

LIST OF PLANT & MACHINERIES

Mahakaushal Sugar & Power Ind. Ltd. , Bachai, Narsinghpur

OLD MILL TANDEM

1	Cane Unloader 1 & 3									
	Type	Grab Type		Motor Detail				Gear Box Detail		
	Capacity	5 Tonne	Unloader	H.P.	RPM		AMPS	Make	Type	Ratio
	Working Span	22 Mtr.	Cane Hydraulic Pump	15	1460		15		10"	
	Lift	9 Mtr.	Cane Unloader	40	1440		33	Radicon	Horizontal	24::1
			Long Travel	15	970		24	Radicon	Horizontal	14.5:1
			Short Travel	7.5	970		22	Radicon	4 1/2" Horizontal	10:01
2	Cane Unloader 2									
	Type	Grab Type		Motor Detail				Gear Box Detail		
	Capacity	5 Tonne	Unloader	H.P.	RPM		AMPS	Make	Type	Ratio
	Working Span	22 Mtr.	Cane Hydraulic Pump	15	1460		15			
	Lift	9 Mtr.	Cane Unloader	30	970		33	Radicon	6 1/2" Horizontal	20:01
	Drum Size (I X D)	1270 X 385	Long Travel	15	970		24	Radicon	6" Horizontal	15:01
	Ganty Size (I X D X H) mts	(40 x 22 x 10)	Short Travel	7.5	1460		22	Radicon	4" Horizontal	20:01
3	Cane Carrier									
	Type			Motor Detail			Gear Box Detail			Spur Gear And Pinion 100/24
	Width	1530 MM		H.P.	RPM	AMPS	Make	Type	Ratio	
	Length	50 M								
	Depth	1350 MM								
	Drive	VFD	I	50	1440	71		Helical	83::1	
	No. of Sprocket	4 nos.								
	No. of Teeth	16 Teeth								
	Sprocket Teeth to Teeth Dia	850 MM								
	Length from leveller to fibrizer	20 M.								
	Dist. From Kicker to leveller	3500 MM.								
	Dist. From Kicker to Cutter	6600 MM.								
4	Kicker									
	Drum Diameter			Motor Detail				Gear Box Detail		
	Kicker Diameter	400		H.P.	RPM		AMPS	Make	Type	Ratio
	Levelling Plates	12 Nos		30	960		45	Radicon	Horizontal	20/1
	Pitch									
	RPM	75								
5	Chopper									
	Leveller Dia	1585		Motor Detail				Gear Box Detail		
	Shaft Diameter	175		H.P.	RPM		AMPS	Make	Type	Ratio
	Tip to Slat Distance	750 mm		250	587		340			
	Leveller Knife Tip to Hood Top Distance	480 MM								
	Knives	36								
	Pitch	58 mm								
	Clearance	750								

	Balance Wheel OD x Width	860 x 240								
6	Cutter									
	Leveller Dia	1575			Motor Detail			Gear Box Detail		
	Shaft Diameter	175			H.P.	RPM		AMPS	Make	Type Ratio
	Tip to Slat Distance	290		I	250	587		340		
	Leveller Knife Tip to Hood Top Distance	610 MM		II	300	587		340		
	Knives	42 Nos.								
	Pitch	45 MM								
	Clearance	290 MM								
	Balance Wheel OD X Width (flywheel)	860 x 242								
7	Mincer / Fibrizer									
	Shaft Diameter	250 MM			Motor Detail			Gear Box Detail		
	Hammer OD - Swing dia	2100mm			H.P.	RPM		AMPS	Make	Type Ratio
	Tip to Slat Distance	65 MM								
	Hammer Tip to Anvil Plate Distance	F - 100 C-60 D-20								
	Hood Centre Slat Distance	940								
	Pedestel Centre to Pedestal Distance	2340								
	Hammer	112 nos.								
	Clearance	20-60-100								
	RPM	800								
	Steam Turbine - Bellies, Type - MS-26	2000BHP								
	RPM	5000								
	Rotor / Gear Speed	5000/ 1000								
	Trip Speed	5500								
	Steam Pr.	32 Kg./m3								
	Exhaust	1.5 kg./cm2								
8	Rake Elavator -									
	Number of Sprocket	4 Nos.			Motor Detail			Gear Box Detail		
	Drive Sprocket OD	1040			H.P.	RPM		AMPS	Make	Type Ratio
	Shaft OD	150								
	Bosch OD	300	Direct Coupled		40/150	1440		50/70	-	- 108:1
	Pitch	9"								
	Length of Chain	90 M								
	Number of Rakes	66 Nos								
	No. of Teeth Sprocket (Driver)	14 Nos.								
9	Inter Rake carrier - 1									
	Number of Sprocket	4 nos.			Motor Detail			Gear Box Detail		
	Drive Sprocket OD	1040			H.P.	RPM		AMPS	Make	Type Ratio
	Shaft OD	135			30	960		37	Radicon	Horizontal 120/1
	Bosch OD	300								
	Pitch	9"								
	Sprocket Teeth Driver	14 nos.								
	Length of Chain	22 M								
	Number of Rakes	30 nos.								

