PROJECT BANKO PROJECT TITLE COAL PULVERIZER AND DRYING EQUIPMENT

EQUIPMENT LIST (Gasification Plant)

		REMARKS							Rai 44 4 0 4 - 04 - 44 - 44	Out of Supply	
r Hitler	z	TEMP	2	50			50			80	
	DESIGN	PRESS	P&/ CIII	S			ы			o	
	on)	Mado	CEN							-	
	WEIGHT (ton)	LOUL	1031								•
	WE I	200	7929	0.5			0.5 %		· · · · · · · · · · · · · · · · · · ·		
		SPECIFICATION		ø 3,000 x 2,40	Volume : 2 m ³	Discharge Feeder Motor : 0.2 KW	- 41,300 x 2,400 H	Volume : 2 m ³	Discharge Feeder Motor : 0.2 KW	or Capacity : 70 t/hr	
		JA A.L		Steel Plate	Type		Steel Plate	UVLINGTICAL Pressure		Belt Conveyor	
	ON N	REQD		7			1			8	
		SERVICE		Pulverized	Surge Hopper		Pulverized	coal injec- tion Tank		Coal Conveyor for Power Station	
	EQUIPMENT	I TEM NUMBER		2-54			2-55			2-101	
										-33	7-

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PROJECT BANKO PROJECT TITLE COAL INJECTING EQUIPMENT

EQUIPMENT LIST (Gasification Plant)

	REMARKS					**************************************							C			-	
Ň	TRMD	- C	30		08		80		1,600						:		
DESIGN	PRESS	Kg/cm ²	o		19		19		19							 	
(u		NGO													-		
WEIGHT (ton)		TEST															
HEI		EREC	10.9 %		63.3 %		0.7 3		3.7. 2						<u></u> .		
	SPECIFICATION		5,000 ø x 10,500 H (Cylinder Height 6.2m) (Cone Height 4.3m)	Volume : 140 m ³ With Bag Filter	4,600 & x 6,700 H (Cylinder Height 3.0m) (Cone Height 3.7m	$\begin{array}{rcl} \text{volume} & : & 70 \text{ m}^3 \\ \text{with Load Cell} \end{array}$	Capacity : 70 t/hr	Motor : 15 KW Speed Reducer Number of Rotation : 16 rpm	250 ¢ x 9,500 L	Capacity : 17.4 t/hr	Internal Structure :	Center Tube: CO ₂ + Pulverized Coal	Second Tube: 02	Third Tube: Cooling Water In	Fourth Tube: Cooling Water Out		
	TYPE		Steel Plate Cylindrical Type		Steel Plate Cylindrical Pressure	Vessel	Rotary Feeder		Fourfold Tube	Lance					 		
;	ON CORR	עאסע	Q		12		12		24						•		
	SERVICE		No.2 Pulver- ized Coal Surge Hopper		Pulverized Coal Injec- tion Tank		Pulverized	coal Dis- charge Feeder	Main Lance								
EQUIPMENT	ITEM	NUMBER	3-1		3-2		3-3		3-4			· · · · · · · · · · · · · · · · · · ·					-

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EQUIPMENT LIST (Gasification Plant)

	REMARKS						Value of	1 a 1 a 1													
Z	TEMP	v	50				50	-	50		50		50		50		50		50		
DESIGN	PRESS	Kg/cm ⁴	0				0		0		0		0		0		Q		o		
. (uo		NGO																			
WEIGHT (ton)		TEST					-														
IIM		EREC	5.4.5				1.5 \$		11 38		14 3		17 32		4 O 32		9 9 9		43 8		
	SPECIFICATION		Plate 23,000 x 7,200 H	Prism Height Pyramid Height	Volume : 38 m ³	With Lining	R Capacity : 5 2/hr	Motor : 2.2 KW	lveyor Capacity : 5 2/hr	Motor : 1.5 KW	Type Capacity : 5 %/hr	Motor : 1.5 KW	Conveyor Capacity : 5 %/hr	Motor : 1.5 KW	Adjust 1,000 x 1,000 x 1,000	Distributor with Square Damper	Conveyor Capacity : 5 t/hr	Motor : 0.75 KW	Conveyor Capacity : 5 t/hr	Motor : 3.75 KW	With Tripper With Shooter
	TYPE		Steel Pl.	r ajanhe			Vibrating	Feeder	Belt Conveyor		Bucket T		Belt Con		Damper Adjust		Belt Con		Belt Con		
, N	REQD		-				ŗ		T		1		1				2		2		
	SERVICE		Receiving	200112			Sub-Material Discharge	Preeder Feeder	Sub-Material	CONVEYOF (1)	Sub-Material Puckos	Conveyor	Sub-Material	COUVEYOF (2)	Distributor		Sub-Material	CONVEYOF 131	Sub-material	121 JORANON	
EQUIPMENT	ITEM NUMBER		4	· · ·			4-2		4-3		440- 4	-	1 4		4-6	•	4-7		4-8		

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EQUIPMENT LIST (Gasification Plant)

