

## STATUS OF FLYASH UTILISATION BY THERMAL POWER PLANTS OF ORISSA (2000-2001)

SI No	Name of The Plant, Address & Capacity	Coal Consumption during 2000-2001 MT	Power Generated during 2000-2001 MU	Qty. of Ash Generated during 2000-2001 (MT)	Disposal Method	Brick Making (MT)	Supplied to Industry/ Other Agency (MT)	Land Filling (MT)	Embankment/ Dyke Raising (MT)	Other purposes	Total Ash Utilised during 2000-2001 (MT)	% of Utilisation
1.	NALCO (CPP) PO-Nalconagar, Dist- Angul <b>720 MW</b>	3353895	4283.324	1218959	Hydro sluicing ash disposal system	Nil	140.0	66730	285987	400.00 MT (For Agricultural uses)	353257	29
2.	IB THERMAL POWER PLANT Po-Banaharpalli, Dist-Jharsuguda <b>420 MW</b>	2640000	3382.0	1000000	Wet collection Through Hopper	34	38 (cement industry)	Nil	Nil	Nil	72.0	<1
3.	INDIAN ALUMINIUM COMPANY LTD. (HIRAKUD) PO-Hirakud, Dist-Sambalpur <b>67.5 mw</b>	429638	523.902	161643	Dry ash disposal	1452	55123 Supplied to cement industries	105068 (Captive pond filling)	Nil	Nil	161463	100
4.	*INDIAN CHARGE CHROME LTD. PO-Choudwar, Dist-Cuttack <b>108 MW</b>	646445	770.317	304253	By Dumpers (Dry disposal)	Nil	Nil	303915	Nil	Nil	309915	99.9
5.	NTPC , KANIHA PO-Deepsikha, Dist-Angul <b>1000MW</b>	3565612		1426245	Wet disposal	Nil	Nil	151245	Nil	Nil	151245	11
6.	ROURKELA STEEL PLANT (CPP-I) PO-Rourkela, Dist: Sundergarh <b>117 MW</b>	827420	988.822	558000	Wet disposal	Nil	270	Nil	196000	Nil	196270	68
7.	ROURKELA STEEL PLANT (CPP-II) PO-Rourkela, Dist: Sundergarh <b>128 MW</b>	430640	32.46	150724	Wet disposal	Nil	5	Nil	Nil	Nil	5.0	<1%

SI No	Name of The Plant, Address & Capacity	Coal Consumption during 2000-2001 MT	Power Generated during 2000-2001 MU	Qty. of Ash Generated during 2000-2001 (MT)	Disposal Method	Brick Making (MT)	Supplied to Industry/ Other Agency (MT)	Land Filling (MT)	Embankment/ Dyke Raising (MT)	Other purposes	Total Ash Utilised during 2000-2001 (MT)	% of Utilisation
8.	CPP, BIRLA TYRES 25MW	134142	70390	78575	Dry disposal	Nil	Nil	78575	Nil	Nil	78575	100
9.	Talcher Thermal Power Station, (TTPS) PO-Talcher Thermal, Dist-Angul 460MW	2171163	2488.67	868465	Wet disposal	3235	9138	35000	Nil	227	47600	5.48
10.	BILT UNIT, SEWA,Gaganpur, Orissa	105845	73.410	33977	Dry disposal	500	Nil	33477	Nil	Nil	33977	100
11.	M/S J. K. Papermills, Jakaypur. Dist: Rayagada, Orissa, 95000 TPA	185622	127.303	69794	Dry disposal	12560	Nil	57234	Nil	Nil	69794	100
12.	M/S Alumina Refinery Complex, NALCO, P.O.-Damanjodi, Dist: Koraput	637076	265.147	263176	Wet disposal	Nil	Nil	263176	Nil	Nil	263176	100
13.	M/S Ballarpur Industries Ltd., po-Choudwar Dist: Cuttack	103329	23.00	28000	Dry & Wet disposal	150	300	27550	Nil	Nil	28000	100
14.	M/S Emami Paper Mill, P.O.-Balgopalpur Dist: Balasore 5 MW	28835		9000	Dry & Wet disposal							

\* The boilers are grate stoker fired type and hence 90% of the ash generated is bottom ash and rest 10% is fly ash.