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	GRPF NO. 3	Motor	power	F.M.G. Gear	Open gear	Pinion	R.P.M.					
		1440	250H.P.	168/1								
		Roller	OD	Pitch	Depth	Angle	RPM					
		Top	998	50	57	40						
		Bottom	984	50	57	40						
		Under Feed	945	50	57	40						
	14	Mill No- 4										
				Motor RPM	power KW	F.M.G. Gear	Open gear	Pinion	R.P.M.			
				993	500	35/1	129	29				
	Shaft No.	Roller	OD	Pitch	Depth	Angle	RPM	Lift				
	13	Top	820	38	32	50						
	10	Feed	813	38	41	40						
	12	Discharge	825	38	32	50						
	GRPF NO. 4	Motor	power	F.M.G. Gear	Open gear	Pinion	R.P.M.					
		1440	250 KW	35/1	129	29						
		Roller	OD	Pitch	Depth	Angle	RPM					
		Top	875	35	37	40						
		Bottom	890	35	37	40						
		Under Feed	900	30	30	40						
15	Pump For Mills			Motor Detail				Pump Details				
				H.P.	RPM	AMPS	Make	Type	Size	Head	Discharge	
	Unscreened Juice Pump - I			40	900	55						
	Screened Juice Pump - I			120	1440	110	sintech	6 HM 150/3	6" X 6"	65 M	260 m3/hr	
	Screened Juice P ump - II			100	1460	36	sintech		6" X 6"	65 M	260 m3/hr	
	meceration Juice Pump - I			30	1440	103	sintech	PKD 125/4	6" X 8"	65 M	150 m3/hr	
	meceration Juice Pump - II			30	1440	103	sintech	PKD 125/4	4" X 5"	15 M	150 m3/hr	
	Imbition Pump - I			30	960	35	sintech			60 M	150 m3/hr	

NEW MILL TANDEM

16	Cane Unloader 1 &2									
	Type	Grab Type								
	Capacity	5 Tonne								
	Working Span	22 Mtr.								
17	Cane Unloader 3									
	Type	Grab Type								
	Capacity	5 Ton								
	Working Span	22 Mtr.								
18	Cane Carrier									
	Type			Motor Detail			Gear Box Detail			
	Width	1700 MM		H.P.	RPM	AMPS	Make	Type	Ratio	
	Length	53 M								
	Depth	1350 MM								

	Drive	VFD	I	75	1400	71		Helical	4::1		
	No. of Sprocket	4 nos.									
	No. of Teeth	16 Teeth									
	Sprocket Teeth to Teeth Dia	850 MM									
	Length from leveller to fibrizer	13.150 M.									
	Dist. From Kicker to leveller	3500 MM.									
19	Cane Leveller I										
	Leveller Dia	1500			Motor Detail			Gear Box Detail			
					H.P.	RPM		AMPS	Make	Type	Ratio
	Tip to Slat Distance	700	I		250	587		340			
	Knives	28									
	Pitch	85									
	Balance Wheel OD x Width	860 x 240									
20	Cane Leveller - II										
	Leveller Dia	1575			Motor Detail			Gear Box Detail			
	Shaft Diameter	175			H.P.	RPM		AMPS	Make	Type	Ratio
	Tip to Slat Distance	290	I		250	587		340			
	Leveller Knife Tip to Hood Top Distance	610 MM	II		110	587					
	Knives	40 MM									
	Pitch	45 MM									
	Clearance	290 MM									
	Balance Wheel OD X Width (flywheel)	860 x 242									
22	Mincer / Fibrizer										
	Shaft Diameter				Motor Detail			Gear Box Detail			
	Hammer OD - Swing dia	1930mm			H.P.	RPM		AMPS	Make	Type	Ratio
	Hammer Tip to Anvil Plate Distance	F - 100 C-60 D-20									
	Hammer	96 nos.									
	Clearance	20-60-100									
	RPM	750									
	MOTOR KW	2000 KW									
	RPM	5000									
	Main Rake Elavator -										
	Number of Sprocket	4 Nos.			Motor Detail			Gear Box Detail			
	Drive Sprocket OD	1040			H.P.	RPM		AMPS	Make	Type	Ratio
	Pitch	9"									
					30	1470		50/70	-	-	186/1
23	Inter Rake carrier - 1&2										
	Number of Sprocket	4 nos.			Motor Detail			Gear Box Detail			
	Sprocket Teeth Driver	12 nos.			H.P.	RPM		AMPS	Make	Type	Ratio
	Pitch	200mm			15	1450					N2-14.11
24	Inter Rake Elavator -3 & 4										
	Number of Sprocket	4 nos.			Motor Detail			Gear Box Detail			
	Pitch	200 mm			H.P.	RPM		AMPS	Make	Type	Ratio
	Sprocket Teeth Driver	12 nos.			10	1450					N2-10.5
25	Mill No- 1										
			Motor	power KW	F.M.G. Gear	Open gear	Pinion	R.P.M.			