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PROJECT BANKO PROJECT TITLE SUB-MATERIAL EQUIPMENT

REMARKS TEMP • C 80 20 20 50 50 50 DESIGN PRESS Kg/cm² 0 0 ÷ 0 0 0 Ndo WEIGHT (ton) TEST 1.0 % 0.2 2 0.2 3 23 8 0.7 38 0.2 1 0.49 EREC : 1,750 : 1,470 : 1,750 : 2,430 : 2,200 : 2,430 36 T/hr SPECIFICATION ິ ສ ‴≘ : 2 2 KW ິຣ 8. 3 /hr 0.4 KW 6 W/hr 0.4 KW б С ^{D1}1,000 × 2,730 H Ξ r 1.4 9.0 2.5 ^[]2,200 x 4,630 10 ^[]1,200 x 3,220 Ø 800 x 2,200 H Prism Height Pyramid Height Prism Height Pyramid Height Prism Height Pyramid Height With Load Cell •• .. •• 1 • • •• •• ••• Capacity Capacity Capacity Volume Volume Volume Volume Motor Motor Motor Steel Plate Pressure Vessel Steel Plate Square Type Steel Plate Square Type Steel Plate Square Type TYPE Vibrating Vibrating Vibrating Feeder Feeder Feeder No REQD Ģ ø φ ø ω ശ ശ Quick Lime Scale Hopper Scrap Hopper FeAl Hopper Scrap Discharger Quick Lime Discharger FeAl Discharger Quick Lime Hopper SERVICE EQUIPMENT ITEM NUMBER 4-14 4-15 4-10 4 - 134-12 4-13 4-9

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EQUIPMENT LIST (Gasification Plant)

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	REMARKS																	 	
iN	TEMP	0	80			50	·			50		50		50		50			
DESIGN	PRESS	Kg/cm ²	ঝ			0				0		0		0		0			
(uo		NGO														L		 	
WEIGHT (ton)		TEST																	
(EIM		EREC	0.4 18			5.4 8				0,3 🕷		84 00 00		11 12		691 (*)		 	
	SPECIFICATION		ø 500 x 1,600 H	Volume : 0.15 m ³	With Load Cell	Шз,000 × 7,200 Н	Prism Height : 3,500 H Pyramid Height : 3,700 H	Volume : 38 m ³	With Lining	Capacity : 9 g/hr	Motor : 0.75 KW	Capacity : 9 T/hr	Motor : 1.5 KW	Capacity : 9 g/hr	Motor : 1.5 KW	Capacity : 9 g/hr	Motor : 0.4 KW		
	TYPE		Steel Plate	rressure Vessel		Steel Plate	adit aranbe	-		Vibrating	Feeder	Belt Conveyor		Bucket Type		Belt Conveyor			
Č,	REQD	,	<u>છ</u>			1				1		I		F 4		J		 	
	SERVICE		Scrap, FeAl	scare nopper		Receiving	2000			Lime Stone	Feeder	Lime Stone		Lime Stone	Conveyor	Line Stone	conveyor (2)		
EQUIPMENT	ITEM	NUMBER	4-16			4-50	• • •			4-51		4-52		4-53		4:-54			

EQUIPMENT LIST (Gasification Plant)

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EQUIPMENT					IEM	WEIGHT (ton)	(uc	DESIGN	NE	
ITEM	SERVICE	D NO	TYPE	SPECIFICATION				SSaad	TTEMD	REMARKS
NUMBER					EREC	TEST	NGO	Kg/cm ²	0	
4-55	Lime Calciner	H	Direct Heating	Kiln Dimension 2,100 ø × 10,000 L	226 🕱			0.2	1,200	
,				Capacity : 4.3 g/hr						
				Burner Fuel : Pulverized Coal						
				Motor : 20 KW		. –				· .
				Accessory : Discharge Feeder	<u> </u>					
				Motor : 2.2 KW × 6 Unit	······					
4-56	Dust		Suction Type	Capacity : 13,900 m ³ /hr	70 8			0.2	100	
	rottector		Rag FILTER	Accessory : Discharge Feeder	:					
										•
				Motor : 0.4 KW x 2 unit						
4-57	Exhaust		Turbo Blower	Capacity : 13,900 m ³ /hr	0.8 %			0.2	100	
	Jamora			Pressure Head : 1,000 mm Aq	· · · ·					
				Motor : 80 KW						
4-58	Exhaust Stack	ī	Steel Plate	1600 ¢ × 70,000	55 g			0.2	100	
4-59	Quick Lime	T	Screw	Capacity : 5 %/hr	B\$ \$2			0	50	
	Conveyor (1)		Conveyor	Motor : 0.4 KW	r					
4-60	Quick Lime	7	Bucket Type	Capacity : 5 %/hr	14 22			0	50	
	Conveyor			Motor : 1.5 KW						
4-61	Quick Lime	Н	Steel Plate	2,500 ¢ × 4,630 H	2.3 %			0	50	
· · · · · · · · · · · · · · · · · · ·	S LOT BE		Type	Volume : 10 m ³		. 1		· .		
		<u> </u>		-						

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EQUIPMENT LIST (Gasification Plant)

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	REMARKS								1		 			 		 		
NS	TEMP	ъ •	20		50							-		 				
DESIGN	PRESS	Kg/cm ²	0		0							 		 		 		
(i		NGO					-	 			 			 		 		
WEIGHT (ton)		TEST																
NEI		EREC	1.5 20		6 6 8					 I				 				
	SPECIFICATION		Capacity : 5 %/hr	Motor : 2.2 KW	Capacity : 5 %/hr	Motor : 0.75 KW				· · ·								
	TYPE		Rotary Feeder		Belt Conveyor			 			 			 		 		
	NO REQD		, 14											 				
	SERVICE		Quick Lime	Feeder	Quick Lime	CONVEJOF 14)												
EQUIPMENT	ITEM NUMBER		4-62		4-63					43-						 		

