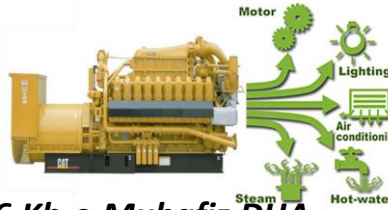




COGEN™ SYSTEMS RADIATORS (VS.UK)

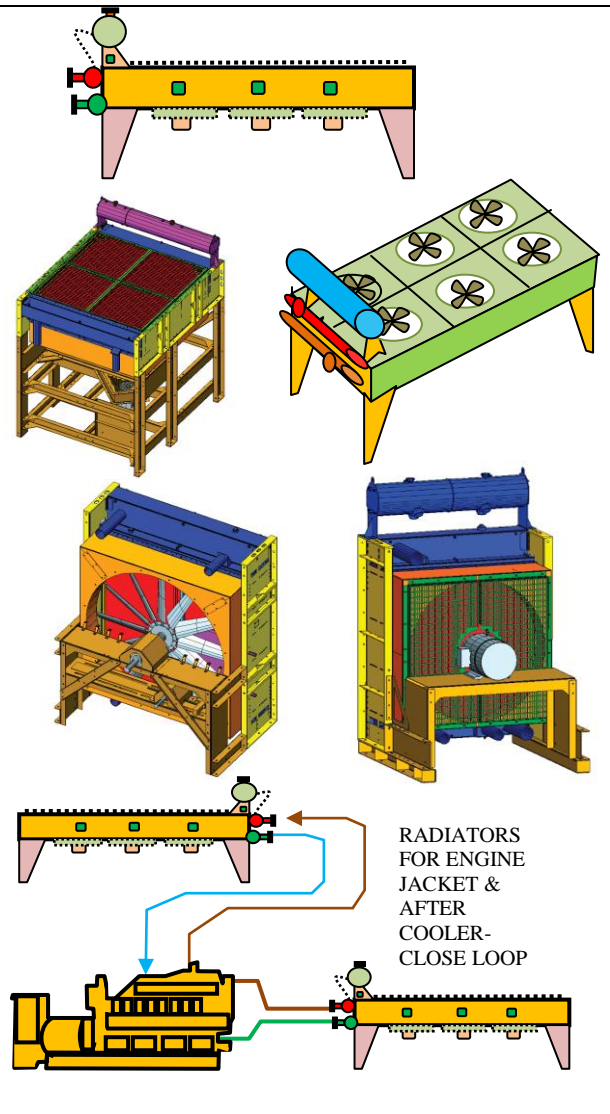
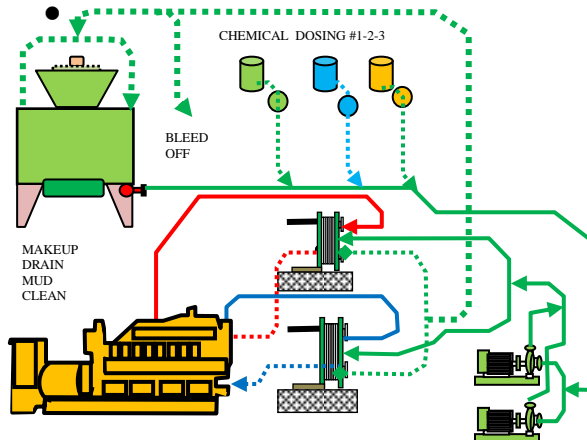


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**WATER SHORTAGE? NO PROBLEM - CONSERVE WATER
USE, AIR COOLED RADIATORS FOR ENGINE JACKET & AFTER
COOLING CIRCUITS, REPLACE COOLING TOWERS WITH RADIATOR.
SAVE 100,000 RS/MONTH AGAINST WATER SAVING- WATER TANKERS UN-LOADING,
CHEMICAL DOSING, BLEED OFF, MUD CLEANING, CORRODED PIPE REPAINTING YEARLY
DAMAGED, PLATE HEAT EXCHANGERS, COST CUTTING THRU MODERN TECHNOLOGY
FROM "VAN SPALL CHP LTD. ENGLAND –UK"**

Engines Jacket & After Cooler Heat Sink /Rejection thru Air cooled Radiators Save 100,000 Rs/Month Get rid of following troubles.