		R.P.M.								
		995	750	25.34	138	21				
	Roller	OD	Pitch	Depth	Angle	RPM	Lift	length		
	Top	835	50	45	50			1520		
	Feed	820	50	58	40					
	Discharge	830	50	48	45					
	GRPF No. 1	Motor	power	F.M.G. Gear	Open gear	Pinion	R.P.M.			
		1440	250 KW	55.89/1	145	33				
	Roller	OD	Pitch	Depth	Angle	RPM		length		
	Top	823	50	50				1520		
	Bottom	797	50	50						
	Under Feed	698	50	45						
26	Mill No- 2									
		Motor RPM	power KW	F.M.G. Gear	Open gear	Pinion	R.P.M.			
		995	750	25.34/1	138	21				
	Shaft No.	Roller	OD	Pitch	Depth	Angle	RPM	Lift	length	
	2	Top	800	50	45	50			1520	
	4	Feed	795	50	57	40				
	3	Discharge	812	50	50	45				
		Under Feed	835	70						
27	Mill No- 3									
		Motor RPM	power KW	F.M.G. Gear	Open gear	Pinion	R.P.M.	GRPF(OD*Length)		
		980	500	25.34/1	138	21				
	Shaft No.	Roller	OD	Pitch	Depth	Angle	RPM	Lift	length	
		Top	810	38	32	50			1520	
		Feed	768	38	42	40				
		Discharge	825	38	36	45				
		Under Feed	835	70						
28	Mill No- 4									
		Motor RPM	power KW	F.M.G. Gear	Open gear	Pinion	R.P.M.			
		990	500	25.34/1	138	21				
	Shaft No.	Roller	OD	Pitch	Depth	Angle	RPM	Lift	length	
		Top	820	38	32	50			1520	
		Feed	813	38	41	40				
		Discharge	825	38	32	50				
		Under Feed	845	70						
29	Mill No- 5									
		Motor RPM	power KW	F.M.G. Gear	Open gear	Pinion	R.P.M.			
		990	750	25.34/1	129	26				
	Shaft No.	Roller	OD	Pitch	Depth	Angle	RPM	Lift	length	

		Top	820	38	32	50			1520		
		Feed	813	38	41	40					
		Discharge	825	38	32	50					
	GRPF NO. 5	Motor	power KW	F.M.G. Gear	Open gear	Pinion	R.P.M.				
		990	250 KW	153/1							
		Roller	OD	Pitch	Depth	Angle	RPM				
		Top	875	50	50						
		Bottom	890	50	50						
		Under Feed	900	50	45						
30	Baggase Elevator										
	Type	Slat			Motor Detail			Gear Box Detail			
	Chain Size	6"			H.P.	RPM	AMPS	Make	Type	Ratio	
	No. of Slats	65			40	960		Radiction	41000	40::1	
	No. of Sprocket Teeth	12 Nos.			6"					M	
	No. of Sprocket	4 Nos.									
	Slats Size (L X W X T)	1105 X 250 X 5									
31	Boiler No. 1										
	working Pressure	21 kg/cm2			Motor Detail			Pump Details			
	Capacity	22 T.P.H			H.P.	RPM	AMPS	Make	Size	Head	Discharge
	H.S in M2	1160 M2	ID Fan Motor		250	1460	250				
	Furnace	Dumping	FD Fan Motor		50	1440	52				
	Grate Area (M2)	16 M2	Feed Pump Motor - 1		150	2900	200	KSB	MS	326 M3	82 M3/Hr
	Super Heater H.S.	96.0 M2	Feed Pump Motor-2		75	2900	100	KSB	MS	304 M	35 M3/Hr
	Super Heat	127°C	Turbo Feed Water Pump								
	Soot Blower	3 Nos.	FD Air Temp. after APH	140 / 150							
	I.D. Fan		Flue gas Temp. after APH	190							
	I.D. Fan RPM	800	Flue gas Temp. after SH								
	I.D. Fan Diameter	2.800 MM									
32	Boiler No. 2 Ref. WIL										
				POWER	RPM						
	Pressure	65 Kg.Per Cm2	ID Fan Motor	320 kw	990						
	Capacity	57 TPH	FD FAN	110 HP	1440						
	Heating Surface Area	3185m2	SA FAN	160 HP	1440						
	Temprature	485 C									
33	Boiler No. 3 THEMAX/40TPH										
				POWER	RPM						
	Pressure	32 Kg.Per Cm2	ID Fan Motor	320 kw	960	300					
	Capacity	40 TPH (After Modificatio n)	FD FAN	100 HP	1440	110					