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EQUIPMENT LIST (Gasification Plant)

BANKO PROJECT COAL CASIFICATION BOUIPMENT PROJECT TITLE

ø x 17,190 L 1546 T 4 1700 Bath : 277 t	3,800 H	: 153 t	: 15 t 18.3 2 0 1700	90 ¢ 1700	, 500	L 12 3 1800	Hydraulic Unit col Use	3	99 89 89 84 66 84 69 84 69 84 84 84 84 84 84 84 84 84 84 84 84 84	250 t 300 % 0 100 35 t 0 100	/75/45x2 KW			
ø x 17,190 L 1546 T Bath : 277 t	3,800 H 63 S	153	15 t 18.3 g	10 25	500	L 12 8	aulic Use		EA CO	4 t 200 8				-
ø x 17,190 L Bath : 277 t	3,800 H 63	153	15 t 18.3	ø 1.0	500	L 12	aulic Use		ω	t t				
ø x 17,190 L Bath : 277 t	3,800 H 63	153	15 t 18.3	ø 1.0	500	L 12	aulic Use	A	ω	t t				
ø x 17,190 L Bath : 277 t	3,800 H 63	153	15 t 18.3	ø 1.0	500	L 12	aulic Use	3	ω	t t				
ø x 17,190 Bath : 277	3,800 H	153	15		500	1	aulic Use	¥	B41 B44 B44					
7,100 Steel		Capacity	Capacity	Drill Hole :	Stroke : 1,	Mud Volume : 60	Accessory : Hydr Water and Glycol	Motor : 30 KW	Load : 33.3 Own Weight : 18.3 Slag : 15	Main Hook : 2 Auxiliary Hook :	Motor: 250x2/110/15/75/45x2			
Hor izontal Type	Steel Plate	ketractory Material Lining	Cast Steel Slag Pot	Pneumatic	urive Rotary Drill	Hydraulic	Mud Gun		Automotive Slag Dump	Overhead Traveling	9 5 5 7 9		-	
ഹ	e		ê	8		ę			61	74	:			
Gasifier	Ladle		Slag Pot	Slag Hole of		Muđ Gun			Slag Dump	Ladle Crane				· · · · ·
5-1	5-2		53	5-4		5-5			5-6	5-7				
	Gasifier	Gasifier 5 Horizon Type Ladle 6 Steel	Gasifier 5 Horizon Type 5 Steel Refrac Materi	Gasifier 5 Horizon Type Ladle 6 Steel Refrac Materi Lining Slag Pot 6 Cast S	Gasifier 5 Horizon Ladle 6 Steel Refrac Materi Slag Pot 6 Cast S Slag Hole of 6 Pneuma	5-1 Gasifier 5 5-2 Ladle 6 5-3 Slag Pot 6 5-4 Slag Hole of 6 Drill Machine 6	5-1 Gasifier 5 5-2 Ladle 6 5-3 Slag Pot 6 5-4 Slag Hole of 6 Drill Machine 6 5-5 Mud Gun 6	Gasifier 5 Ladle 6 Slag Pot 6 Slag Hole of 6 Drill Machine 6 Mud Gun 6	5-1Gasifier55-2Ladle65-3Slag Pot65-4Slag Hole of65-5Mud Gun6	5-1 Gasifier 5 5-2 Ladle 6 5-3 Slag Pot 6 5-4 Slag Hole of 6 5-5 Mud Gun 6 5-6 Slag Dump 2	5-1Gasifier65-2Ladle65-3Slag Pot65-4Slag Hole of65-5Mud Gun65-6Slag Dump25-7Ladle Crane1	5-1Gasifier65-2Ladle65-2Ladle65-3Slag Pot65-4Slag Hole of65-5Mud Gun65-6Slag Dump25-7Ladle Crane1	5-1 Gasifier 6 5-2 Ladle 6 5-3 Slag Pot 6 5-4 Slag Hole of 6 5-5 Mud Gun 6 5-6 Slag Dump 2 5-7 Ladle Crane 1	5-1 Gasifier 6 5-2 Ladle 6 5-3 Slag Pot 6 5-4 Slag Hole of 6 5-5 Mud Gun 6 5-6 Slag Dump 2 5-7 Ladle Crane 1

