ODISHA POWER GENERATION CORPORATION LTD.

(A Government Company of the State of Odisha) CIN: U401040R1984SG001429

Ib Thermal Power Station

Banharpali, Dist.: Jharsuguda, Odisha - 768 234, India Plant Manager : (+916645) 289266, Fax: (+916645) 222-230 Factory Manager : (+916645) 222224, Fax: (+916645) 222-230



Letter No. ITPS/2622/WE April 30, 2024

The Director & Div. Head, IPC-II Division Central Pollution Control Board East Arjun Nagar, Delhi-110032

Sub: Submission of Annual Implementation Report of Ash for the period from 01.04.2023 to 31.03.2024 for Ib Thermal Power Station Unit#1&2(2X210MW) &Unit#3&4 (2X660MW) of Odisha Power Generation Corporation Ltd.

Ref: Fly Ash Notification, Dated 31.12.2021

Dear Sir,

This has reference to the above subject and cited reference.

Please find enclosed the annual implementation report of ash for Ib Thermal Power Station Unit#1&2 (2X210 MW) & Unit#3&4 (2X660 MW) of Odisha Power Generation Corporation Ltd. Jharsuguda for the period from 01.04.2023 to 31.03.2024 duly filled in prescribed format.

Thanking you,

Yours Sincerely,

Schanta Mahapatra

Sr. VP (0&M)

Enlc: Annual implementation report of ash

CC: 1. Member Secretary, State Pollution Control Board, Bhubaneswar, Odisha

2. Director, Ministry of Environment Forest and Climate Change, Eastern Regional office, Chandrasekharpur, Bhubaneswar

Corporate Office: Zone-A, 7th Floor, Fortune Tower Chandrasekharpur, Bhubaneswar - 751023, Odisha

Ph: 0674-2303765-66, Fax : 0674-2303755 website : www. opgc.co.in





Ash Compliance Report for the period 01.04.2023 to 31.03.2024 Ib Thermal Power Station Unit#1&2 (2X210 MW) of Odisha Power Generation Corporation Ltd. Jharsuguda

Sl.	Details	
No.		
1.	Name of Power Plant	Ib Thermal Power Station (2X210 MW Unit#1 & Unit#2)
2.	Name of the company	Odisha Power Generation Corporation Limited.
3.	District	Jharsuguda
4.	State	Odisha
5.	Postal address for communication:	At: Banharpali Post: Banharpali Jharsuguda-768 234, Odisha
6.	E-mail:	parthasarathi.panda@opgc.co.in
7.	Power Plant installed capacity (MW):	420 MW (2X210 MW)
8.	Plant Load Factor (PLF):	67.94%
9.	No. of units generated (MWh):	2506483
10.	Total area under power plant (ha): (including area under ash ponds)	786 Ha (Additional 293.81 ha is under MGR System)
11.	Quantity of coal consumption during reporting period (Metric Tons per Annum):	2276887 MT
12	Average ash content in percentage (per cent):	41.45%
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):	Total Ash:943693 Fly Ash:754955 Bottom Ash:188738
14.	Capacity of dry fly ash storage silo(s) (Metric Tons):	620 MT (OPGC Silo-120 MT, Ultratech Silo-250 X2 MT)
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:	a. 372897 MT b.271697 MT i. 8497 MT viii. 263200MT

((xiv) Others (please specify):	
(-) 0	Charles (Lauren al artifaction (MTDA)	C 101200 N.T.
(c) Qu (i)	antity of bottom ash utilised (MTPA): Fly ash based products (bricks or blocks or tiles or fibre	C. 101200 MT
(1)	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:	" 101200 NATE
(vii)	Construction of dams:	vii. 101200 MT
	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)	districts:	
(xiv)	Export of ash to other countries: (xiv) Others (please specify):	
period:	quantity of current ash unutilised (MTPA) during reporting	
		I .