	Heating Surface Area		SA FAN	160 HP	1440	110					
	Furnace	351 m2	410-470 m2								
	Boiler Bank	695 m2	800+1000m2								
	Economizer	365 m2	250-400m3								
	Super Heater	133 m2									
	Air Heater	810	1150m2								
	Boiler Bank	695 m2	800+1000m2								
	Economizer	365 m2	250-400m3								
	Super Heater	133 m2									
	Air Heater	810	1150m2								
34	Boiler No. Thermax 70TPH										
	working Pressure	67 kg/cm2			Motor Detail			Pump Details			
	Capacity	70 T.P.H			KW	RPM	AMPS	Make	Size	Head	Discharge
	H.S in M2	4185 M2	ID Fan Motor	2 Nos	315/250	990					
	Furnace	Dumping	FD Fan Motor	2 Nos	110/110	1440					
			SA Fan Motor	2 Nos	160	1440					
			Feed Pump Motor - 1		320	2900		KSB	MS	950	65 M3/Hr
			Feed Pump Motor-2		320	2900		KSB	MS	950	65 M3/Hr
			Feed Pump Motor - 3		400	2900		KSB	MS	950	90 M3/Hr
			Feed Pump Motor-4		400	2900		KSB	MS	950	90 M3/Hr
35	Chimney										
	Material	RCC									
	Diameter	4200 mm									
	Height	56 m									
	Draft	Balanced									
36	Work Shop										
					Motor Detail			Gear Box Detail			
				H.P.	RPM	AMPS	Make	Type	Ratio		
	Lathe Machine 1	6 ft x 12"		5	1460	7					
	Lathe Machine 2	12 ft x 16"		15	1460	20					
	Lathe Machine 3	12 ft x 16"		15	1460	20					
	Lathe Machine 4	22 ft x 30"		15	960	21					
	Shaper Machine No.1			2	1440	3					
	Shaper Machine No.2			5	1440	7					
	Grinder Heck Saw Machine			2	2900	3					
37	Juice Heater	V.L.J.H.	V.L.J.H.								
A				1	2	5	4	Cl.J.H.	DY.J.H.	3	JH 2Nos New 6
	Heating Surface	300 M2	175 m2	350 M2	250 M2	215 M2	260 M2	170 m2	300M2-2	500 m2	350m2
	Tube Length	4010 MM	4010 MM	4010 MM	4010 MM	4010 MM	4010 MM	4010 MM	4010 MM	4010	4010mm
	ID / OD	42/ 45 MM	42/45 mm	47/50 MM	42/45 MM	42/45 MM	42/45 MM	42/45 MM	42/45	42/45	42/45
	Material	S.S.	Brass	Brass	Brass	Brass	Brass	Brass	Brass	Brass	ss
	No. of Tubes	576	320	640	460	400	480	320	576	920	640
	Tubes / Pass	26	32	28	36	20	20	16	26	45	28
37	Juice Heater	New			DCH-1	DCH-2					
B											
	Heating Surface	400 m2	400 m2	400 m2							

			1	2	3	4	5			
		Make	Arzen	SLM	Ehibon					
		Type	GR 77	RP 50	ROUBAIX					
		Air Pressuer	1Kg/M2	1Kg/M2						
		Qty.	1200 M3/hr	1600 M3/hr	800 M3/HR	500 M3/HR	2000m3/Hr			
		Motor Details	H.P.	AMPS						
		1	40	50						
		2	30	30						
		3	30	40						
44	Rotory Vaccume Filter									
	1	2	3							
	Make- Rajput Engg.	Raj Engg.	Triveni							
	Size - 12ft* 24ft	12 ft.x 24ft.	8 ft.x 16ft.							
	Filter Area 76 M2	76 M2	36 M2		Motor Details		Gear Box Details			
	Perforation- 625 Holes/ inc. Sq.	625 Holes/ inc. Sq.	625 Holes/ inc. Sq.	H.P.	R.P.M.		Make	Type	Ratio	
			1st Oliver							
			Drum Drive	3	1440		C.P.E.C.	U- 400	30.: 1	
			Agitator	3	1440		C.P.E.C.	U- 400	60.: 1	
			2nd Oliver							
			Drum Drive	3	1440	Ratio	C.P.E.C.	U- 400	30.: 1	
			Agitator	3	1440	40/1	C.P.E.C.	U- 400	60.: 1	
			Drum Drive	5	1440	40/1			Pump Details	
			Agitator	3	1440		Make	Type	Size	Head
			Mud Pump No.1	10HP	1440		SINTECH	3 NK 10	80 x 80	20 Mtr.
			Mud Pump No.2	10HP	1440		Kirlosker	3 NK 10	80 x 80	20 Mtr.
			Filter Pump No.1	10HP	1440		SINTECH	BKW 65/2	80 x 50	20 Mtr.
			Filter Pump No.2	10HP	1440		Kirlosker	BKW 65/2	80 x 50	12 Mtr.
			Vaccume Pump 1	100	1440		Vacunair	11.09.29		2200 m3/hr
			Vaccume Pump 2	75	640	55	Vacunair	11.096.29		700 HAG
	Mud Conveyar			10	1440	25/1				
45	Clear Juice Pump									
					Motor Details				Pump Details	
				H.P.	R.P.M.		Make	Size	Head	Discharge
		Pump No.- 1		100	1440	AMPS	SINTECH	200 x 150	60 M	260 M3/ hr.
		Pump No.- 2		100	1440		Vikas	200 x 150	60 M	260 M3/ hr.
		Pump No.- 3		240	1440		Kirlosker	150*125 ^{65M}	450 M3/hr	
46	Lime Slaker									
				Motor Details			Gear Box Details			
				H.P.	R.P.M.	AMPS	Type			Raio
	Caapacity	1200 Kg./hr		5	960		U- 500			.40:1