- No more Water Shortage
- NO CW Pumps, Plate Exchanger, Cooling Tower, MCC
- No More Mud Cleaning
- NO More Chemical Dosing
- No More Fan & Pumps Power
- No More Plate Heat Exchangers
- No more Water Tankers
- No More Repainting /Corrosion
- Save Rs.1 Million/Yr



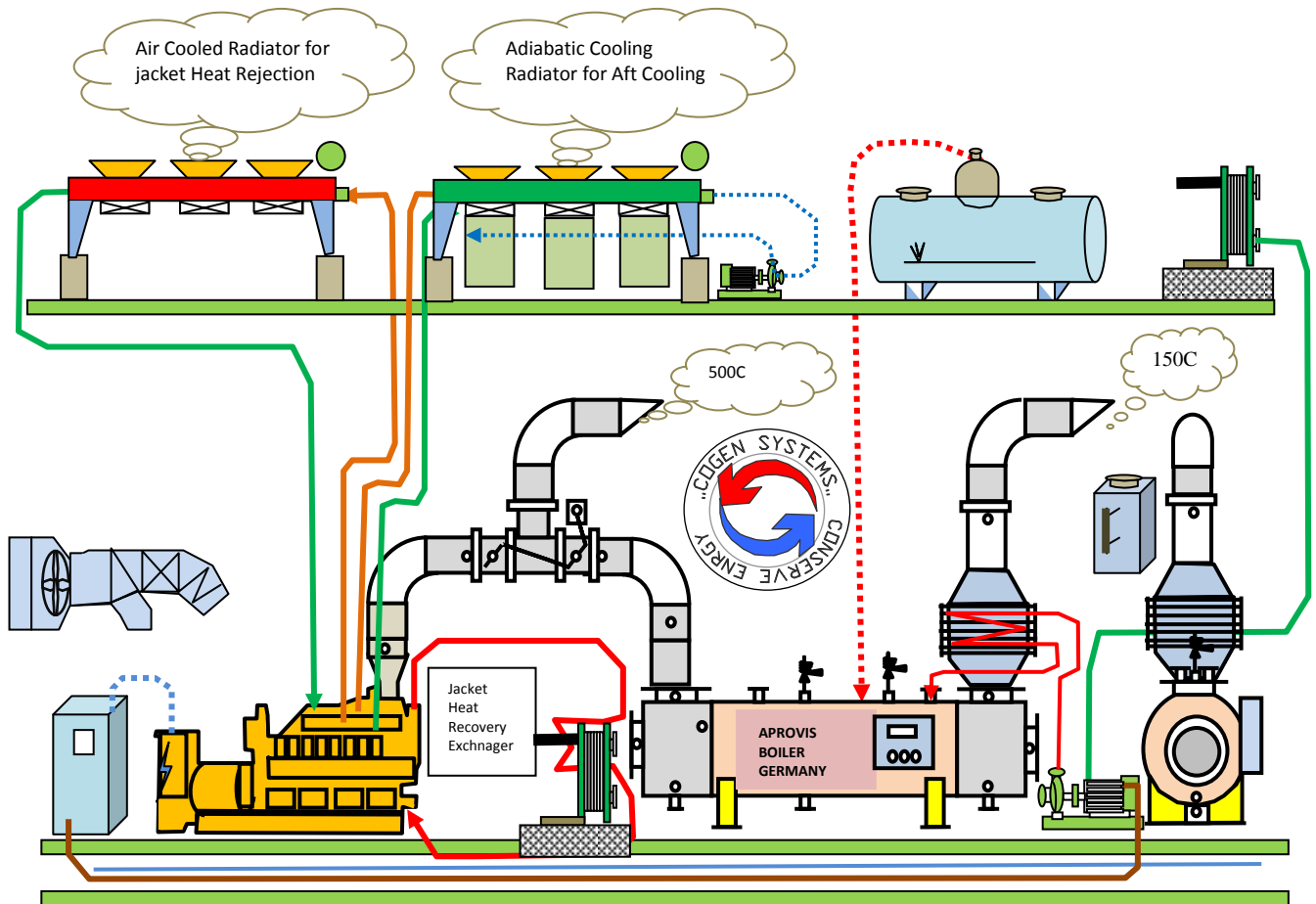


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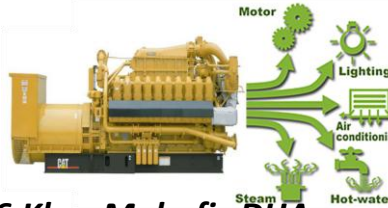
COGEN SYSTEMS- recover 45% LOST ENERGY, REDUCE UNIT RATE FROM 5 Rs TO 3 Rs/KWeH – REDUCE FUEL COST- INCREASE THERMAL EFFICIENCY UP TO 80 %



**Conserve Water & Chemicals
Use Air Cooled Radiators Saves
74,720 Rs/Month.**



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GEA RADIATOR FOR JENBACH AUXILAIRIES

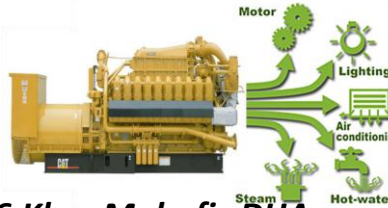
Cost Saving comparison Radiator Vs Cooling Tower System

RADIATORS	Units	COOL TOWERS	Units
Electric Power (1.8 KWe x4 FANS =7.20 KWe for JW	7.20 KWe	Total Electric Power Fan + Pump + Chem. Dos	15 KWe /Hr
Chemicals Dosing	Not required	Chemical Dosing (Averaged 2 Liter/day@250 Rs/Lit)	Rs. 15,000 per Month