Percentage utilisation of current ash generated during reporting period (per cent):	39.51%
Details of disposal of ash in ash ponds (a) Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31st March (excluding reporting period): (b) Quantity of ash disposed in ash pond(s) during reporting period (Metric Tons): (c) Total quantity of water consumption for slurry discharge into ash ponds during reporting period (m³): (d) Total number of ash ponds: (i) Active: (ii) Exhausted (yet to be reclaimed): (iii) Reclaimed:	 b. Ash Pond-C-570796 MT c. 1143633m3 (Fresh Water) d. i.Active-2 Nos (Ash Pond-A & C)
(e) Total area under ash ponds (ha):	
Individual ash pond details Ash pond-1,2, etc (please provide below mentioned details separately, if number of ash ponds is more than one) Status: Under construction or Active or Exhausted or Reclaimed (a) Date of start of ash disposal in ash pond (DD/MM/YYYY or MMYYYY): (b) Date of stoppage of ash disposal in ash pond after	Ash Pond C-17.04.2017
completing its capacity (DD/MM/YYYY or MM/YYYY): (Not applicable for active ash ponds) (c) area (hectares):	b. Ash Pond A- Not Applicable Ash Pond B-31.03.2021 Ash Pond C-Not Applicable
 (d) dyke height (m): (e) volume (m³): (f) quantity of ash disposed as on 31st March (Metric Tons): 	c. Ash Pond-A:60.7 Ha Ash Pond-B:97.16 Ha Ash Pond-C:46.9 Ha
 (g) available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons): (h) expected life of ash pond (number of years and months): (i) co-ordinates (Lat and Long): (please specify minimum 4 co-ordinates) 	d. Ash Pond A-20.35 m Ash Pond B-19 m Ash Pond C-16.5 m (Up to RL 208m, height raising of 3 m in progress)
 (j) type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining (k) mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or 	e. Ash Pond A-56 Lakh m3 Ash Pond B-107 Lakh m3 Ash Pond C-73.5 Lakh m3 (Up to RL 208m
LCSD) (l) Ratio of ash: water in slurry mix (1:):	f. Ash Pond A-67 Lakh MT Ash Pond B-128 Lakh MT Ash Pond C-88 Lakh MT (RL 208 m) g. Ash Pond A-9 Lakh MT
(m) Ash water recycling system (AWRS) installed and functioning: Yes or No	(Height raising from 208 m to 209.5 m) Ash Pond B-Nil Ash Pond C- 5 Lakh MT
(n) Quantity of wastewater from ash pond discharged into land or water body (m3):	h. Ash Pond A-1 year Ash Pond B-Not applicable Ash Pond C-31.12.2024 Till RL-208 m (Height raising work of 3 m in progress)
(o) Last date when the dyke stability study was conducted and name of the organisation who conducted the study:	i. Ash Pond-A

	(p) Last date when the organisation who co	audit was conducted and name of the onducted the audit:	Ash Pond-B Latitude: 21°41'9.43"N Longitude: 83°53'54.03 Ash Pond-C Latitude: 21°41'9.43"N Longitude: 83°54'24.00 j. The active ash pond imembrane. k. Wet disposal in Ash pond) with LCSD system. Ash: Water = 1:1.5 m. Ash water recyclin pumps of 1200 m3/Hi are kept operational n. No water discharged	B"E N B"E N D"E is lined with 1.5mm HDPE Pond-A & C (Active ash stem. g system installed with 3 r discharge rate each. Two and one standby. to land or any water body. ility audit was 30.03.2023
19.	Quantity of legacy ash utilise	d (MTPA):	Nil	
	i. Fly ash based products	(bricks or blocks or tiles or		
	fibre cement sheets or ii. Cement manufacturing	pipes or boards or panels):		
	iii. Ready mix concrete:	;		
		based construction material:		
		red or cold bonded ash aggregate:		
		road and flyover embankment:		
	vii. Construction of dams:			
	iii. Filling up of low lying	area:	- E - 1/	
	ix. Filling of mine voids:		9	
	x. Use in overburden dun	nps:	A = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	xi. Agriculture: cii. Construction of shoreli	ne protection structures in coastal		
	districts;	me protection structures in coastar		
	iii. Export of ash to other	countries:	ű.	
			8	
	iv. Others (please specify)	:		
20.	Summary:			
	Details		Quantity utilised	Balance quantity (MTP)
			(MTP) and (per cent)	
	Current ash during reporting period	943693 MT	372897 MT	570796 MT
	Legacy ash	Nil	Nil	NIST
	Total	943693 MT		Nil
1		743073 WII	372897 MT	570796 MT
1.	power plant and ash ponds ma moefcccoalash@gov.in		-	
22.	Signature of Authorized Signa	itory	Szekginta Ma	rapolin

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Ash Compliance Report for the period 01.04.2023 to 31.03.2024 Ib Thermal Power Station Unit#3&4 (2X660 MW) of Odisha Power Generation Corporation Ltd. Jharsuguda