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	Body No. 4 Condensate Pump- 1			15	1440		Kirlosker		100 x 75	30 Mtr.	4.67 /Sec.
	Body No 4Condensate PumP- 2			20	1440	40	Kirlosker		150 x 125	50 Mtr.	50 M3 /hr.
	2000Vapour Cell Condensate Pump1&2				1440						75m3/hr
	1000Vapour Cell Condensate Pump1&2			15	1440		Kirlosker		80X65	36m	50m3/hr
51	Syrup Pump										
					Motor Details			Pump Details			
				H.P.	R.P.M.	AMPS	Make	Type	Size	Head	Discharge
	Unsulphited Syrup Pump No. 1			40	1440		Vikas		150 x 125	50 Mtr.	65 M3/hr
	Unsulphited Syrup Pump No. 2			75	1440		Kirloskar		150 x 200	60 mtr	100 m3/hr
52	Syrup Sulphitor Tank										
	Working Capacity	110 H.L.	180 HL								
	Working Height	1700 mm	1500mm								
53	Over Head Tanks (for Molasses)										
	Storage	Melt	A.L. + A.H.	B.H.	C.L.	Syrup	C1 Hy				
	Number	2	10 + +	3	2	40	1				
	Capacity in M3	10	10	10	20	10	10				
	Sy. Tank	4	300 HL	AL-175/HL-1	Melt-1/HL-2	AH-5/HL-165	BH-4/HL-165	C1H-165/HL-1	CL-31/HL-180	HL-190/HL-77	
54	Vaccum Pans	1	2	3	4	5	6	7	8	9	10
	Boiling	A Mass (1)	A Mass (2)	A Mass (3)	A/B Mass (4)	B Mass (5)	B Mass (6)	B/C Mass (7)	C Mass (8)	C Mass (9)	C Mass (10)
	Type	Low head	Low head	Low head	Low head	Low head	Low head	Low head	Low head	Low head	Low head
	Down Take	Central	Central	Central	Central	Central	Central	Central	Central	Central	central
	Capacity in m3	42	56	42	42	42	28	28	28	28	
	in M.T.	60	80	50	60	60	40	40	40	40	80
	H.S. in M.T.	285	403	250	277	250	185	185	185	185	
	Tubes	1168	1510	750	1062	750	550	550	550	550	
	I.D. / O.D.	98/102	98/102	98/102	98/102	98/102	98/102	98/102	98/102	98/102	98/102
	Length in mm	900	900	1210	900	1210	1120	1120	1120	1120	750
	S/V Ratio										
	Material	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
	Save-all	C/f type	C/f type	C/f type	C/f type	C/f type	C/f type	C/f type	C/f type	C/f type	C/f type
55	Pans	11	12	13	14						
	Boiling	A Mass (1)	A Mass (2)	B Mass	C Mass						
	Type	Low head	Low head	Contineous	Contineous						
	Down Take	Central	Central								
	Capacity in m3										
	in M.T.	120	120	40 T/hr	30 T/hr						
	H.S. in M.T.	625	625	1250	785						
	Tubes	2498	2230	3550	3040						
	I.D. / O.D.	98/101.6	98/101.6	100.37/102	100.37/102						
	Length in mm	800	900	900	900						
	S/V Ratio			11 compt	11 compt						
	Material	SS	SS	SS	SS						
	Save-all	C/f type	C/f type								

