash to other countries:	NA
xiv	Others (please specify):	NA
	Total quantity of current ash unutilised (MTPA) during reporting period:	NIL
16	Percentage utilisation of current ash generated during reporting period (per cent):	NIL
17	Details of disposal of ash in ash ponds	NIL
(a)	Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31st March (excluding reporting period):	NIL
(b)	Quantity of ash disposed in ash pond(s) during reporting period (Metric Tons):	NIL
(c)	Total quantity of water consumption for slurry discharge into ash ponds during reporting period (m3):	NA
(d)	Total number of ash ponds:	
	(i) Active:	ONE
	(ii) Exhausted (yet to be reclaimed):	NA
	(iii) Reclaimed:	NA
(e)	total area under ash ponds (ha):	10
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 Reclaimed	Active Ash Pond
(b)	Date of start of ash disposal in ash pond (DD/MM/YYYY or MMYYYY):	6/1/2012

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(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)	NA
(d)	area (hectares):	10
(e)	dyke height (m):	5 meters
(f)	volume (m3):	1,00,000 Cum
(g)	quantity of ash disposed as on 31st March (Metric Tons):	36355 MT
(h)	available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons):	About 60,000 MT (60%)
(i)	expected life of ash pond (number of years and months):	25 years
(j)	co-ordinates (Lat and Long): (please specify minimum 4 co-ordinates)	1) 17°17'2.17"N/ 73°13'2.59"E 2) 17°16'46.86"N/73°13'9.65"E 3) 17°16'47.16"N/ 73°13'14.79"E 4) 17°16'56.97"N/ 73°13'14.13"E
(k)	type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining	HDPE lining provided
(l)	mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD)	HCSD
(m)	Ratio of ash: water in slurry mix (1:___):	80% Solids/20 % Liquid
(n)	Ash water recycling system (AWRS) installed and functioning: Yes or No	NA
(o)	Quantity of wastewater from ash pond discharged into land or water body (m3):	NA
(P)	Last date when the dyke stability study was conducted and name of the organisation who conducted the study:	NA
(q)	Last date when the audit was conducted and name of the organisation who conducted the audit:	NA
19	Quantity of legacy ash utilised (MTPA):	NA
i	Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):	NA
ii	Cement manufacturing:	NA
iii	Ready mix concrete:	NA
iv	Ash and Geo-polymer based construction material:	NA
v	Manufacturing of sintered or cold bonded ash aggregate:	NA
vi	Construction of roads, road and flyover embankment:	NA
vii	Construction of dams:	NA
viii	Filling up of low lying area:	NA
ix	Filling of mine voids:	NA
x	Use in overburden dumps:	NA
xí	Agriculture:	NA

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xii	Construction of shoreline protection structures in coastal districts;	NA		
xiii	Export of ash to other countries:	NA		
xiv	Others (please specify):	NA		
20	Summary:			
(a)	Details	Quantity generated (MTP)	Quantity utilised (MTP) and (per cent)	Balance quantity (MTP)
(b)	Current ash during reporting period	210203 MT	221625 MT	NA
(c)	Legacy ash	NA	11422 MT	36355 MT
	Total			
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:- moefcccoalash@gov.in	Complied		
22	Signature of Authorised Signatory	 Harinath Chakravarthy General Manager (OS &TS and Environment & Chemistry)		