fication Plant)	WEIGHT (ton) DESIGN	EREC TEST OPN Kg/cm ² • C	0.85 \$ 12 1800	ature Content	le ling Water let) ling Water tlet	ve Exchanger		in		10 ⁷ Kcal/hr 3.7 % 0 1600	m ³ /min 12 % 0	0 mm Aq Temper		10 ⁷ Kcal/hr 3.7 % 0 1600	nin 20 +/20+		
	IGN		1800			. 1	8	<u></u>		1600	Ал- т	Тепре		160(8		<u>.</u>
	DES	PRESS Kg/cm ²	12				0			0	0			o	0		
	(uo)	OPN															
	IGHT (†	TEST															
	WE	EREC					25.8	נ/ מפר		7.					20	2	
EQUIPMENT LIST (Gasification Plant)		NOT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 ¢ x 13,500	Measuring Item: Steel Bath Temperature Steel Bath Carbon Content Slag Basicity	Inside Structure Center Tube : Cable Second Tube : Cooling Water (Inlet) Third Tube : Cooling Water (Outlet)	Accessory : Prove Exchanger	High Speed : 12 m/min	Low Speed : 3 m/min	Motor : 15 KW	Heating Capacity : 1.69 × 10 ⁷ Kcal/hr	Capacity : 1,500	Pressure Head : 800 mm	Motor : 400 KW	Thermal Capacity : 1.32 x 10 ⁷ Kcal/hr	High Speed : 20 m/min	Low Speed : 5 m/min	Motor : 7.5 KW
		9317	Threefold	2			Winch Type			Off-Gas Combustion	Single	Turbo-Blower		Off-Gas Combustion	Winch Type		
I EQUIP	, No	REQD	ę				24			4				4	မ		
BANKO PROJECT COAL GASIFICATION EQUIPMENT		901 A Vac	Sub-Lance				Main Lance			Furnace Heating-Up Burner	Furnace Heating_Un	Burner Blower		Scrap Melting Burner	Sub-Lance Flevetor		
PROJECT BAN TITLE COV	EQUIPMENT	NUMBER	5-8				6 - - - - 345			5-10	5-11			5-12	5-13		

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PROJECT BANKO PROJECT TITLE COAL GASIFICATION EQUIPMENT

EQUIPMENT LIST (Gasification Plant)

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	REMARKS																				
N	TEMP	0.	80	•		80 -	<u>ب</u>			1700.											ч
DESIGN	PRESS	Kg/cm ²	0	-		٥				छ				- <u></u>					:	 ······	
 G		OPN						<u> </u>				-						<u></u>		 <u></u>	
WEIGHT (ton)		TEST														 					
WEI		EREC	60 %			52.4 g			·	8 0 7					· · ·	 					·
	SPECIFICATION	-	Main Hook : 30 S	Auxiliary Hook : 15 %	Motor : 75/45/15/55 KW	4,500 ø x 1,400 H	Motor Base : 1.8m × 4.4m × 0.3m	Number, of Rotation : 2 rpm	Motor : 50 KW x 8P With Speed Reducer	Diesel Engine Drive (Electric Power Supply from Biulding)								· · · · · · · · · · · · · · · · · · ·			
	ТҮРЕ		Overhead	Crane		180° Rotary	51001			Movable Type Drill											
(N	REQD		N			1				7											
	SERVICE		Overhead	Travering Crane for	Lance	Ladle Turning	ม 1 1			Drill Machine for Tapping Hole						 					
EQUIPMENT	ITEM	NUMBER	5-14			5-15				51 - 16 - 16	-					 					
			L., ,			J			-	-346		· .	. 			 	christe anna			-	 -

PROJECT BANKO PROJECT TITLE CAS COOLING AND DEDUSTING EQUIPMENT

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EQUIPMENT LIST (Gasification Plant)

