

**LIST OF HAMADA COAL FIRED BOILER USERS - 1 (INDONESIA)**

NO	COMPANY NAME	PRODUCT	SYSTEM	BOILER CAPACITY		Year
1	PT. AGUNG TEXTILE Solo	TEXTILE	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	1990
2	PT. CIPTA PAPERIA Ciujung, Jawa Barat	PAPER	<i>Fluidized Bed System</i> Model DF-16-16	16 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	2002
3	BADAN PENGKAJIAN & PENERAPAN TEKNOLOGI (BPPT) Serpong	Ministry of Energy	<i>Fluidized Bed System</i> Model LSG1500FBC	1.5 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	1991
4	PT. INDONESIA TORAY SYNTHETICS Tangerang (I.T.S.)	Synthetic Fiber	CHAIN GRATE (EXT.) Model SHL-35-25	35 Ton/h 25 Kg/cm <sup>2</sup>	2 units	2003
5	PT. EASTERN STAR Tangerang	PAPER	CHAIN GRATE (EXT.) Model D-10-16	6 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	1992
6	PT. GOLDEN SARI CHEMICAL Lampung	CHEMICAL	CHAIN GRATE (EXT.) Model D-10-16	10 Ton/Hr 16 Kg/cm <sup>2</sup>	2 units	1993
7	PT. PUTERA MULYA majalaya, Bandung	TEXTILE	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr 16 Kg/cm <sup>2</sup>	1 units	2002
8	PT. INDORAYA EVERLATEX Banjarmasin	GLOVE	<i>Fluidized Bed System</i> QXL 300 FBC	3,000,000 KCal/Hr	2 units	1995
9	PT. JAYA KERTAS Surabaya	PAPER	CHAIN GRATE (EXT.) Model D-10-16	10 Ton/Hr 16 Kg/cm <sup>2</sup>	4 units	1993
10	PT. KERTAS BASUKI RACHMAT Banyuwangi	PAPER	CHAIN GRATE (EXT.) Model D-20-25	20 Ton/Hr 25 Kg/cm <sup>2</sup>	3 units	1994
11	PT. LOJIKANATAMA TEXTILE Pekalongan	TEXTILE	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr 16 Kg/cm <sup>2</sup>	2 units	1990
12	PT. MASAYU MITRA SANDANG Bandung	TEXTILE	<i>Fluidized Bed System</i> Model LSG2000FBC	2 Ton/Hr 10 Kg/cm <sup>2</sup>	1 unit	1990
13	PT. TIFICO (TEIJIN Indonesia Fiber Corp) Tangerang	Synthetic Fiber	<i>Fluidized Bed System</i> Model DF-25-25	22 ton/hr 25 Kg/cm <sup>2</sup>	2 units	2002
14	PT. PABRIK KERTAS TJIWI KIMIA Mojokerto	PAPER	FIXED GRATE Model D-10-16	10 Tom/h 16 Kg/cm <sup>2</sup>	1 unit	1993
15	PT. PADANG SARI KELAPA INDO Padang	FOOD coconut	CHAIN GRATE (EXT.) Model D-10-16	6 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	1990
16	PT. POLA PULPINDO PAPERMILL Lampung	PAPER	CHAIN GRATE (EXT.) Model D-10-16	10 Ton/Hr 16 Kg/cm <sup>2</sup>	2 units	1994
17	PT. POLLUX INDONESIA TEXTILE IND. Bekasi	TEXTILE	CHAIN GRATE (EXT.) Model D-10-16	10 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	1994
18	PT. PURA BARUTAMA Kudus	PAPER	CHAIN GRATE (EXT.) Model D-10-16	10 Ton/Hr 16 Kg/cm <sup>2</sup>	2 units	2000
19	PT. PURA NUSAPERSADA Pati, Kudus	PAPER	CHAIN GRATE (EXT.) Model D-10-16	10 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	1995
20	PT. RODA VIVATEX Cibinong	TEXTILE	CHAIN GRATE (EXT.) Model D-10-16	10 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	1995
21	PT. SENAYAN SANDANG MAKMUR TEXT Bandung	TEXTILE	CHAIN GRATE (EXT.) Model D-10-16	10 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	1994
22	PT. SINAR PLATACO (Semarang) Semarang	CHEMICAL	<i>Fluidized Bed System</i> Model QXL480FBC	480,000 Kcal Hot water	1 unit	2003
23	PT. ALENATEX Bandung	TEXTILE	<i>Fluidized Bed System</i> Model DF-12-16	16 ton/hr 16 Kg/cm <sup>2</sup>	1 unit	2002
24	PT. SUPARMA PAPERMILL Surabaya	PAPER	CHAIN GRATE EXT. Model D-10-16	10 Ton/Hr 16 Kg/cm <sup>2</sup>	4 units	1992
25	PT. INTAN PRIMA Lampung	CHEMICAL	<i>Fluidized Bed System</i> conversion FBC	20 Ton/Hr 25 Kg/cm <sup>2</sup>	1 unit	1996
26	PT. WING SURYA Surabaya	DETERGEN	CHAIN GRATE EXT. Model D-10-16	10 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	1995
27	PT. PURA NUSAPERSADA Pati-Kudus	PAPER	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	2001
28	NEDO PROJECT OF JAPANESE GOVERNMENT - PT. Alas Wiratama	Briket (government)	<i>Fluidized Bed System</i> Model QXL1000FBC	1,000,000 KCal/Hr	1 unit	2000
29	PT. KESMATEX INDONESIA Pekalongan	TEXTILE	<i>Fluidized Bed System</i> Model DF-16-16	16 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	2003
30	PT. ASWINDO JAYA SENTOSA BANDUNG	TEXTILE	COALMAC internal chain Model CMC-10-13	12 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	2003
31	PT. DELIMATEX BANDUNG BANDUNG	TEXTILE	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr 16 Kg/cm <sup>2</sup>	1 unit	2003