## STATUS OF FLY ASH UTILISATION BY THERMAL POWER PLANTS OF ORISSA (2001-02)

SI No.	Name of The Plant, Address & Capacity	Coal Consumption during 2001-2002 (MT)	Power Generated during 2001-2002 (MU)	Qty. of Ash Generated during 2001-2002 (MT)	Disposal Method	Brick Making (MT)	Supplied to Industry/ Other Agency (MT)	Land Filling (MT)	Embankment / Dyke Raising (MT)	Other purposes (MT)	Total Ash Utilised during 2000-2001 (MT)	% of Utilisation
1	NALCO (CPP) PO-Nalconagar, Dist- Angul <b>720 MW</b>	3437380	4418.956	1309000	Hydro sluicing ash disposal system	Pilot plant under construction	208	131553	247855	333643	713259	54.48
2	IB THERMAL POWER PLANT Po-Banaharpalli, Dist-Jharsuguda <b>420 MW</b>	2192375	2598.808	849678	Wet collection Through Hopper	72	5124	Nil	Nil	Nil	5196	0.61
3	INDIAN ALUMINIUM COMPANY LTD. (HIRAKUD) PO-Hirakud, Dist-Sambalpur <b>67.5 mw</b>	433637	542.652	159589	Dry Ash Disposal	2462	62970 Supplied to cement industries	94157 (Captiv e pond filling)	Nil	Nil	159589	100
4	*INDIAN CHARGE CHROME LTD. PO-Choudwar, Dist-Cuttack <b>108 MW</b>	168583	207.301	78590	Dry Disposal (By dumpers)	Nil	Nil	69775	Nil	Nil	69775	88.8
5	NTPC , KANIHA PO-Deepsikha, Dist-Angul <b>1000MW</b>	-	-	1551114	Wet Disposal	5717	16768	143865	Nil	Nil	166350	11
6.	ROURKELA STEEL PLANT (CPP-I) PO-Rourkela, Dist: Sundergarh <b>117 MW</b>	430481	245.212	150794	Wet Disposal	Nil	1224	Nil	Nil	Nil	1224	0.81
7.	RSP (CPP-II) PO-Rourkela, Dist: Sundergarh <b>128 MW</b>				Wet Disposal							
8.	CPP, BIRLA TYRES <b>25MW</b>	133425	71.056	74377	Dry Disposal	Nil	Nil	74377	Nil	Nil	74377	100

SI No.	Name of The Plant, Address & Capacity	Coal Consumption during 2001-2002 (MT)	Power Generated during 2001-2002 (MU)	Qty. of Ash Generated during 2001-2002 (MT)	Disposal Method	Brick Making (MT)	Supplied to Industry/ Other Agency (MT)	Land Filling (MT)	Embankment/ Dyke Raising (MT)	Other purposes (MT)	Total Ash Utilised during 2000-2001 (MT)	% of Utilisation
9.	Talcher Thermal Power Station, (TTPS) PO-Talcher Thermal, Dist-Angul <b>460MW</b>	21994897	2465.615	896000	Wet Disposal	5717	4031	16400	90000	Nil	116148	12.9
10.	BILT UNIT, SEWA,Gaganpur, Orissa 2.0 MW	120790	56.41	41322	Dry Disposal	500	M/S Fair clay ash bricks & others	40822	Nil	Nil	41322	100
11.	M/S J. K. Papermills, Jakaypur. Dist: Rayagada, Orissa, <b>12 MW</b>	193302	133.98	73260	Dry Disposal	14652	Nil	58608	Nil	Nil	73260	100
12.	M/S Alumina Refinery Complex, NALCO, P.O.-Damanjodi, Dist: Koraput <b>55.5 MW</b>	744446	294.95	308871	Wet Disposal	Nil	Nil	308871	Nil	Nil	308871	100
13.	M/S Ballarpur Industries Ltd., po-Choudwar Dist: Cuttack <b>3.0 MW</b>	99425	22.525	26900	Dry & Wet Disposal	Nil	Nil	26900	Nil	Nil	26900	100
14.	M/S Emami Paper Mill, P.O.-Balgopalpur Dist: Balasore <b>5 MW</b>	50734	30.748	17757	Dry & Wet Disposal	3550	Nil	14027	Nil	Nil	17757	100