					در برمزه الالاست		•	****		- in Malauru							ná, ristoren en est		
SERVICENOTYPESPECIFICATIONMEIGHT (ton)DESIGNREQDRAMEREDTVPERECTONDESIGNMaste Heat6Ustr CholingCas Flow Rate:500 m ² 15004Maste Heat6Ustr CholingCas Femperature:150074Maste Heat6Ustr CholingCas Femperature:1500-> 610 · C5Maste Heat6Steel PlateVolume113,560 Nm ³ /hr150080Maste Heat6Steel PlateVolume113,560 Nm ³ /hr380Maste Heat6Steel PlateVolume113,560 Nm ³ /hr380Maste Heat6Steel PlateNotor15,0 m38Maste Heat6Steel PlateNotor15,0 m44Maste Heat6Steel PlateNotor113,560 Nm ³ /hr38Maste Heat6Steel PlateSteel Plate0.03 mg/hr54Maste Toun12Steel Plate0.03 mg/hr577Maste Punp12Steel PlateVolume777Maste Funp12Steel PlateVolume50 m77Maste Funp12Steel PlateMaste50 m77Maste Funp12Steel PlateMaste50 m77Maste Funp12Steel PlateMaste777Maste Funp<		REMARKS																	
SERVICE No TYPE SPECIFICATION WEIGHT (ton) PER Waste Reat 6 Water Cooling Gas Flow Rate: MELGE PER PER Waste Reat 6 Water Cooling Gas Flow Rate: 118,560 Nm ³ /hr PER PER Waste Reat 6 Water Cooling Gas Flow Rate: 118,560 Nm ³ /hr 150% PER PER Waste Reat 6 Steel Plate Volume 12 m ³ 35 g 8 8 Boiler 5 Steel Plate Volume 12 m ³ 35 g 8 8 8 Boiler Steel Plate Volume 12 m ³ 35 g 50% 8 8 Boiler Sturator & Caps Flow Rate: 50 m 6.6 g 8 6.6 g 8	NS	ana.	10	0011			300	300			700			80		80			
SERVICE No TYPE SPECIFICATION WEIGHT (ton React Waste Reat REQD TYPE SPECIFICATION WEIGHT (ton React Waste Reat 6 Wate Cooling Gas Flow Rate: 118,560 Nm ³ /hr 150% Waste Heat 6 Wate Cooling Gas Tenperature: 1500 °C -> 610 °C 35 % Maste Heat 6 Steel Plate Volume : 12 m ³ 35 % 50% Boiler Drum 500 °C -> 610 °C 3 % 50%	DESIC	DDTCC	Kg/cm ²	¥			80	S		-	4			0		2			
SERVICENo REQTYPESPECIFICATIONEXEMaste HeatREQWater CoolingGas Flow Rate:15,560 Nm ³ /hr15Waste Heat6Water CoolingGas Temperature:13,560 Nm ³ /hr15Maste Heat6Steel PlateVolume12,000 m ³ 35Soller6Steel PlateVolume12,000 m ³ 35Boiler Drum6Steel PlateVolume12,000 m ³ 35Boiler Drum7Caspecity260 t/hr3Boiler DrumPressureCaspecity260 t/hr3Boiler DrumPressureCaspecity260 t/hr3Boiler DrumNotor75 KW55ConlectorNotor75 KW55WasteSturator &Caspecity10,00 m ³ /hr5Waste6Sturator &Gas Flow Rate:0.03 mg/hm ³ 5.6Waste6Steel Plate4,600 ø x 4,200 H6.6Waste12Steel Plate10,00 ø x 4,200 H5.6Waste12Steel PlateCapacity250 t/hr2Water Pump12Steel PumpHead50 m2Water Pump12Stoel PumpHead50 m2Water Pump12Stoel PumpHead50 m2Water Pump12Stoel PumpHead50 m2Water Pump12Stoel PumpHead50 m2Mater Pump1	(uo		OPN																
SERVICENo REQTYPESPECIFICATIONEXEMaste HeatREQIster CoolingCas Flow Rate:118,560 Nm ³ /hr15Maste Heat6Water CoolingHeat Transfer Area:600 m ² 35Maste Heat6Steel PlateVolume12 m ³ 35Boiler Drum6Steel PlateVolume12 m ³ 35Boiler Drum24SingleCaspecity260 t/hr3Boiler Drum24SingleCaspecity260 mAnPumpVolute PumpHead50 m55Collector18 situator & Boiler DustCaspecity260 mAnMaste Heat6Sturator & Boiler DrumCapecity260 m3Waste24SingleCaspecity260 m3Maste6Sturator & Boiler DustCaspecity260 m3Waste6Sturator & Boiler Collector18,600 M x 4,200 H6.6Waste6Steel Plate4,600 Ø x 4,200 H6.6Waste12Steel PlateCapacity250 m2Waste12Steel PumpHead50 m22Waste12Steel PumpHead50 m22Waste12StableVolute Pump10 m50 m2Waste12StableNolure50 m22Waste12StableNolure50 m22<	CHT (t		TEST	•															
SERVICENo REQUTYPESPECIFICATIONWaste Heat6Vater CoolingGas Flow Rate: 118,560 Nm3/hrWaste Heat6Vater CoolingGas Flow Rate: 118,560 Nm3/hrBoiler6Vater CoolingGas Flow Rate: 118,560 Nm3/hrWaste Heat6Steel PlateVolume: 12 m3Waste Heat6Steel PlateVolume: 12 m3Boiler Drum24SingleCapacity: 260 t/hrBoiler Drum24SingleGas Flow Rate: 1800 · C -> 70 · CBoiler Drum75 KWMotor: 75 KWWet Type Dust6Sturator & 28 SingleGas Flow Rate: 10.03 mg/hm3/hrWaste Heat6Sturator & 28 Sturator & 2001 ute PumpGas Dust Content: 0.03 mg/hm3Waste6Sturator & 28 Sturator &Waste12Sturator & 28 Sturator & 28 Sturator & 28 Sturator &Waste12Sturator & 28 Sturator & 28 Sturator & 28 Sturator &Waste12Sturator & 28 Sturator & 28 Sturator &Waste12Sturator & 28 Sturator & 28 Sturator &Waste12Stude PumpWaste12Stude PumpWaste12Stude PumpWaste <td>MEI</td> <td></td> <td>EREC</td> <td>1503</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>203</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	MEI		EREC	1503			1				203								
SERVICE No SERVICE REQD Waste Heat 6 Boiler Builer Boiler Boiler Drum Boiler Drum 6 Collector 24 6 Waste Heat 6 Boiler Dust 6 Collector 6 Waste Type Dust 6 Waste Pump 12 9		SPECIFICATION		Gas Flow Rate: 118,560 Nm ³ /hr	Transfer Area : 600	Temperature: 1600 °C -> 610	: 12	: 260	: 50	: 75	Gas Flow Rate	Gas Temperature: 610 • C → 70	Gas Dust Content: 0.03 mg/Nm ³	øx4,200	: 70	: 250	: 50	: 50	
SERVICE REQD Maste Heat 6 Boiler Brum 6 Boiler Drum 6 Pump 24 Collector 24 Collector 6 Waste Heat 6 Boiler Drum 6 Collector 6 Waste 12 Waste 7 Waste 7		TYPE		Water Cooling	Kembrane wall		Steel Plate Pressure Vessel	Single Suction	Volute Pump		Saturator & Pire elit worker	ATTIC STTC MOSIGE		Steel Plate	Type	Single Suction	Volute Pump		
SERVICE SERVICE Boiler Boiler Boiler Dr Boiler Dr Boiler Dr Circulati Pump Waste Hea Waste Hea Wet Type Collector Waste Pum Water Pum	CN.	REOD		G			ဖ				9			9					
		SERVICE		Waste Heat Boiler			Waste Heat Boiler Drum	Boiler Circulating	Pump		Wet Type Dust Collector			Waste Water Park	4115 4 400 5	Waste Weter Dumn	24		
	EQUIPMENT	ITEM	NABRUN																