56	Falling Film	Capacity	Tube ID	Tube OD	Tube Length						
		3500 m2	42.6	45	10010						
	Falling Filling Pum	Make	Capacity	HP	AMP	Head	Nos.				
		Syntech	400 M3/hr.	150	140	40 M	1				
57	Pan Condensate	Syntech	260 M3/hr.	75	90	36 M	4				
				Motor Details			Pump Details				
				H.P.	R.P.M.	AMPS	Make	Type	Size	Head	Discharge
	Condensate Pump-1			15	1460	30	Kirloskar	DB 100/40	100 x 75	55 mtr	27.7 ltr/sec
	Condensate Pump-2			40	2900	15	Kirloskar	KDS 1030	80 x 50	30 mtr	16 ltr/sec
	Condensate Pump-3			30	1440			DB 100/125	100 x 125	30 mtr	
58	Condensers										
		1+1 - Quad	Pan - 1	Pan - 2	Pan - 3	Pan - 4	Pan - 5	Pan - 6	Pan - 7	pan-7	
	Diameter in mm	1100	790	910	1050	1150	1150	1150	1150	1500	
	Height in mm	2500	2050	2440	2700	1900	1900	1900	1900		
	Vapor inlet dia	1000	1100	1100	1050	920	920	920	920	1500	
59	Injection Pump										
				Motor Details			Pump Details				
				H.P.	RPM	-		Head	Capacity		
	1			100	1440			20 Mtr	700 m3/hr		
	2			100	1440			20 Mtr	700 m3/hr		
	3			100	1440			20 Mtr	700 m3/hr		
	4			100	1440			20 Mtr	700 m3/hr		
	5			100	1440			20 Mtr	700 m3/hr		
	6			100	1440			20 Mtr	700 m3/hr		
	7	Verticle Pump		400	960			22 Mtr	3000 m3/hr		
	8	Verticle	2 Nos	250	960			22 mtr	1400 m3/hr		
60	Spray Pond										
				Motor Details			Pump Details				
				H.P.	R.P.M.	AMPS	Make	Type	Size	Head	Discharge
	Nozzals	480	2 Nos	150	960		Kirloskar	MF 35 x 35	350 x 350	10 mtr	1600 m3/hr x 5 nos
	Type	Involute	2 Nos	150	960	128	Kirloskar	MF 35 x 35	350 x 350	10 mtr	1600 m2/hr
	Type	Involute	1 Nos	150	960	125	Kirloskar	MF 35 x 35	350 x 350	12mtr-20mtr	1600 m3/hr
61	Cooling Tower										
				Motor Details			Pump Details				
				H.P.	R.P.M.	AMPS	Make	Type	Size	Head	Discharge
	Make	Armec		215	1440	265		12 UP .H-1		15 mtr	1200 m3/hr
	No. of Nozzals	702									
	Capacity	1200 m3/hr									
	Note	1200 m3/hr		100		120		UP 12			
62	Horizontal Crystizer Capacity										
	1 no.	85 M.T. air cool			Motor Details						
	100 M.T.										
	3,4&5	65 M.T. air cool					Ger Box Detail				

	CAW - NK-1100 - 1											
	MK-1100 - 1											
	Capacity	1000 Kg/Charge	1		4 Speed							
	Drive R.P.M. Fully Autometic Machne Capacity Drive R.P.M.	A Mass.										
		1750 Kg.per charge	4	145 kw	4 Speed							
	Drive R.P.M. Fully Autometic Machne Capacity Drive R.P.M.	A Mass.										
		1750 Kg.per charge	1	215 kw	4 Speed							
64	Air Compressor (Centrifugal M/c)											
	1	2	3	4		Motor Details						
Make	I & R	I & R		A & P		H.P.	R.P.M.	AMPS				
Type	ESV - 1 - NL- 2	ESB - 1 -NL- 2	ESB - 1-LUV	NL	1	40/50	1450					
R.P.M.	750	750		750								
Air Pressure	7 kg/cm2	7 kg/cm2		7 Kg/cm	2	40	1450					
Discharge	125 m3/hr	125 m3/hr	125 PSIG	300 CFM	3	50	1450					
Size	7 x 5	7 x 5		11x7		75	1450					
65	Pumps											
			Motor Details			Pumps Details						
			H.P.	R.P.M.	AMPS	Make	Type	Size	Head	Discharge		
Melting Pump No. -1			30	1440		Kirloskar	SHM 68x3	80x65	30M/t	45 M3 per Hr		
High Flow			30	1440		Rotomac				60 M3 per Hr		
A Heavy/ Molasses Pump - 1			10	1440		Dev Engg			100 mtr	30 M3 per Hr		
A Heavy/ Molasses Pump - 2	high flow		15	1440		rotomac		200x200	30 mtr	60 M3 per Hr		
A Light Molasses Pump - 1	high flow		15	1440		rotomac		200x200	30 mtr	60 M3 per Hr		
A Light Molasses Pump - 2			10	1450						30 M3 per Hr		
B Heavy Molasses Pump - 1			10	1155						30 M3 per Hr		
B Heavy Molasses Pump - 2			10	1450						30 M3 per Hr		
C Light Molasses Pump - 1			10	1450						30 M3 per Hr		
C Light Molasses Pump - 2			10	1155						30 M3 per Hr		
Final Molasses Pump - 1			20	750					30M/t	35 M3 per Hr		
Final Molasses Pump - 2			20	960					100 mtr	30 M3 per Hr		
Super Heater Pump - 1			20	2900		Pk Process	PKO 50/20	80x50	20 M/t	7 Letter Per se		
Super Heater Pump - 2			20	2900		Pk Process	PKO 50/20	80x50	20 M/t	7 Letter Per se		
AH-2 CL.-2 (6"x6")	high flow		15			Gajanan			30 mtr	30 m3/hr.		
AL-2 Final-2	high flow					Risansi						
BH-2												
CJH-2						Gajanan			30 mtr	15 m3/hr.		
c magma pump- 3 nos	for vertical	3 Nos	30	1440		Gear Box	U. Type	40/1		30 m3/hr		
C Magma Pump - 1		4 Nos	15	1440		Gear Box			36 mtr	30 Cu-m per H		
C Magma Pump - 2			15	1440		Gear Box	U-700	60/1				