\* The boilers are grate stoker fired type and hence 90% of the ash generated is bottom ash and rest 10% is fly ash

## STATUS OF FLYASH UTILISATION BY THERMAL POWER PLANTS OF ORISSA (2002-2003)

SI No	Name of The Plant, Address & Capacity	Coal Consumption during 2002-2003 MT	Power Generated during 2002-2003 MU (Million Units)	Qty. of Ash Generated during 2002-2003 (MT)	Disposal Method	Brick Making (MT)	Supplied to Industry/ Other Agency (MT)	Land Filling (MT)	Embankment/ Dyke Raising (MT)	Other purposes	Total Ash Utilised during 2002-2003 (MT)	% of Utilisation
15.	NALCO (CPP) PO-NALCONAGAR, DIST- ANGUL (7x120)=840 MW	3702990		1423400	Hydro sluicing ash disposal system	Nil	Nil	5000	200000	600 Agriculture and Research	205600	14.4
16.	IB THERMAL POWER PLANT PO-BANAHARPALLI, DIST-JHARSUGUDA (2x210) = 420 MW	2228453	2621.13	890053	Wet disposal & Dry Disposal (Small scale)	233	Nil	Nil	18907	Nil	19140	2.15
17.	INDIAN ALUMINIUM COMPANY LTD. (HIRAKUD) PO-HIRAKUD, DIST-SAMBALPUR 67.5 MW	404137		143893	Dry ash disposal	1008	75830 Cement Industries	-	-	-	76838	53.4
18.	*INDIAN CHARGE CHROME LTD. PO-CHOUWAR, DIST-CUTTACK 108 MW	675809	842.677	314887	By Dumpers (Dry disposal)	110	Nil	289182 (Waste and Degrade d land)	Nil	-	289292	91.9
19.	NTPC , KANIHA PO-DEEPSIKHA, DIST-ANGUL 2x500=1000MW	4540000		1621173	Wet disposal	16085	24 Cement industry	63579	78199	14222 Ash products	172109	10.61
20.	ROURKELA STEEL PLANT (CPP-I) PO-ROURKELA, DIST: SUNDERGARH 3x25=75MW	502000		150000	Wet disposal	-	9200 Cement industry	15600	34300	-	59100	39.4
21.	NTPC, SAIL POWERCOMPANY RSP (CPP-II) PO-ROURKELA, DIST: SUNDERGARH 128 MW			245100	Wet disposal	-	-	-	150960	-	150960	61.6
22.	CPP, BIRLA TYRES 25MW	142494	73.107	30794	Dry disposal	6480	-	24314	-	-	30794	100

SI No	Name of The Plant, Address & Capacity	Coal Consumption during 2002-2003 MT	Power Generated during 2002-2003 MU (Million Units)	Qty. of Ash Generated during 2002-2003 (MT)	Disposal Method	Brick Making (MT)	Supplied to Industry/ Other Agency (MT)	Land Filling (MT)	Embankment/ Dyke Raising (MT)	Other purposes	Total Ash Utilised during 2002-2003 (MT)	% of Utilisation
23.	TALCHER THERMAL POWER STATION, (TTPS) DIST-ANGUL 4x60, 2x110= 460MW	1925000		770116	Wet disposal	7825	98 Cement industry	-	166000	1889 Ash based products	175812	26.02
24.	BILT UNIT, SEWA,GAGANPUR, ORISSA	139726	64.73	49568	Dry disposal	4000	-	45568	-	-	49568	100
25.	M/S J. K. PAPERMILLS, JAKAYPUR. DIST: RAYAGADA, ORISSA,	174000	132.812	73000	Dry disposal	14000	-	59000	-	-	73000	100
26.	M/S ALUMINA REFINERY COMPLEX, NALCO, P.O.-DAMANJODI, DIST: KORAPUT 3x18.5 = 55.5 MW	904563		381183	Wet disposal	-	-	-	-	-	-	0
27.	M/S BALLARPUR INDUSTRIES LTD., PO- CHOUDWAR DIST: CUTTACK	Closed	Closed	Closed	Dry & Wet disposal	Closed	Closed	Closed	Closed	Closed	Closed	Closed
28.	M/S EMAMI PAPER MILL, P.O.-BALGOPALPUR DIST: BALASORE 5 MW	48184		16864	Dry & Wet disposal	3375	-	13489	-	-	16864	100