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BANKO PROJECT GAS COOLING AND DEDUSTING EQUIPMENT

PROJECT TITLE

EQUIPMENT LIST (Gasification Plant)

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	REMARKS										
N	ТЕМР	5.	200				1200		100		
DESIGN	PRESS	Kg/cm ²	4		- <u></u>		4		Ť		
(u		NAO									
WEIGHT (ton)		TEST									
WEI		EREC	7.6 🐨				33.1 8		2.6 👻		
	SPECIFICATION		Inlet Diameter : 1,000 Ø	Drive : Air Cylinder	Accessory : Valve Seat Cleaner	Temperature: 100 °C	Diameter : 1,000 ø	Accessory : Flea Burner	Inlet Diameter : 1,000 Ø	Accessory : Double Action Air Cylinder	
	TYPE		Closed	Valve Valve			Steel Plate	stack Supported by Building	Butterfly	99-1-02-	
CN N	REOD		9				ون		12		
	SERVICE		Three Way	3AT8A			Flare Stack		Gas Stop	3AT#A	
EQUIPMENT	Mali	NUMBER	6-7				6-8		6-9		•

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PROJECT BANKO PROJECT TITLE WATER TREATMENT EQUIPMENT

EQUIPMENT LIST (Gasification Plant)

REMARKS	TEMP	80				÷	50		,	50			50			10			Cœ
18-	PRESS ₂ TH Kg/cm ²	.0					0			ŝ		;	35			ŝ			c
(ton)	OPN	-																	
WEIGHT (t	TEST																		
EW.	EREC						B 2			0.5 T			9.0 g			3.5 8			
SPECIFICATION		21.28m ø х 3.05m Н	Quantity : 1,050 $m^3$	Accessory: Thickener Rake Motor 7.5/1.5 KW	Adjusting Water Tank: 23.68m ø x 1.2m W x 2.83m	Volume : 240 m ³	4,250 ¢ x 5,300 H	Volume : 75 m ³	Accessory : Agitator Motor 22 KW	Capacity : 1.25 t/hr	Head : 20 m	Motor : 0.4 KW	Capacity : 14 t/hr	Неаd : 310 m	Motor : 75 KW	Capacity : 480 t/hr	Неаd : 40 ш	Motor : 111 KW	3d x 1.5H Volume · 13 5 m ³
TYPE		Concrete	JAVAYOTIT				Steel Plate	Type		Diaphragm Dimr	1 		Piston Pump			Volute Pump			Concrete Tank
No	REQD	4					~			N			ထ္			ø			8
SERVICE		Thickener					Chemical Feed	41101		Chemical Feed			Thickener			Dust	Water Pump		Collective Water Tank
EQUIPMENT ITEM	NUMBER	7-1	-				7-2			7-3			4 - 7			7-5			7-6

PROJECT BANKO PROJECT TITLE GAS HOLDER EQUIPMENT

EQUIPMENT LIST (Gasification Plant)

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	REMARKS													_			:			
z	TEMP	5.	80			80			. 80.			80	• • •					-		
DESIGN	PRESS	Kg/cm ²	20			20			20			20	· · ·	5			-		·.	
, G		NGO		-																
WEIGHT (ton)		TEST	-										-							
WEI		EREC	1.0 \$	<u>.</u>		810 F			2.0 \$			2.0 8						· .		
	SPECIFICATION		Inlet Diameter : 450 Ø	Gas Pressure : 39 kg/cm ² G	Gas Temperature : 32 °C	Shape : 15,400 ø Globular Shape	Volume : 1,905 m ³	Gas Pressure : 39 kg/cm ² G	Inlet Diameter : 400 ø	Gas Pressure : 39 kg/cm ² G -> 10 kg/cm ² G	Gas Temperature : 32 °C	Inlet Diameter : 400 Ø	Gas Pressure : 10 kg/cm ² G → 2.4 kg/cm ² G	Gas Temperature : 32 °C		· · · · · · · · · · · · · · · · · · ·				
	TYPE		Closed	Type		Steel Plate Soherical			Pressure	ATRA SOLDER		Pressure	avia source						-	
, Z	REOD		9			ę			<b>-</b>			2	-							
	SERVICE		Holder Inlet	vaive		Gas Holder	<del></del>		Holder Outlet			Holder Outlet								
EQUIPMENT	ITEM	NUMBER	8-1		-	8-2			83			8-4	· · · ·				-			

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<u>PROJECT BANKO PROJECT</u> TITLE AUXILIARY EQUIPMENT

EQUIPMENT LIST (Gasification Plant)