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NO	COMPANY NAME	PRODUCT	SYSTEM	BOILER CAPACITY		Year
32	PT. BETEEN TEXTILE NUSANTARA BANDUNG	TEXTILE	<i>COALMAC internal chain</i> Model CMC-10-13	10 Ton/Hr	1 unit	2003
				13 Kg/cm2		
33	PT. INDO ACIDATAMA Solo-Sragen	CHEMICAL	<i>COALMAC internal chain</i> Model CMC-10-13	10 Ton/Hr	2 units	2003
				13 Kg/cm2		
34	PT. AGUNG KUNCORO Solo-Sragen	TEXTILE	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr	1 unit	2003
				10 Kg/cm2		
35	PT. ENGGAL MUMBUL KERTAS Kudus-Pati, Jawa Tengah	PAPER	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr	1 unit	2003
				16 Kg/cm2		
36	PT. PURA BARUTAMA 3&4 Kudus, Jawa Tengah	PAPER	<i>COALMAC internal chain</i> Model CMC-10-13	5 Ton/Hr	2 units	2003
				10 Kg/cm2		
37	PT. KANEBO TEXTILE INDONESIA Cikampek	TEXTILE	<i>Fluidized Bed System</i> Model DF-16-16	16 Ton/Hr	2 units	2003
				16 Kg/cm2		
38	PT. FRANS PUTRATEX Serang	TEXTILE	<i>Fluidized Bed System</i> Model DF-16-16	16 Ton/Hr	1 unit	2003
				16 Kg/cm2		
39	CV. EVANAS JAYA Bandung	TEXTILE	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr	1 unit	2003
				16 Kg/cm2		
40	PT. GRAND TEXTILE INDUSTRY (Grandte) Bandung	TEXTILE	<i>Fluidized Bed System</i> Model DF-16-16	16 Ton/Hr	1 unit	2003
				16 Kg/cm2		
41	PT. SABATEX Bandung	TEXTILE	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr	1 unit	2003
				16 Kg/cm2		
42	PT. PACIFIC HARVEST Pandaan, Jawa Timur	Noodle	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr	1 unit	2004
				16 Kg/cm2		
43	PT. SRI REJEKI ISMAN (SRITEX) SOLO	TEXTILE	<i>Fluidized Bed System</i> Model DF-16-16	16 Ton/Hr	2 units	2004
				16 Kg/cm2		
44	PT. CAHAYA KALBAR PONTIANAK	Cooking Oil	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr	1 unit	2004
				16 Kg/cm2		
45	PT. SINAR PLATACO (BEKASI) BEKASI	Moskito Coil	CHAIN GRATE (EXT) Model QXL240CG	240 Kcal/H	1 unit	2004
				Thermal-oil		
46	PT. BADJATEX Bandung	TEXTILE	<i>Fluidized Bed System</i> Model DF-16-16	16 Ton/Hr	1 unit	2004
				16 Kg/cm2		
