राष्ट्रीय प्रौद्योगिकी संस्थान
NATIONAL INSTITUTE OF TECHNOLOGY
राउरकेला ROURKELA- 769008, ओडिशा ODISHA

RIGHT TO INFORMATION

FTS/ 250902-7210

No. NITR/CE/2025/L/2100

Date: 02/09/2025

To

The Member Secretary
The Ministry of Environment, Forest and Climate Change

Sub: Submission of Annual Ash Compliance Report (for the period of 1st April 2024-31st March 2025) of IND SYNERGY LIMITED, AFBC 10 MW POWER PLANT, Raigarh (C.G.)

Respected Sir,

With reference to the subjected cited above, I am submitting herewith the softcopy of Annual Ash Compliance Report along with month-wise ash generation and utilization data of IND SYNERGY LIMITED, AFBC 10 MW POWER PLANT for the period of 1st April 2024-31st March 2025. The attachments also include the shapefiles of thermal power plant.

Kindly acknowledge the receipt of the same.

With warm regards,

Yours sincerely,

Spsingh
02/09/2025

Prof. Suresh Prasad Singh
Professor & Head
Department of Civil Engineering
National Institute of Technology Rourkela
Rourkela-769008, Odisha

Prof. Suresh Prasad Singh,
Department of Civil Engineering,
National Institute of Technology-Rourkela
Rourkela, Odisha

Cc: 1) The Member Secretary, Chhattisgarh Environment Conservation Board, (C.G.)
Email: hocecb@gmail.com
2) "power cpcb" <power.cpcb@gov.in>

IND SYNERGY LIMITED, AFBC (10 MW) POWER PLANT
KOTMAR, RAIGARH (C.G)

Ash Compliance Report (for the period 1st April 2024 to 31st March 2025)		
Sl No.	**Details**	
1	Name of Power Plant	IND SYNERGY LIMITED, AFBC (10 MW), POWER PLANT
2	Name of the Company	IND SYNERGY LIMITED
3	District	RAIGARH
4	State	CHHATTISGARH
5	Postal Address for communication	Village: Kotmar & Mahuapali Distt. Raigarh (Chhattisgarh)-496001
6	E-mail	jksoni@indsynergy.com
7	Power Plant installed capacity MW)	AFBC (10 MW)
8	Plant Load Factor (PLF)	34.23%
9	No. of units generated (MWh)	30070.90 MWh
10	Total area under power plant (ha) (including area under ash ponds)	4.02 ha.
11	Quantity of coal consumption during reporting period (Metric Tons per Annum)	Coal: 23983.65 MT Dolachar: 19251.63 MT Coal Fines: 3884.78 MT Washery Reject: 2681.02 MT Total: 49801.08 MT
12	Average ash content in percentage (per cent)	53.76%
13	Quantity of current ash generation during reporting period (metric Tons per Annum) : (2023-24 FY)	26772 MT
	Fly ash (Metric Tons per Annum) :	20079 MT
	Bottom ash (Metric Ton per Annum) :	6693 MT
14	Capacity of dry fly ash storage silo (s) (Metric Tons)	150MT
15	Details of utilisation of current ash generated during reporting period (a) Total Quantity of current ash utilised (MTPA) during reporting period:	26772 MT
	(b) Quantity of fly ash utilised (MTPA):	26772 MT (Including Bottom Ash)
	(i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):	7224 MT
	(ii) Cement manufacturing:	-
	(iii) Ready mix concrete:	-
	(iv) Ash and Geo-polymer based construction material:	-
	(v) Manufacturing of sintered or cold bonded ash aggregate:	-

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	(vi) Construction of roads, road and flyover embankment:	7583 MT(Used inside the plant premises)
	(vii) Construction of dams:	-
	(viii) Filling up of low lying area:	11965 MT(Used inside the plant premises)
	(ix) Filling of mine voids:	-
	(x) Use in overburden	-
	(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 utilized (MTPA):	Included in Fly ash
	(i) Bottom 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	-
	(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 unutilised (MTPA) during reporting period:	Nil
16	Percentage utilization of current ash unutilized (MTPA) during reporting period:	100%
17	Details of disposal of ash in ash ponds	No Ash Pond
	(a) Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31st March (excluding reporting period): (Till 31.03.2023)	NA
	(b) Quantity of ash disposed in ash pond (s) during reporting period (Metric tons):(2023-24)	NA
	(c) Total quantity of water consumption for slurry discharge in ash ponds during reporting period (m^3):(2023-24)	NA
	(d) Total number of ash ponds: (i) Active:	NA