: 35,000 m ³ /mi	pe Capacity : 35,000 m ³ /min 1160 Accessory : Discharge Feeder Motor : 2.2 KW x 56 Set	e Capacity : 35,000 m ³ /min 1160 Accessory : Discharge Feeder	Pressure Type Capacity : 35,000 m ³ /min 1160 Bag Filter Accessory : Discharge Feeder Motor : 2.2 KW x 56 Set
: Discharge Feeder 2.2 KW × 56 Set : 5,500 m ³ /min Head : 1,000 mm Aq	Accessory : Discharge Motor : 2.2 KW x 56 Se	Accessory : Discharge	sctor Bag Filter Accessory : Discharge Motor : 2.2 KW x 56 Se
: 5,500 m ³ /min Head : 1,000 mm Aq		2.2 KW × 56 Se	   
Head : 1,000 mm	Capacity : 5,500 m ³ /min	Capacity : 5,500 m ³ /min	7 Double Capacity : 5,500 m ³ /min
	rbo Type Pressure Head : 1,000 mm Aq	ype Pressure Head : 1,000 mm	Turbo Type Pressure Head : 1,000 mm
s Temperature : 40 °C	: 40 •	Temperature : 40 *	Temperature : 40 *
tor : 1,833 KW	1,833	: 1,833	: 1,833
4.9	ion 4.9		Off-Cas Combustion 4.9
mension: 80 ^W x 3400 ^L X 8300 ^H 33	X 8300 ^H	00 ^L X 8300 ^H	Dimension: 7280 ^W x 3400 ^L X 8300 ^H
ating Capacity of Burner: 43 X 10 ⁵ Kcal/hr	o f	Capacity of 0 ⁵ Kcal/hr	Capacity of 0 ⁵ Kcal/hr
pacity: 186 m ³ /mim 1,9%	Capacity: 186 m ³ /mim	Capacity: 186 m ³ /mim	2 Capacity: 186 m ³ /mim
essure Head: 650mmAq	Pressure Head:	Pressure Head:	Turbo-Blower Pressure Head:
tor: 37KW	Motor: 37KW		
mension: ø 1900 X 15m 25%	Dimension: Ø 1900 X 15m	Dimension: Ø 1900 X 15m	2 Dolly Lifting Dimension: ø 1900 X 15m Method
1	Dolly for Lifting approx 14m	Dolly for Lifting approx. 14m	method Dolly for Lifting
approx. 14m			approx. 14m
ror Litting	ror Lifting approx. 14m	ror Lifting approx. 14m	DOLLY TOT LOLAND
for Lifting	Dolly for Lifting approx 14m	Dolly for Lifting approx. 14m	Method Dolly for Lifting
DO LI C C B T C C B T C C B T C C B T C C B T C C C B T C C C B T C C C B T C C C C	uble ction rbo Type ff-Gas mbustion sction rbo-Blower ithod		

PROJECT BANKO PROJECT TITLE WATER SOFTENING EQUIPMENT

EQUIPMENT LIST (Gasification Plant)

	REMARKS			1								For Lance	& sub- Lance		For	Heating up Melt-	ing Burner		
N	T DMD	10 1 1	50			50		50				50			50				
DESIGN	PRESS	Kg/cm ²	ŝ			Ð		0				ß			ى ى				
( u		NGO	55 3			58 %													
WEIGHT (ton)		TEST																	
WEI		EREC	15.3 8			18 \$		6.5 æ				89) L-			1.3 8				
	SPECIFICATION		3,400 ¢ x 5,000 H	Volume : 38 m ³	Pump: Capacity 67.5 t/hr Head 50 m Number 1 Set	3,400 ø x 5,000 H	Vclume : 38 m ³	7,600 ¢ × 6,700 H	Cooling Capacity : 3.9 x 10 ⁶ Kcal/hr	Standard Flow Rate : 13 $m^3/min$	Pipe Diameter : 300 A	Capacity : 625 t/hr	Неад : 50m	Motor : 110 KW	Capacity : 210 t/hr	Head : 50m	Motor : 40 KW	-	
	TYPE		Vertical and	Cylindrical Type		Vertical and	Cylindrical Type	Cooling Tower				Single	Suction Volute Pump		Single	Suction Volute Pumo			
C N	REQD		1			1		3				n	-		ო				
	SERVICE		Industrial Water viltor	ADTTI JATTI	-	Water	Jauan Ioc	Cooling Tower				Cooling Water	Pump 1		Cooling Water	Circuisting Pump 2			
EQUIPMENT	ITEM	NUMBEK	10-1			10-2		10-3	· · · · ·			10-4			10-5				

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## ATTACHMENT 15-2

1. Computer Printout of Financial Analysis - Base Case

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## 1. Computer Printout of Financial Analysis - Base Case