\* The boilers are grate stoker fired type and hence 90% of the ash generated is bottom ash and rest 10% is fly ash.

## STATUS OF FLYASH UTILISATION BY THERMAL POWER PLANTS OF ORISSA (2003-2004)

Sl No	Name of The Plant, Address & Capacity	Coal Consumption during 2002-2003 MT	Power Generated during 2002-2003 MU (Million Units)	Qty. of Ash Generated during 2002-2003 (MT)	Disposal Method	Brick Making (MT)	Supplied to Industry/ Other Agency (MT)	Land Filling (MT)	Embankment/ Dyke Raising (MT)	Other purposes	Total Ash Utilised during 2002-2003 (MT)	% of Utilisation
29.	NALCO (CPP) PO-NALCONAGAR, DIST- ANGUL (7x120)=840 MW	3702990		1423400	Hydro sluicing ash disposal system	Nil	Nil	5000	200000	600 Agriculture and Research	205600	14.4
30.	IB THERMAL POWER PLANT PO-BANAHARPALLI, DIST-JHARSUGUDA (2x210)=420 MW	2228453	2621.13	890053	Wet disposal & Dry Disposal (Small scale)	233	Nil	Nil	18907	Nil	19140	2.15
31.	INDIAN ALUMINIUM COMPANY LTD. (HIRAKUD) PO-HIRAKUD, DIST-SAMBALPUR 67.5 MW	404137		143893	Dry ash disposal	1008	75830 Cement Industries	-	-	-	76838	53.4
32.	*INDIAN CHARGE CHROME LTD. PO-CHODWAR, DIST-CUTTACK 108 MW	675809	842.677	314887	By Dumpers (Dry disposal)	110	Nil	289182 (Waste and Degrade d land)	Nil	-	289292	91.9
33.	NTPC , KANIHA PO-DEEPSIKHA, DIST-ANGUL 2x500=1000MW	4540000		1621173	Wet disposal	16085	24 Cement industry	63579	78199	14222 Ash products	172109	10.61
34.	ROURKELA STEEL PLANT (CPP-I) PO-ROURKELA, DIST: SUNDERGARH 3x25=75MW	502000		150000	Wet disposal	-	9200 Cement industry	15600	34300	-	59100	39.4
35.	NTPC, SAIL POWERCOMPANY RSP (CPP-II) PO-ROURKELA, DIST: SUNDERGARH 128 MW			245100	Wet disposal	-	-	-	150960	-	150960	61.6

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36.	CPP, BIRLA TYRES 25MW	142494	73.107	30794	Dry disposal	6480	-	24314	-	-	30794	100
37.	TALCHER THERMAL POWER STATION, (TTPS) DIST-ANGUL 4x60, 2x110 = 460MW	1925000		770116	Wet disposal	7825	98 Cement industry	-	166000	1889 Ash based products	175812	26.02
38.	BILT UNIT, SEWA,GAGANPUR, ORISSA	139726	64.73	49568	Dry disposal	4000	-	45568	-	-	49568	100
39.	M/S J. K. PAPERMILLS, JAKAYPUR. DIST: RAYAGADA, ORISSA,	174000	132.812	73000	Dry disposal	14000	-	59000	-	-	73000	100
40.	M/S ALUMINA REFINERY COMPLEX, NALCO, P.O.-DAMANJODI, DIST: KORAPUT 3x18.5 = 55.5 MW	904563		381183	Wet disposal	-	-	-	-	-	-	0
41.	M/S BALLARPUR INDUSTRIES LTD., PO- CHOUDWAR DIST: CUTTACK	Closed	Closed	Closed	Dry & Wet disposal	Closed	Closed	Closed	Closed	Closed	Closed	Closed
42.	M/S EMAMI PAPER MILL, P.O.-BALGOPALPUR DIST: BALASORE 5 MW	48184		16864	Dry & Wet disposal	3375	-	13489	-	-	16864	100

\* The boilers are grate stoker fired type and hence 90% of the ash generated is bottom ash and rest 10% is fly ash.