	C continuous pan cry pump		1 Nos							30 mtr	50 m3/hr
	B continuous pan cry pump		2 Nos							30 mtr	50 m3/hr
	B Vertical ,transfer pump									30 mtr	50 m3/hr
	B Magma Pump - 2										
	Dry Seed Magma Pump - 1			25	1440						53 Cu-m per H
	Dry Seed Magma Pump - 2										
	C After magma Mixer Drive			15	1440		Gear Box	U-700	RATIO-60/1		
	C Magma Mixure Drive			10	1440		Gear Box	U-700	RATIO-60/1		
	C Magma Pump	Make	Capacity	Head	Drive	Ratio	HP	AMP	Nos.	Type	Suc & Dis.
	1	Gita	30 Ton	30 Mtr.	Palanatory	37.3/1	30	22	1		
	2	Gita	26 Ton		Red. Gear Box	40/1			1	U-700	8"x8"
	B Magma Pump	Make	Capacity	Head	Drive	Ratio	HP	AMP	Nos.	Type	
		Gita	20 T	25 Mtr.	Red. Gear Box	40/1			1	U-700	8"x8"
		Gita	40 T	30 Mtr.	Red. Gear Box	40/1			1	U-700	10"x10"
		Syntech	35 T	30 Mtr.	Red. Gear Box	40/1			1	U-700	10"x10"
	A Pugmil Mootr Drive - 1			10	1440		Gear Box	U-500	RATIO-25/1		
	A Pugmil Mootr Drive - 2			10							
	B Pugmil Motor Drive - 1			10							
	B Pugmil Motor Drive - 2			10							
	Dry Seed Magma Mixer			7.5	1440		Gear Box	U-700	RATIO-60/1		
	Dry Seed Mixer										
	Hot Air Blower			10	2900		Hopper rpm				
	Cooled Air Blower			10	2900						
	Sugar old Hopper No. - 1	Singal Tray	1800	15	1440		254				
	Sugar old Hopper No. - 2	Multy Tray	1800	15	1440		272				
	Sugar old Hopper No. - 3	Multy Tray	1500	15	1440		265				
	Sugar old Hopper No. - 4	Multy Tray	1500	15	1440		265				
	Sugar New Hopper No. - 1		2000	20	1440		254				
	Sugar New Hopper No. - 2		2000	20	1440		272				
	Sugar New Hopper No. - 3		2000	20	1440		265				
67	Sugar Grader										
				Motor Details			Pump Details				
				H.P.	R.P.M.	AMPS	Make	Type	Size	Head	Discharge
	No. - 1 20 M.T./hr.	6 Deck	IC Make	30	960						
	No. - 2 20 M.T./hr.	6 Deck	IC Make	30 HP	960						
	No. - 3 35 T/Hr.	6 Deck	IC Make	30	960						
68	Sugar Elevetor										
		Moter	Gear Box								
		hp	rpm		Ratio	Hight				No. of Bucket	
	3-40 Ton	20	1440	4-800	40:11						
	Old	20	1440	40/1	60/1	17.5M				100	
	New	20	1440	50/1	50/1	18.5M				96	
		20	1440	40	40:11	2014					
69	Final Molasses Tank										
				Motor Details			Pump Details				
				H.P.	R.P.M.	AMPS	Make	Type	Size	Head	Discharge