Bleed Off	Not required	Bleed Off @0.5% 500 US ,15 paisa/Lit Water cost (720*0.15*60=3,240	3,240 Rs/Month
Water makeup	Not required	Evaporation +Water makeup 1.0 % 500 US GPM (720*60*0.15)	32,400/- Rs. Month
Radiator Fins Protection SS316 Mosquito mesh brush cleaning Lamoure Cost 2 x Person x 500 Rs. x 4 Times	4,000	Mud Cleaning ,Man Hours 2 Labor x 4 Times x 500 Rs.	Rs. 4,000
Plate Exchanger	Not required	Plate Exchanger Cleaning Per month Labor charges	4000
Radiator Fins cleaning using 10% kerosene warm 80C water per month	4,000	CW Pumps Power @10 KWe x Rs. 5 /ekwh x720 hrs /month	36,000
Radiator Fans Motor Electric Power @ 7.2 x5 Rs x 720 =	25,920	Cooling Wtr Fan Motor @ 5 KWe x 5 Rs x720Hr	18,000
Cooling Tower MCC panel	Not required	Cooling Tower MCC panel	NIL
Makeup Drain Piping	Not required	Makeup Drain Piping	NIL
Overall Operation Cost Rs./Month	33,920	Monthly operation Cost Rs/Month	1,08,640

Save Rs. (1, 08,640 -33,920 =74,720 Rs/ Month using Radiators.



COGEN™ SYSTEMS RADIATORS (VS.UK)



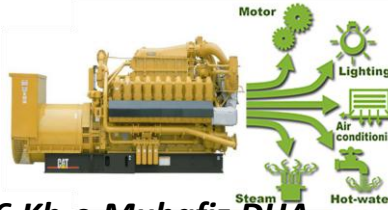
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REPLACE COOLING TOWERS – USE AIR COOLED RADIATORS