## STATUS OF FLYASH UTILISATION BY THERMAL POWER PLANTS OF ORISSA (2004-2005)

SI No	Name and address of the Plant	Coal Consumption (Million Ton)	Plant Capacity in MW	Qty. of Ash Generated (Million Ton)	Disposal Method	Brick Making (Ton)	Supplied to Industry/ Other Agency (Ton)	Land Filling (Ton)	Embankment/ Dyke Raising (Ton)	Other purposes (Ton)	Total Ash Utilised (Ton)	% of Utilisation
43.	NALCO (CPP) PO-NALCONAGAR, DIST- ANGUL	5.145	(8 x120)= 960 MW	2.14	Wet disposal Ash pond	1200	67459	-	47580	400 Agriculture	116639	5.45
44.	IB THERMAL POWER PLANT PO-BANAHARPALLI, DIST-JHARSUGUDA	2.64	(2x210)= 420 MW	0.876	Wet disposal Ash pond	617	67260	935	80102	Nil	148994	17
45.	INDIAN ALUMINIUM COMPANY LTD. (HIRAKUD) DIST-SAMBALPUR	0.481	67.5	0.189	Dry ash disposal	7562	2491 Cement Industries	123855	-	55299 Ash mound	133928	70.80
46.	*INDIAN CHARGE CHROME LTD. PO-CHOUDWAR, DIST-CUTTACK	0.675	108 MW	0.31	By Dumpers (Dry disposal)	Nil	Nil		Nil	310332 (Reclamation of Waste and Degraded land)	310332	100
47.	NTPC , KANIHA PO-DEEPSIKHA, DIST-ANGUL	11.8	5 x 500= 2500 MW	4.62	Wet disposal Ash pond	28735	19054	733059	207613	12991 Ash based products	1001452	21.67
48.	TALCHER THERMAL POWER STATION, (TTPS), NTPC DIST-ANGUL	2.53	4x60, 2x110= 460MW	0.977	Abandoned mine pit	5476	55863	-	78000	5275 Ash based products 59059 Mine back filling	391993	40.12
49.	ROURKELA STEEL PLANT CPP-I PO-ROURKELA, DIST: SUNDERGARH 3x25=75MW	0.55	3 x25 MW= 75MW	0.21	Wet disposal	-	8400	-	-	-	8400	4.0
50.	BILT UNIT, SEWA,GAGANPUR, ORISSA	139726	64.73	49568	Dry disposal	4000	-	45568	-	-	49568	100
51.	M/S J. K. PAPERMILLS, JAKAYPUR. DIST: RAYAGADA, ORISSA,	174000	132.812	73000	Dry disposal	14000	-	59000	-	-	73000	100
52.	M/S ALUMINA REFINERY COMPLEX, NALCO, P.O.-DAMANJODI, DIST: KORAPUT 3x18.5 = 55.5 MW	904563		381183	Wet disposal	-	-	-	-	-	-	0
53.	M/S BALLARPUR INDUSTRIES LTD., PO-CHOUDWAR DIST: CUTTACK	Closed	Closed	Closed	Dry & Wet disposal	Closed	Closed	Closed	Closed	Closed	Closed	Closed
54.	M/S EMAMI PAPER MILL, P.O.-BALGOPALPUR DIST: BALASORE 5 MW	48184		16864	Dry & Wet disposal	3375	-	13489	-	-	16864	100
55.	CPP, BIRLA TYRES 25MW	142494	73.107	30794	Dry disposal	6480	-	24314	-	-	30794	100

\* The boilers are grate stoker fired type and hence 90% of the ash generated is bottom ash and rest 10% is fly ash.