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	(ii) Exhausted (yet to be reclaimed): (iii) Reclaimed:			
	(e) Total area under ash ponds (ha):			
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)	**Ash Pond-1**	**Ash Pond-2**	**Ash Pond-3**
	(a)Status: Under construction or Active or Exhausted or Reclaimed	NA.		
	(b) Date of start of ash disposal in ash pond (DD/MM/YYYY or MMYYYY):	NA.		
	(c) Date of stoppage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY): (Not applicable for active ash ponds)	NA.		
	(d) Area (hectares):	NA.		
	(e) Dyke height (m):	NA.		
	(f) Volume (m^3):	NA.		
	(g) Quantity of ash disposed as on 31st March,2023 (Metric Tons): [Volume x Bulk density(0.95 kg/m^3)]	NA.		
	(h) Available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons):	NA.		
	(i) Expected life of ash pond (no of years and months):	NA.		
	(j) Co-ordinates (Lat. and Long.): (please specify minimum 4 co-ordinates)	NA		
	(k) Type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining	NA.		
	(l) Mode of disposal : Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD)	NA.		
	(m) Ratio of ash : water in slurry mix (1 : _):	NA.		
	(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 (m^3):	NA.		
	(p) Last date when the dyke stability study was conducted and name of the organisation who conducted the study:			
	(q) Last date when the audit was conducted and name of the organisation who conducted the audit:	Prof. S. P. Singh, NIT Rourkela in the Month of November 2024		
19	Quantity of legacy ash utilised (MTPA):	Nil		
	(i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):	-		

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	(i) Cement manufacturing:	-
	(i) Ready mix concrete:	-
	(i) Ash and Geo-polymer based construction material:	-
	(i) Manufacturing of sintered or cold bonded ash aggregate:	-
	(i) Construction of roads and flyover embankment:	-
	(i) Construction of dams:	-
	(i) Filling up of low lying area:	-
	(i) Filling of mine voids:	-
	(i) Use in overburden:	-
	(i) Agriculture:	-
	(i) Construction of shoreline protection structures in coastal districts:	-
	(i) Export of ash to other countries:	-
	(i) Others (please specify):	-

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Details	Quantity Generated (MTP)	Quantity Utilized (MTP) & (percent)	Balance Quantity (MTP)
Current ash during reporting period (Apr 2023-Mar 2024)	26772 MT	26772 MT & (100%)	Nil
Legacy ash	Nil	Nil	Nil
Total	**26772 MT**	**26772 MT & (100%)**	**Nil**

21	Any other information:	Major portion of generated ash in the reporting period has been utilised within the premises of the power plant for filling of low lying areas and road construction. Proper soil cover, grading and plantation work may be taken up in those areas. The power plant may explore other better ways of utilisation of generated ash.
	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	1. Annual ash audit report. 2. Month wise ash utilisation data. 3. Shapefile.
22	Signature of Authorised Signatory	spsingh 02/09/2025 **Prof. Suresh Prasad Singh** Prof. Suresh Prasad Singh Professor & Head Department of Civil Engineering ational Institute of Technology Rourkela Rourkela-769008, Odisha

IND SYNERGY LIMITED, AFBC (10 MW), POWER PLANT, KOTMAR, RAIGARH (C.G)										
Ash Generation and Utilization Month-wise Report (April 2024-March 2025)										
Month	Ash Generated (MT)	Ash Utilization (MT)								
		Supply to cement plant	Brick making	Land filling	Mine filling	Road and flyover embankments	Others (Specify)	Total utilization	Utilization (%)	Remarks
April-24	4798	-	1512	2288	-	998	-	4798	100%	-
May-24	4824	-	1262	2637	-	925	-	4824	100%	-
June-24	4018	-	868	2160	-	990	-	4018	100%	-
July-24	3223	-	907	1162	-	1154	-	3223	100%	-
Aug-24	1119	-	451	-	-	668	-	1119	100%	-
Sept-24	1955	-	501	701	-	753	-	1955	100%	-
Oct-24	2731	-	549	1530	-	652	-	2731	100%	-
Nov-24	2795	-	603	1480	-	712	-	2795	100%	-
Dec-24	1309	-	571	7	-	731	-	1309	100%	-
Jan-25	0	-	0	0	-	0	-	0	100%	-
Feb-25	0	-	0	0	-	0	-	0	100%	-
Mar-25	0	-	0	0	-	0	-	0	100%	-
Total	**26772**		**7224**	**11965**		**7583**		**26772**	100%	