RADIATOR = Close Circuit Air Cooled Radiators for Jacket	Equipment Cost in Rs.	COOLING TOWER = Open Circuit Cooling	Equipment Cost in Rs.
Cost of JW Radiator 600 Kith @ 95/85C CATERPILLAR	13,00,000	Cooling Tower 250 RT/ 500 US GPM ,35/43C	5,50,000
CW PUMP #1&2	NOT REQUIRED	Cool Water Pumps 2 No x 500 US GPM x 10KWe	5,00,000
Plate Exchanger	NOT REQUIRED	Plate heat exchanger for JW & Aft Cool	3,00,000
Electrical Panel switching for fans Only	50,000	Electric Panel (MCC) Cooling Tower Fan+ Pumps+ Chemicals Dos.	1,50,000
Piping valve fittings for CW Systems from CWP's Exchanger to Cool Tower and return	1,00,000	Piping valve fittings for CW Systems from CWP's Exchanger to Cool Tower and return	15,00,000
Total Capital Investment Rs.	14,50,000	Total capital Investment Rs.	15,00,000
US Dollars	16,000 US \$	US Dollars	17,647
UK Pound Sterling	10,740 UK £		11,111
Yearly Saving in Operation Cost Wtr Cooling Tower Open Circuit Invest payback 16,000/10,548 US \$=1.6 yrs. The free of Cost Operation.	74,720 /Month 12=896640 Rs/Yr (10,548 US\$0 Payback= 1 yrs.	No saving from Cooling Tower Same Investment n continuous Cost of Operation Rs. 100,000 /Month? Payback=NEVER	1,08,640 Rs PM Expanses/month



COGEN™ SYSTEMS RADIATORS (VS.UK)



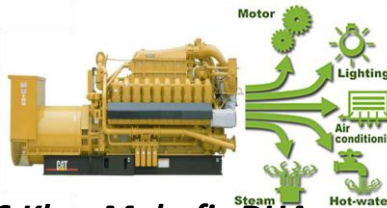
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TECHNICAL SPECIFICATIONS OF JACKET & AFTER COOLING RADIATORS (CATERPILLAR & JENBACH 1MWe)

#	Descriptions	Units	CATERPILLAR –JW G3516B JW RADIATOR	JENBACHER JW RADIATOR	CAT G3516B AFT COOL RADIATOR	JENBACHER AFT COOL RADIATOR
1	Model	model	ABC-042 389C3/BT	ABC-042 389C3/B T	ABC03128 9 C4/AWS	ABC03128 9 C4/AWS
2	Radiators Quantity	NO	1	1	1	1
	ROMTE MOUNTED TABLE TYPE	TYPE	TABLE	TABLE	TABLE	TABLE
3	CIF KARACHI PORT BIN QASIM WITH WEATHER PROOF PACKING,SHIPMENT, PRICE UK Lbs (@140 Rs/ UK £)	UK £	10,000	11,750	8,750	8,750
6	Delivery Period	Weeks	8-9	8-9	8-9	8-9
7	Payment Terms 100% Clear L/C to Van Spall thru International Bank	L/C 100% UK £	L/C 100% UK £	L/C 100% UK £	L/C 100% UK £	L/C 100% UK £
8	Price validity	Days	30	30	30	30
9	Equipment Performance Warranty from the date of Delivery. Based on repair & Repair of parts.	Months	18 MONTH /12 MONTH	18 AFT SHIP/12 MONTH	18 M AFT SHIP/12M AFT START	18 M AFT SHIP/12 M AFT START
10	Ambient Dry Bulb Temperature	Deg-C	50	50	50	50
11	Ambinet Wet Bulb Temp	Deg-C	29	29	29	29
12	Heat Rejection Capacity	KWth	592	600	120	120
13	Water Flow	M3/Hr	63	25.7	26.28	26.28
14	Radiator Inlet Temp from Engine	Deg-C	99	90	47	47
15	Radiator outlet to Engine Temp	Deg-C	90.5	69.2	43	43
16	Radiator outlet Air temp	Deg-C	67	67	50	50
17	Ambinet Air temp at Sea level	Deg-C	45	45	45	45
18	Water Pressure Drop across radiator Tubes	PSIg	8.35	6.1 PSI	8.2	8.2
19	Fresh Air Flow Cubic	CFM	40,242	61,442	32,617	32,617