47	PT. TIGA PUTRA KEDIRI	PAPER	<i>COALMAC internal chain</i> Model CMC-5-13	5 Ton/Hr	1 unit	2004
				13 Kg/cm2		
48	PT. SETIA KAWAN Tulungagung	PAPER	<i>Fluidized Bed System</i> Model DF-16-16	16 Ton/Hr	1 unit	2004
				16 Kg/cm2		
49	PT. PURNAMA TEXTILE Bandung	TEXTILE	<i>Fluidized Bed System</i> Model DF-12-16	6 M KCAL/h	1 unit	2004
				Thermal-oil		
50	PT. ORIENTAL TEXTILE Bandung	TEXTILE	<i>Fluidized Bed System</i> Model DF-12-16	16 Ton/Hr	1 unit	2004
				10 Kg/cm2		
51	PT. KEMASAN SEMPURNA Pasuruan	Cartonbox	<i>COALMAC internal chain</i> Model CMC-5-13	5 Ton/Hr	1 unit	2004
				10 Kg/cm2		
52	PT. MAXFOS PRIMA Tangerang	Cartonbox	<i>COALMAC internal chain</i> Model CMC-10-13	10 Ton/Hr	1 unit	2004
				10 Kg/cm2		
53	PT. GUDANG GARAM Kediri	Cigarette	<i>Fluidized Bed System</i> Model DF-16-16	16 Ton/Hr	2 units	2004
				10 Kg/cm2		
54	PT. LAUTAN OTSUKA CHEMICAL Merak	Chemical	<i>Fluidized Bed System</i> Model DF-16-16	16 Ton/Hr	2 units	2004
				16 Kg/cm2		
55	PT. TOSHIBA POWER PLANT EGNR Jakarta	power plant	<i>Heat Pipe Recovery Boiler</i> Model CRG1500	1.5 Ton/Hr	2 units	2005
				10 Kg/cm2		
56	PT. INDONESIA TORAY SYNTHETICS I Tangerang	power plant	<i>CFBC Fluidized Bed</i> Model UG-75-60-450 CFBC	75 Ton/Hr	1 unit	2005
				60 Kg/cm2		
57	PT. NIKAWATEX Bekasi	power plant	<i>CFBC Fluidized Bed</i> Model UG-35-60-450 CFBC	38 Ton/Hr	1 unit	2005
				60 Kg/cm2		
58	PT. BONANZA MEGAH LTD Semarang	Cooking Oil	<i>Fluidized Bed System</i> Model DF-12-16	12 Ton/Hr	1 unit	2005
				16 Kg/cm2		
59	PT. KEMASAN SEMPURNA Pasuruan	Fish Canning	Pulverized Burner Boiler Model PCB-3	2,5 Ton/Hr	3 unit	2005
				13 Kg/cm2		
60	PT. PACIFIC HARVEST Pandaan, Jawa Timur	Noodle	Pulverized Burner Boiler Model PCB5	5 Ton/Hr	1 unit	2005
				10 Kg/cm2		
61	PT. RAPI SARANA TEXPRO Pandaan, Jawa Timur	Processing	Pulverized Burner Boiler Model PCB-5	5 Ton/Hr	1 unit	2005
				10 Kg/cm2		
62	PT. INDONESIA TORAY SYNTHETICS 2 TANGERANG, Jawa Barat	Fiber	<i>CFBC Fluidized Bed</i> CO-GENERATION POWER PLANT	75 Ton/Hr	1 unit	2005
				60 Kg/cm2		