	Capacity	3000 M3						Dia-20mtr		
								Hight- 10mtr		
	Molasses Extraction Pump	Make	Size	Nos.	Capacity	HP	RPM			
		Rotomac	6"x6"	2	30 T/hr.	15	1440			
	"B" Masecuite Transfer Pump	Make	Capacity	Head	Drive	HP	RPM	Ratio	Nos.	Type
		Gita	50 Ton	30 Mtr.	Planatary	50	1440	37/1	1	
		Syntech	40 Ton	30 Mtr.	Red. Gear Box	40/1		40/1	1	U-800
	"C" Transfer Pump	Capacity	Head	Drive	HP	RPM	Ratio	Type	Nos.	
		50 Ton	30 Mtr.	Planatary	50	1440	37/1		2	
	Note: One no. also used as liquidation for "B" vertical crystallizr									
	Vacuum Pump	Make	Capacity	Size	Nos.					
		Vaccunair	2000 m3/hr.	100	3					
70	E.T.P.									
				Motor Details			Pump Details			
				H.P.	R.P.M.	AMPS	Make	Type	Size	Head
	Pump No. 1			15	2900	15	Kirlosker	60 x 60	65 x 80	40 mtr
	Pump No. 2			7.5	2900	7	Kirlosker	MBNS - 52	65 x 50	36 - 42 Mtr.
	Pump No. 3			7.5	2900	7	Crompton	MBNS - 52	65 x 50	36 - 42 Mtr.
	Pump No. 4			2	2900	3	-	SPOM	40 x 40	6.5 Mtr.
							Gear Box Details			
							Make	Type	Ratio	
	Stirrer No. - 1						Redicon		.60:1	
	Stirrer No. - 2						Redicon		.60:1	
71	Tubewells									
				Motor Details			Pump Details			
				H.P.	R.P.M.	AMPS	Make	Type	Size	Head
	No. - 1 on E.T.P.			8	2900	10		Submersib	50 MM.	100 Mtr.
	No. - 2 on Montecarlo			10	2900	12		Submersib	50 MM.	100 Mtr.
	No. - 3 Spray Pond			12.5	2900	15		Submersib	50 MM.	100 Mtr.
	No. - 4 Godown			8	2900	10		Submersib	50 MM.	100 Mtr.
72	Water Service Pump									
				Motor Details			Pump Details			
				H.P.	R.P.M.	AMPS	Make	Type	Size	Head
	Pump No. 1			20	1470	30	Imported	VRF 3/350		20 Mtr.
	Pump No. 2			20	1470	30	Imported	VRF 3/350		20 Mtr.
73	Low Pressure Turbine No. 1									
				Alternator			Exciter			
	Make	Triveni		Make	ASGEN		Make	ASGEN, Italy		
	Year	1980		Year	1975		Power	14.5 KW (DC)		
	Type	550 mm		Poiner	3000 KVA		RPM	1800		
	Power	2.5 mw		P.F.	0.8		Voltage	102 V (DC)		
	Steam Inlet Press	21 kg/cm2		Volts	450 Volts		Current	142 AMPS (DC)		
	Steam Inlet Temp	300/350 c		Amps	4492 AMPS		Self Excitati	40 Volts & 4.1 AMP (DC)		
	Exhaust Pressure	0.95 kg/cm2		RPM	1800					
	Rotor / Gear	8325/1500 RPM		Frequensy	60 Cycle/sec					

74	Low Pressure Turbine No. 2		Alternator		Exciter					
	Make	M/s Belliss	Make	ASGEN	Make	ASGEN, Italy				
	Year	1980	Year	1975	Power	14.5 KW (DC)				
	Type	BD-2	Poiner	3000 KVA	RPM	1800				
	Power	2.5 mw	P.F.	0.8	Voltage	102 V (DC)				
	Steam Inlet Press	32 kg/cm2	Volts	450 Volts	Current	142 AMPS (DC)				
	Steam Inlet Temp	380 c	Amps	4492 AMPS	Self Excitati	40 Volts & 4.1 AMP (DC)				
	Exhaust Pressure	1.5 kg/cm2	RPM	1800						
	Rotor / Gear	6000/1500 RPM	Frequensy	60 Cycle/sec						
75	Low Pressure Turbine No. 3		Alternator		Exciter					
	Make	M/s Belliss	Make	jyoti	Make	Jyoti				
	Year	1982	Year		Power	26 KW (DC)				
	Type	GN-36	Poiner	2500 KVA	RPM	1500				
	Power	2 mw	P.F.	0.8	Voltage	70 V (DC)				
	Steam Inlet Press	21 kg/cm2	Volts	440 Volts	Current	372 AMPS (DC)				
	Steam Inlet Temp	300/350 C	Amps	3208 AMPS						
	Exhaust Pressure	2.5 bar	RPM	1500						
	Rotor / Gear	6500/1500 RPM	Frequensy	50 Cycle/sec						
76	Power Turbine No. 4		Alternator		Exciter					
	Back Pressure									
	Make	M/s Seimens Eme India Pvt Ltd	Make	Seimens	Make	Seimens				
	Year	1978	Year		Power	53 KW				
	Type				RPM	1500				
	Power	12.8 MW	P.F.	0.8	Voltage	104 V				
	Steam Inlet Press	77-78 Kg/cm2	Volts	6.3 KV	Current	510 A				
	Steam Inlet Temp	490 c	Amps	1466 AMPS						
	Exhaust Pressure	2.5 kg/cm2	RPM	1500						
	Rotor / Gear	6500/1500 RPM	Frequensy	50 Cycle/sec						
77	Power Turbine No. 5		Alternator		Exciter					
	Condensing Turbine									
	Make	M/s Kaluga	Make	Electrosila	Rasia					
	Year	2003	Year	2003	Power					
	Type	K-12-64	Poiner		RPM	1500				
	Power	12 MW	P.F.	0.8	Voltage	72 V				
	Steam Inlet Press	64 kg/cm2	Volts	11000 Volts	Current					
	Steam Inlet Temp	480 C	Amps	787 AMPS						
			RPM	3000						
	Rotor / Gear	3000 RPM	Frequensy	50 Cycle/sec						
78	Weigh bridge									
	Tare	2	Nos							
	Gross	2	Nos							
	For Bullock cart	1	Nos							

[illegible]