**COGEN™ SYSTEMS
RADIATORS (VS.UK)**

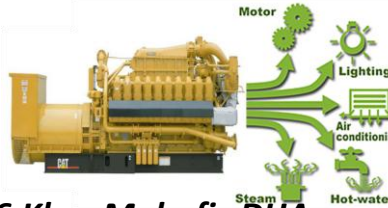


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	Feet/Minutes					
20	No of Fans	NO	4	6	3	3
21	Total Electric Power of Fans Radiator 400V	KWe	7.4	10.8	5.4	5.4
22	Radiator Dimensions LxWxH (Ft)	Ft	8 ½ ' x 7 ½ x 3 ½ '	12 ½ x7 ½' x3 ½'	12'x4'x41/2'	12'x4'x4 ½'
23	Weight Wet/Water filled	Kg	831	1120	911	911
24	Total Contained Volume Radiator	Liter	112	142	66	66
25	Noise Level of radiator @10M	Noise	50 dB(A)	52 dB(A)	49 dB(A)	49 dB(A)
26	Noise Level of radiator @10M	Noise	50 dB(A)	52 dB(A)	49 dB(A)	49 dB(A)
27	Polyester Weather Proof Paint (PWPP)	Paint	PWPP	PWPP	PWPP	PWPP
28	Vinyl Coated Aluminum Fins (VCAF).	Fins	VCAF	VCAF	VCAF	VCAF
29	Drawing-Certified Copy	Drawing	3 Set	3 Set Drwg	3 set Drwg	3 Set Drwg
30	Manual for O & M + Installation Guide	Set	1Manual	1Manual	1Manual	1Manual
31	Water Flow	US GPM	276	112.7	115	115
32	Anti Rust Concentration (Glycol %)	Glycol%	10%	10%	10%	10%
33	Radiator inlet Ambient Air Temperature	Degree-C	50	50	50	50
34	Water Pressure Drop Across Radiator tubes	KPAa	57.6	42.6	56.7	56.7
35	External Ambinet Static pressure	Mbar	Zero	Zero	Zero	Zero
36	Fresh Air Flow in M3/Hr	M3/Hr	68,400	104,400	55,440	55,440
37	Diameter of fans	Ft	2 ½ Ft	2 ½ Ft	2 ½ FT DIA	2 ½ FT DIA
39	Fan Motor Power	KWe	1.8 x 4NO	1.8 x 6NO	1.8 X 3 NO	1.8 X 3 NO
35 40	Fan Speed	rpm	890	890	890 VFD	890 VFD
41	Total Electric Power of Fans Motor 400V	Amp	14	20	9.7	3.5
42	Fan Motor Direct on Load Current	Amp	14	14	14	----
43	Power Soft Start /Motor	Amp	-----	-----	5.25 A	5.25 A
44	Material -Water Tube	Tube	Copper	Copper	Copper	Copper
45	Material- Fins	Fins	Aluminum Vinyl Coated	Aluminum Vinyl Coated	Aluminum Vinyl Coated	Aluminum Vinyl Coated
46	Radiator Dimensions LxWxH	mm	2605x2300x1100	3805x2300x1100	3605x1200x410	3605x1200x1410
47	Exchanger surface Area	M Sqr	-----	-----	-----	-----
48	Weight Dry Kg	Kg	719	978	845	845
49	Weight Wet/Water filled	Kg	831	1120	911	911
50	Total Contained Volume Radiator	Liter	112	142	66	66



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51	Noise Level of radiator @10M	Noise	50 dB(A)	52 dB(A)	49 dB(A)	49 dB(A)
52	Standard Color	Color	RAL 7035	RAL 7035	RAL 7035	RAL 7035
53	Adiabatic Water Spray Systems	Set	-----	-----	Included	Included
54	Door Interlock Isolator	Set	-----	-----	Included	Included
55	Adiabatic Water Spray (AWS) control Panel	Set	-----	-----	Included	Included
56	Test Pressure	Bar(g)	30	30	30	30
57	Working Pressure	Bar(g)	10	10	10	10
58	Noise Level of radiator @10M	Noise	50 dB(A)	52 dB(A)	49 dB(A)	49 dB(A)
59	Radiator Nozzle Standards Flanges	Flanges	BS4504 – PN16			

OPTIONAL ATTACHEMENT (EXTRA ON EXTRA COST)

#	Descriptions	Units	JW-RDTR CAT G3516B 1000 KWE	JW –RDTR JENBACH JGS320 1000KWE	AC RDTR CAT G3526B 1000 KWE	AC RDTR JENBCH 320 1000 KWE
1	GALVONIZED MESH DISCH SCREEN	UK Lbs	114	225	-----	-----
2	EXANSION TANK +RADIATOR PRESS CAP+PRV (100 liter)	UK Lbs	746	746	-----	-----
3	FAN ISOLATION LOCAL SWITCH FITTED	UK Lbs	36 x 4	36 X 6		
4	VFD – FOR FAN MOTORS POWER TRONIC VFD UK	UK Lbs.	-----	-----	-----	3,246
5	AWS- ULTRA VIOLET DISINFECTION	UK Lbs	-----	-----	375	375
6	IONIC SCALE PREVENTION	UK Lbs	-----	-----	270	270
7	STEP MOTORS CONTROL PANEL	UK Lbs	?	?	?	?