Sl. No.	Details	
1.	Name of Power Plant	Ib Thermal Power Station (2X660 MW Unit#3 & Unit#4)
2.	Name of the company	Odisha Power Generation Corporation.
3.	District	Jharsuguda
4.	State	Odisha
5.	Postal address for communication:	At: Banharpali
		Post: Banharpali
		Jharsuguda-786 234, Odisha
6.	E-mail:	Parthasarathi.panda@opgc.co.in
7.	Power Plant installed capacity (MW):	1320 MW (2X660 MW)
8.	Plant Load Factor (PLF):	80.15%
9.	No. of units generated (MWh):	9293184
10.	Total area under power plant	786 Ha (Additional 293.81 ha is under MGR System)
10.	(ha): (including area under ash ponds)	
11.	Quantity of coal consumption during reporting	
10	period (Metric Tons per Annum):	6478715 MT
12	Average ash content in percentage (per cent):	40.69%
13.	Quantity of current ash generation during reporting period (Metric Tons per Annum):	Total Ash: 2635936 MT Fly Ash: 2108749 MT
	Fly ash (Metric Tons per Annum):	Bottom Ash: 527187 MT
	Bottom ash (Metric Tons per Annum):	
14.	Capacity of dry fly ash storage silo(s) (Metric Tons):	8100 MT (3 Nos of Silos of 2700 MT each)
15	Details of utilisation of current ash generated	a.501412 MT
		b.
	(MTDA) dyming non-onting nonicide	ii.36096 MT vi.11986 MT
	(b) Quantity of fly ash utilised (MTPA):	vii.143262 MT
	(i) Fly ash based products (bricks or blocks	viii. 63500 MT
	or tiles or fibre cement sheets or pipes	VIII 05500 1121
	or boards or panels) (ii) Cement manufacturing:	xiv. 210752 MT (Quarry Filling)
	(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) (i)	Quantity of bottom ash utilised (MTPA):) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or	C vii.35816 MT
(ii	boards or panels): i) Cement manufacturing:	
(ii (iv	•	
(v	Manufacturing of sintered or cold bonded ash aggregate: (vi) Construction of roads, road and flyover embankment:	
(v	vii) Construction of dams: viii) Filling up of low lying area:	
(ix	Use in overburden dumps:	
(xi		
	iii) Construction of shoreline protection structures in coastal districts:	
(xi	iv) Export of ash to other countries: (xiv) Others (please specify):	
	tal quantity of current ash unutilised (MTPA) ing reporting period:	

16. Percentage utilisation of current ash generated during reporting period (per cent): 17. Details of disposal of ash in ash ponds (a) Total juntity of ash disposal of ash ponds (certaing reporting period) (b) Quantity of ash disposal of in sh ponds) during reporting period (m²): (b) Quantity of ash disposal of insh ponds) during reporting period (m²): (c) Total quantity of water consumption for shurry discharge into ash ponds during reporting period (m²): (d) Total number of ash ponds: (ii) Reclaimed: (c) Total area under ash ponds (ha): 18. Individual ash pond details Ash pond-1,2, etc please provide below mentioned details synarche); if mulner of ash ponds in ash pond (DD/MM/YYY) or MMYYYYY); (c) Date of start of ash disposal in ash pond (DD/MM/YYYY) or MMYYYYY); (c) Date of stopage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MMYYYYY); (c) Date of stopage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MMYYYYY); (c) Date of stopage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MMYYYYY); (c) Date of stopage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MMYYYYY); (c) Date of stopage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MMYYYYY); (c) Date of stopage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MMYYYYY); (c) Date of stopage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MMYYYYY); (d) Date of stopage of ash disposal in ash pond after completing its capacity (DD/MM/YYY) or MMYYYY; (e) Date of stopage of none befurther disposed (Metric Tons); (e) quantity of ash one befurther disposed (Metric Tons); (e) queried life of ash pond (mumber of capacity (DD/MM/YYY) or over the disposal in ash pond (DD/MM/YYY			ı	
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specify minimum 4 co-ordinates) (k) type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining (l) mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD) (m) Ratio of ash: water in slurry mix (1:): Tilia Ash Pond Phase I: Latitude: 21°38'41.20"N Longitude: 83°55'4.26"E Tilia Ash Pond Phase II: Latitude: 21°38'52.82"N Longitude: 83°55'26.06"E			i.	T'''
(k) type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining (l) mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD) (m) Ratio of ash: water in slurry mix (1:): In progress): The fire period is calculated based on Mi ash utilization. However, the life span will increase with increased ash utilization. Tilia Ash Pond Phase I: Latitude: 21°38'41.20"N Longitude: 83°55'4.26"E Tilia Ash Pond Phase II: Latitude: 21°38'52.82"N Longitude: 83°55'26.06"E				
Ining or LDPE lining or clay lining or No lining (I) mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD) (m) Ratio of ash: water in slurry mix (1:): Tilia Ash Pond Phase I: Latitude: 21°38'41.20"N Longitude: 83°55'4.26"E Tilia Ash Pond Phase II: Latitude: 21°38'55.426"E Tilia Ash Pond Phase II: Longitude: 83°55'4.26"E		(k) type of lining carried in ash pond: HDPE		
(I) mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD) (m) Ratio of ash: water in slurry mix (1:): Latitude: 21°38'41.20"N Longitude: 83°55'4.26"E Tilia Ash Pond Phase II: Latitude: 21°38'52.82"N Longitude: 83°55'26.06"E				
whether HCSD or MCSD or LCSD) (m) Ratio of ash: water in slurry mix (1:): Longitude: 83°55'4.26"E Tilia Ash Pond Phase II: Latitude: 21°38'52.82"N Longitude: 83°55'26.06"E		No lining (1) mode of diamonal Dry diamonal or work	j.	
whether HCSD or MCSD or LCSD) (m) Ratio of ash: water in slurry mix (1:): Longitude: \$3°353 4.26 E Tilia Ash Pond Phase II: Latitude: 21°38'52.82"N Longitude: 83°55'26.06'E		slurry (in case of wet slurry please specify		
(m) Ratio of ash: water in slurry mix (1:): Latitude: 21°38'52.82"N Longitude: 83°55'26.06'E				
(m) Ratio of ash: water in slurry mix (1:): Longitude: 83°55'26.06"E				
		(m) Ratio of ash: water in slurry mix (1:):		
k. Both Phase I & Phase II are lined with 1.5mm HDPE membrane.				
			k.	Both Phase I & Phase II are lined with 1.5mm HDPE membrane.