### LIST OF HAMADA COAL FIRED BOILER USERS-3 (INDONESIA)

NO	COMPANY NAME	PRODUCT	SYSTEM	BOILER CAPACITY		Year
63	<b>PT. EASTERTEX</b> PANDAAN, Jawa Timur	Textile	<b>Fluidized Bed (CFBC)</b> Model UG-75-60-450 CFBC	75 Ton/Hr 60 Kg/cm <sup>2</sup>	1 unit	2006
64	<b>PT. PUTRA PILE INDONESIA</b> TANGERANG	Textile	Pulverized Burner Boiler Model PCB-5	5 Ton/Hr 10 Kg/cm <sup>2</sup>	1 unit	2006
65	<b>PT. MAS GANDA</b> TANGERANG	Textile	<b>COALMAC internal chain</b> Model CMC-5-13	5 Ton/Hr 10 Kg/cm <sup>2</sup>	1 unit	2006
66	<b>PT. SAMUDRA</b> PANDAAN, Jawa Timur	Textile	<b>Fluidized Bed System</b> Model DF-8-13	8 Ton/Hr 10 Kg/cm <sup>2</sup>	1 unit	2006
67	<b>PT. DELIMATEX</b> BANDUNG	Textile	<b>Fluidized Bed System</b> Model QXL-400FBC	400K Kcal/h oil heater	1 unit	2006
68	<b>PT. ASIAPLAST</b> TANGERANG	Plastic	<b>Fluidized Bed System</b> Model QXL-400FBC	400K Kcal/h oil heater	1 unit	2006
69	<b>PT. Mayora food company</b> BOGOR	FOOD	<b>Fluidized Bed System</b> Model DF-12-13	12 TON/H 10 Kg/cm <sup>2</sup>	1 unit	2007
70	<b>PT. HUNG A INDONESIA</b> LIPO CIKARANG	TIRE	<b>Fluidized Bed System</b> Model DF-16-25	16 TON/H 25 Kg/cm <sup>2</sup>	1 unit	2007
71	<b>PT. HUNG A INDONESIA</b> LIPO CIKARANG	TIRE	<b>COALMAC internal chain</b> Model CMC-5-16	5 TON/H 16 Kg/cm <sup>2</sup>	1 unit	2007
72	<b>PT. WIDJAYA PANCA FOOD</b> SURABAYA	NOODLE	<b>Fluidized Bed System</b> Model DF-10-13	10 TON/H 10 Kg/cm <sup>2</sup>	1 unit	2007
73	<b>PT. SALIM IVO MAS (BIMOLI)</b> SULAWESI	NOODLE	<b>Fluidized Bed System</b> Model DF-12-13	12 TON/H 16 Kg/cm <sup>2</sup>	2 unit	2007
74	<b>PT. MIE JANKAR</b> JAWA TENGAH	NOODLE	Pulverized Burner Boiler Conversion	10 TON/H 10 Kg/cm <sup>2</sup>	1 unit	2007
75	<b>PT. GANDA SUKSES</b> JAWA TENGAH	NOODLE	Pulverized Burner Boiler Model PCB-3	3 TON/H 10 kg/cm <sup>2</sup>	1 unit	2007
76	<b>PT. MEGA MARINE TUNA CANNING</b> PASURUAN	TUNA CANNING	Pulverized Burner Boiler Model PCB-CMC-5	5 TON/H 10 Kg/cm <sup>2</sup>	1 unit	2007
77	<b>PT. INTER FORMINDO</b> JAWA BARAT	STYRO FOAM	Pulverized Burner Boiler Model PCB-3	3 TON/H Kg/cm <sup>2</sup>	1 unit	2007
78	<b>PT. SALIM IVOMAS (BIMOLI)</b> MOUTONG	COOKING OIL	<b>Fluidized Bed System</b> Model DF-4-13	4 TON/H 10 Kg/cm <sup>2</sup>	1 unit	2008
79	<b>PT. SALIM IVOMAS (BIMOLI)</b> TOBELO	COOKING OIL	<b>Fluidized Bed System</b> Model DF-4-13	4 TON/H 10 Kg/cm <sup>2</sup>	1 unit	2008
80	<b>PT. SADHANA ARIFNUSA</b> PASURUAN, JAWA TIMUR	CIGARET	<b>Fluidized Bed System</b> Model DF6-13	6 TON/H 13 Kg/cm <sup>2</sup>	2 unit	2008

as of February 2008

Total **106** units