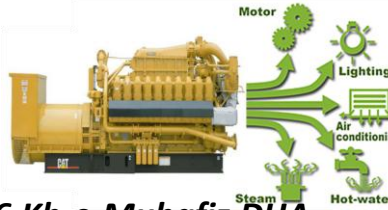
COMMERCIAL TERMS & CONDITIONS

- 1- Price quoted are inclusive of following
- 2- The estimated Delivery Time 8-9 Weeks is from the Date of receipt of 100% Clear technical & Commercially Clear Letter of Credit(L/C) in favor of Vans pall UK thru International banks.
- 3- The prices quoted are open to acceptance for a period of 30 work days from the date of quotation/proposal, unless otherwise agreed.
- 4- All goods are supplied in accordance with Van Spall Associates (CHP) Ltd. Until paid in full.
- 5- Delivery time shown is estimated in working weeks, from the Receipt of a 100% Clear L/C.

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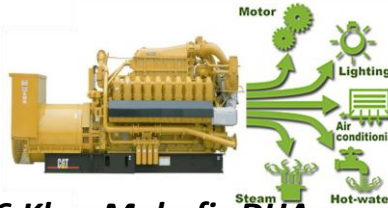
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COGEN PROJECTS POPULATION 1980 - 2011

COGEN ROJECTS	NO	455	PROJECT	2011 UP	
PROECTS IN HAND	Qty	Model/Make	Jacket waste	Ceramics Tiles	Year
ARTISITC SPIN KHI	4	CAT G3516B	HW	250 RT HW CHILLER	
MARFANI DENIM MILLS	1	CAT G 3516B	HW	DENIM	2011
NACISEY FOOD KHI	2	CAT G3306	HW	PROCESS	2011
INDIGO DENIM -2 KHI	1	JENB- 1000 KWE	Hot Water	AC CHILLER	2011
INDUS DYEING KHI	8	JENB+CAT G3516B	Hot Water	AC CHILLER	2011
DENIM INTERNL KHI	11	CAT G 3520 –C	Hot Water	AC CHILLER	2011
PARSONS INDUSTRIES	2	CAT G 3512 X 2	Hot Water	AC CHILLER	2010
SAYA WEAVING-2 KHI	1	JENB 1000 KWE	Hot Water	AC CHILLER	2010
DOW UNIVERSITY KHI	3	CAT G3516B	Hot Water	AC CHILLER	2010
MUSTAQUIM DYEING	1	JENB 1000 KWE	Hot Water	AC CHILLER	2010
KRYSTOPAK LANDHI	6	JENB 1000 KWE	Hot Water	AC CHILLER	2010
NOVATEX LANDHI	6	JENB 1000 KWE	Hot Water	AC CHILLER	2010
INDUS DYEING HYDRBD	1	STEAM TURBINE	Hot Water	AC CHILLER	2010
ENGRO FOOD SUKKUR	3	CAT G 3516A+JENB	Hot Oil+HW	AC CHILLER	2009
ENGRO FOOD SUKKUR	3	Cat G 3516 C	Hot Oil+HW	Chiller 300 RT	2009