	(q) Last date when the au and name of the orga conducted the audit:	rater from ash pond or water body (m3): Whe stability study was e of the organisation rudy: udit was conducted unisation who	 m. Ash:Water = 1:0.66 n. Ash water recycling systedischarge rate each. Two o. No water discharged to lap. The last date of stability a Chennai. 	em installed with 3 pumps of 1000 m3/hr are kept operational and one standby.
	Quantity of legacy ash utilised i. Fly ash based products or tiles or fibre cement boards or panels): ii. Cement manufacturing iii. Ready mix concrete: iv. Ash and Geo-polymer construction material: v. Manufacturing of sinte ash aggregate: vi. Construction of roads, embankment: vii. Construction of dams: iii. Filling up of low lying area: ix. Filling of mine voids: x. Use in overburden	(bricks or blocks sheets or pipes or : based red or cold bonded	Nil	
	dumps: xi. Agriculture: cii. Construction of shoreli structures in coastal dis iii. Export of ash to other countries: iv. Others (please specify):			
20.	dumps: xi. Agriculture: xii. Construction of shoreli structures in coastal dis iii. Export of ash to other countries: iv. Others (please specify): Summary:	stricts;	Quantity utilised	Balance quantity (MTP)
20.	dumps: xi. Agriculture: cii. Construction of shoreli structures in coastal dis iii. Export of ash to other countries: iv. Others (please specify):	stricts;	Quantity utilised (MTP) and (per cent)	Balance quantity (MTP)
20.	dumps: xi. Agriculture: xii. Construction of shoreli structures in coastal dis iii. Export of ash to other countries: iv. Others (please specify): Summary:	Quantity generated (MTP)		Balance quantity (MTP) 2134524 MT
20.	dumps: xi. Agriculture: xii. Construction of shoreli structures in coastal dis iii. Export of ash to other countries: iv. Others (please specify): Summary: Details Current ash during reporting	Quantity generated (MTP)	(MTP) and (per cent)	
20.	dumps: xi. Agriculture: xii. Construction of shoreli structures in coastal dis iii. Export of ash to other countries: iv. Others (please specify): Summary: Details Current ash during reporting period	Quantity generated (MTP) 2635936 MT	(MTP) and (per cent) 501412 MT	2134524 MT
	dumps: xi. Agriculture: tii. Construction of shoreli structures in coastal dis tiii. Export of ash to other countries: iv. Others (please specify): Summary: Details Current ash during reporting period Legacy ash	Quantity generated (MTP) 2635936 MT NIL 2635936 MT	(MTP) and (per cent) 501412 MT Nil	2134524 MT NIL