Note: The term ash indicates both fly ash and bottom ash

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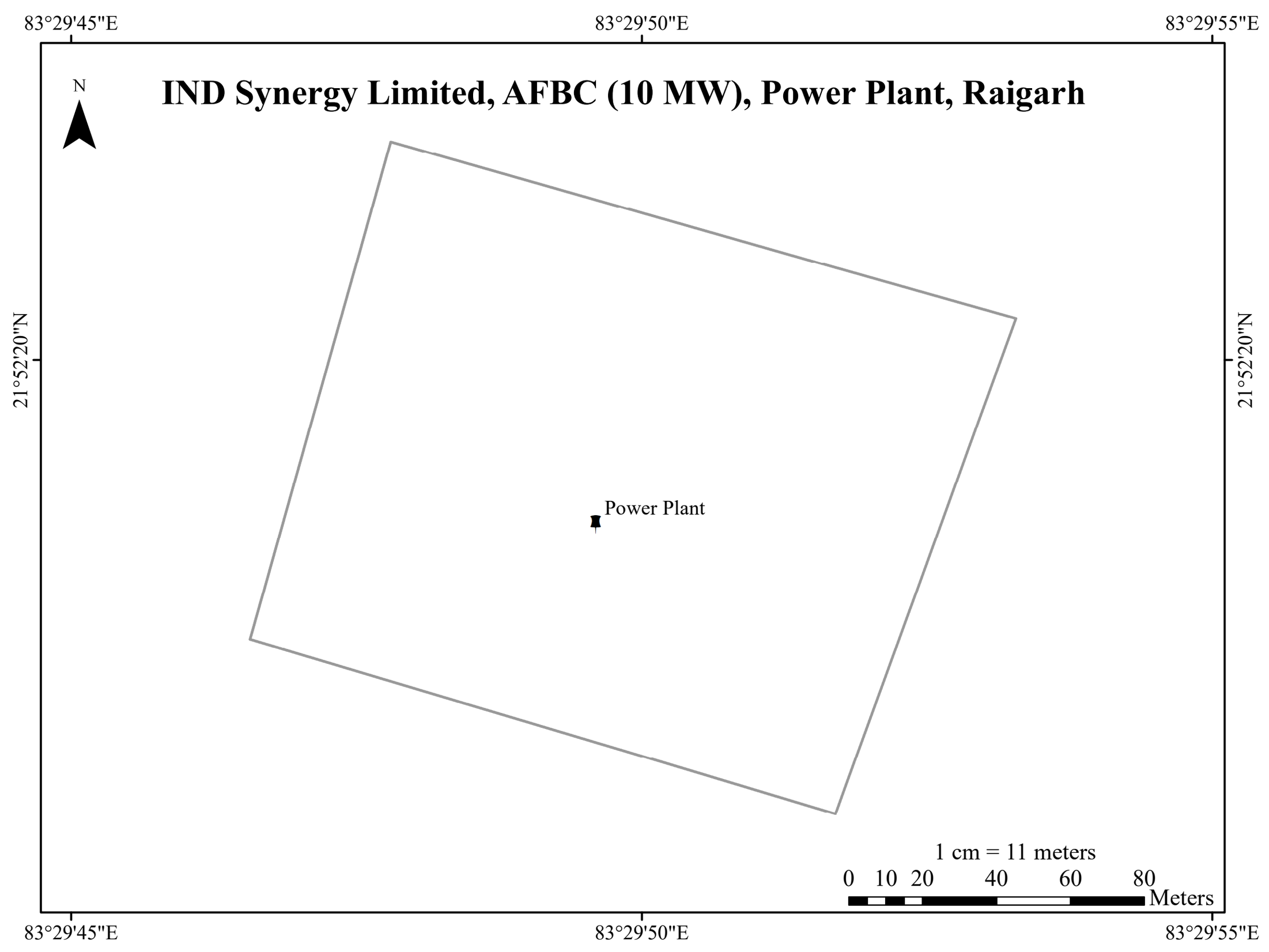
83°29'45"E
83°29'50"E
83°29'55"E
N
IND Synergy Limited, AFBC (10 MW), Power Plant, Raigarh
21°52'20"N
Power Plant
1 cm = 11 meters
0 10 20 40 60 80
Meters