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PARSONS INDUSTRIES	3	Cat G 3516 C	Hot Oil+HW	Chiller 150 RT	2009
RICE MILS PIONEER	3	JENB 420	HW	RICE MILL	2009
SAYA WEAVING MILLS	3	Cat G 3516 C	Hot Oil+HW	Chiller 200 RT	2009
UNITED TOWEL XPORT	3	Cat G 3516 C	Hot Oil+HW	Process HW	2009
ADNAN TEXTILE KHI	3	Cat G 3516 C	Hot Oil+HW	Chiller 450 RT	2009
UNITED MNG. KHI	3	Cat G 3516 C	THERMIC OIL	CHILLER	2008
KARAM CERAMICS KHI	3	Cat G 3516 C	Hot Oil+HW	CHILLER	2008
SHABBIR TILE-2 KHI	5	Cat G 3516 C	HOT OIL	CHILLER	2008
SHABBIR TILES-1 KHI	3	Cat G 3516 C	Hot Oil+HW	AC CHILLER	2008
CLARIANT JAMSHORO	2	Jenbacher	Hot Water	AC CHILLER	2008
HEJ –KHI- UNIVERSITY	4	Cat G 3412	Steam	AC CHILLER	2007
THE FORUM BLDG KHI	4	Cat 3512	AC	AC CHILLER	2007
SIDDIQSONS DNM HUB	2	Cat G3516B	Jackt Hw	AC CHILLER	2007
BAKE PARLOUR KHI	2	Cat G3508	Drying Flour	Flour material	2007
RASUL FLOUR MILLS	2	Cat G3508A	Drying Bread	Flour material	2007
SIDDISOSN DNM KHI	5	Cat G3516C	Drying tex	Chiller 400RT	2007
ENGRO FOOD SAHIWAL	3	Cat G3516C	Drying tex	Fabric Drying	2007
INDUS DYNG KHI	5	Jenbacher	Drying tex	Fabric Drying	2007
ENGRO FOOD SUKKUR	3	Cat G3516c	Porocess	Process	2007
ALI ASGHAR TEX KHI	2	Cat G3520B	Process	Process	2007
MACTER PHARMA KHI	1	Cat G 3512	Chiller	Chiller 300T	2007
MEW NDC ISLAMBD	4	Cat G3508	underground	Chiller 500	2007
ARTISITC FABRICS KHI	3	G3516C+B	ExhustUse	Jacket Use	2007
ARTISITC GARMENTS	3	G3516B+12A	Process	jacket	2007
YARN MERCHANT KHI	2	Cat G3516C	Chiller	Chiller 200T	2007
MORGAN TECH KHI	3	DEUTZ 900	Chiller	Chiller 300T	2007
RASOOL FLOOR MILLS	2	G 3508	Hw	Process	2007
KBI TEXTILE SITE KHI	1	GUASCORE	Drying tex	Fabric Drying	2006
RENFRO CRESCENT	1	JENBACH320	Porocess	Process	2006



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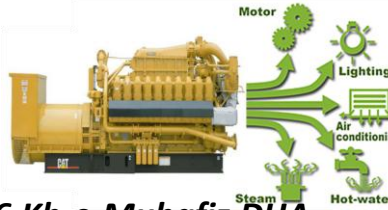
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LUCKY TEXTILE KHI	1	Cat G3520C	Process	Process	2006
PARKLANE TWR LHR.	3	CAT DIESEL	underground	Chiller 250	2005
AMIN TEX KOTRI	3	WAUKESH	Chiller	Chiller 300T	2005
PAK DENIM KHI	2	JENBACH	Process	Chiller 400T	2005
INDIGO DENIM KHI	3	JGS320	Process	Chiller 500T	2005
SOORTY DENIM KHI	2	CAT-G3516B	Process	Chiller 450T	2005
FATANI DENIM KHI	2	MAN GAS	Process	Chiller 200T	2005
GULSHAN WEAVING LHR	4	WAUKESHA	Process	Chiller 450T	2005
GULSHAN TEX LHR	4	WAUKESHA	Process	Chiller 450T	2005
ISMAIL INDUST-HUB	1	ABD D/F	Chiller	Chiller 200T	2005
CANDYLAND HUB	3	GUASCORE	Chiller	Chiller 200T	2005
BAKE PARLOUR-2 KHI	2	CAT G3508	HOT WTR	FOOD PROCE	2005
ART MILLINER DNM KHI	8	Cat-G3516	Process	Chiller 200T	2005
AMIN INDUST KHI	2	Cat-G3516	Chiller	Chiller 240T	2004
SAYA WEAVING KHI	2	JRNbacher	Process	Chiller 200T	2005
CLASIC DNM KHI	3	Cat-G3516C	Chiller	Chiller 200T	2005
PARSONS INDST KHI	2	Cat-G3512A	Chiller	Chiller 165T	2005
LAKSON TOBACCO	1	LG CHILLER	Chiller	Chiller 450T	2005
KBI TEXTILE KHIE Khi	1	GUASORE.900	Chiller	Chiller 240T	2004
SILVER TEXTILE KHI	1	Cat-G3516	Process	Chiller 200T	2004
NAVEENA DNM KHI	1	Cat-G3520B	Process	Chiller 150T	2004
DUE TECH IND KHI	1	Cat-D3412	Chiller	Chiller 150T	2004
MODERN FIBRES KHI	3	Cat-G3516	Chiller	Chiller 350T	2004
ENGRO CHEM BQ KHI	3	Cummins	Daul Fuel	Urea Process	2004
COLO ITAL KHI	2	Wauk900	Process	Chiller 100T	2004
INDUS DYEING HYDRBD	2	Cat-G3516	Process	Process	2004
FLCON ABRASIVE	2	Cat-G3508	Chiller	Chiller 150T	2004
MARFANI DNM KHI	1	Cat-G3512	Chiller	Chiller 150T	2004
DOST SONS NOORBD	4	WAUKESHA	Chiller	Chiller 350T	2003



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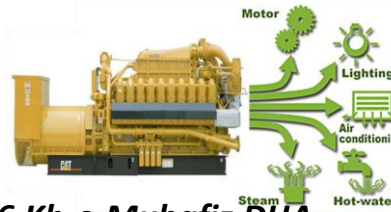
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SILVER TEX NORTH KHI	1	Cat-G3412	Process	Process	2003
LIBERTY TEX KHI	2	Cat-G3516	Process	Process	2003
PHARM EVO BIN QASIM	1	Cat-D3512	Chiller	Chiller 150T	2003
ADNAN POWER KHI	2	Cat-G3516	Chiller	Chiller 450T	2003
ART MIMMNR DNM KHI	2	Cat-G3516	Process	Boiler	2003
AMMAR TEX LHR	2	Cat-G3516	Process	Process	2003
ART DNM KHI	3	Cat-G3516	Process	Chiller 200T	2003
NAKSHBANDI IND KHI	1	Wauk635	Process	Process	2003
HUSSAIN TEX KHI	3	Cat-G3516	Process	Chiller 200T	2003
NAKSHBANDI KHI	2	Cat-G3516	Process	Process	2002
LIBERTY TEX KHI	4	Cat-G3516	Process	Chiller 150T	2003
ABBAS SPINNING KHI	6	Cat-G3516	Chiller	Chiller 150T	2002
MASTER TEXTILE LHR	1	Cat-D3512	Process	Boiler	2002
ALLIED ENGG KHR	1	Cat-D3306	Chiller	Chiller 065T	2002
GHAZI POWER LHR	6	CAT 3616 HFO	HEATSTM	STM	1996
LAHORE POWER LHR	6	CAT 3616 HFO	STM	STM	1995
AIJAZ POWER LHR	2	CAT 3612 HFO	STM	STM	1995
ALLIED ENGG KHI	1	G Cat-G3408	Chiller	Chiller 075T	2001
DIN TEXTILEPATOKI	1	CAT G3612			
FTC KHI STEAM TURBINE	4	FTC COGEN KHI	Chiller +	Electricity	1990
AEG-KANIS GAS TURBINE	7	AQUATOR FFC	Power	Electricity	1988
KESC STEAM TURBINE	2	KESC BQPS	Power	Electricity	1987
GHAZI FABRIC LHR	#	21 MWE HFO	EXHSUT STM	1982	1995
AQAUTOR GAS TURBINES	2	Fuaji fertilizers	process	process	1982
NED SOLAR ENERGY KHI	1	Solar Heat	Turbine	Electricity	1980
AQUATOR SPA ITALY FFC	2	Fuaji fertilizers	process	process	1982
NED SOLAR THERMAL KHI	1	Solar Heat	Turbine	Electricity	1980



COGEN™ SYSTEMS RADIATORS (VS.UK)



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