(88/12/22) PAGE 1

** INDONESIA BANKD COAL FROJECT

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ũ	CASE BASE										·
	1,995, 5,996 1,997, 1,997, 1,997, 1,997, 1,997, 1,997, 1,997, 1,997, 1,997, 1,997, 1,997, 1,997, 1,997, 1,997, 1,997, 1,997,	1997	1998	1998 1999 2000	2000	2001	2001 2002	2002	2004	2005	2006
* P / L * * METHANOL PRICE (\$/TON)	175,00	175.00	175.00	175.00	175-00	175,00	175.00	175.00	175.00	175.00	175,00
1ST VOLUME (1000T)	0	0	0	0	350	450	200	200	500	2003	005
ZND VOLUME (1000T)	0	0	0	¢	0	0	0	350	450	000 000	200
		0	0	0	0	0	0	0	0	330	450
REVENUE		0	0	0	61,250	78,750	87,500	148,750	166,250	236,250	253,750
VARIABLE COST	0	0	0	0	13,740	17,666.	19,629	33,369	37,295	52,998	56.924
RAW MATERIALS	0	0	¢	0	12,788	16,442	18,269	31,057	34,711	49,326	52,980
(COAL)	× 6) × 0) ×		0	>(0	12,128)(	15,594)(	17.	29,455)(	32,920)(	46,78150	50,247)
(CACO3)	0.0		šõ	) (o	) (272) (	279)(		527)(	2837	836) <	(868)
(SCRAF)		õ	0)(0	šõ	443)(	570) (	633) (	1,076)(	1,202)(	1,709)(	1,835)
CATALYST/CHENICALS	0	0	<b>o</b>	•	2006	1,224	1,360	2,312	N, 584	3,672	3,944
FIXED COST	2,621	3,046	7,642	14,342	48,817	63,547	58,964	86,274	82,290	101,738	93,448
DEPK & AMORT	•	0	0	0	39,863	36,993	34,410	55,872	51,888	66,724	62,034
HUNGNELLIGH	•	0	0	0	5,899	0,899	1, 899	9,277	9,277	11,917	41,917
	0	•	0	0	3, 933	3,933	3, 933	6,185	6,185	7,944	7,944
	•	0	•	0	9,361	9,561	9,561	9,561	9,561	9,561	9,561
ADMINISINALIVE COS	2, 390	2,390	4,781	4,781	0	0 : I	•	0			
TERUUNNEL L DTAL V	192	010		4,000 1001	100.4	101	U, 102	2020		240.0	1,992
(JAPANESE)	) (O		1,300)(	3 (000 '8	8,00014	1, 600) ( 1, 600) (	3,600)(	3, 600) (	3,6003	3,600)(	
TOTAL EXPENSE	2,621	3,066	7,642	i4,342	82,557	81,213	78, 593	119,643	119,585	154,736	150,372
OPE. PROFIT	-2,621	-3,066	-7,642	-14,342	-21,307	-2,463	8, 907	29,407	46,665	81,514	103,378
INTEREST PAID	1,550	5,350	14,439	25,320	32,748	40,134	47,531	52, 983	52,119	45,658	34,333
SHORT INT.	1, 368 182	4,747	13,008 1,431	22, 161 3, 158	25,956 6,792	29,263 10,872	34,031 13,499	37,263 14,821	37,893 14,226	35,393 10,264	30,746 3,587
I.D.C.	1,368	4,747	13,008	22,161	1,962	7,409	14,318	5,637	9,767	0	0
FROFIT BEF. TAX TAX	-2,803 0	-3, 669	0 E20'6-	-17,500	-52,094	-35, 189	-24,306 0	-17,340	4,314 0	35,856 0	69,044 0
NET FROFIT	-2,803	-3,669	-9,073	-17,500	-52,094	-35,189	-24,306	-17,340	4,314	35,856	69,044
RETAINED EARNING	-2,803	-6,473	-10,840	-33,045	-85,139	-120,328	-144,635	-141,975	-157,661	-121,805	-52,761
				421212121212121212121212121212121212121		5月11日第七月9月11日	가 때 면 전 면 다 다 다 다 다 다 다	12 21 21 21 21 21 21 21 21 21 21 21 21 2		12月1日月日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日	

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CASE BASE

69,044 62,034 541,133 10,113 42,683 2006  $\circ$ 121,079 131,079 15,048 508,976 000000 55, 189 55,042 102,726 594,426 10,113 51,425 35,856 66,724 0 000 2005 0 157,769 0 C 157,769 655,963 55,197 40,374)( 3,371)( 1,685)( 9,767)( 9,767)( 42,793 4,314 51,888 13,799 41,398 41,398 0 652,408 10,113 60,166 000 2004 214,125 214,125 722,687 5,637)( 42,793 111,874 96,568 90,931)( õ 88 -17,340 55,872 24,142 72,426 116,135 0 657,039 6,742 55,597 000 NOON 251,235 251,235 719,378 105,203)( 3,371)( 1,685)( 1,685)( 14,318)( 26,168) 75,809 -24,306 34,410 31,144 93,432 11,874 615,098 6,742 56,843 2002 000 00 246,554 246,554 678, 682 26, 1689) ( 26, 1689) ( 71, 1485 0 0 118,444)( -35,189 36,993 31,463 94,389 95,809 539, 809 539, 809 3, 371 45, 336 2001 125,853 223,466 223,466 588, 516 70,834 68,872)( 1,962)( 26,168 33,045 888 -52,094 39,863 17,708 53,125 71,445 453,862 3,371 42,423 2000 000 00 130,047 130,047 499,656 108,587 79,383)( 3,371)( 1,685)( 1,987)( 22,161)( 27,147 81,441 33,045 420,357 3,371 44,957 0 00 00 1999 0 10,040 124,133 -17,500 124, 138 468,685 233,718 220,710)( 0) (0 0) (0 0) (0 13,008) (1 58,430 175,289 15,545 340,974 00000 4 9 1998 0 £20'6--00 240,191 19,124 360,078 240,191 1111111111 75,216 70,469)( 888 4,747)( 18,804 56,412 6,473 2, 803 2 000 00 120,264 o 1997 78,020 6,116 126,380 78,020 -3,669 1, 480000 51,163 49,795)( 12, 791 32, 372 2, 803 -2,803 49, 795 0 1,368 51,163 51,163 0 1996 51,163 CASH-OUT TOTAL INVESTMENT * C / F * CASH-IN PROFIT BEF TAX DEP. & AMORT. EQUITY (WDRXING CAP.) (START-UP) (TRAINING) (I.D.C.) LONG REPAY SHORT REPAY EXCESS CASH TAX PAID DIVIDEND RECEIVABLE ASSET WORKING CAPITAL DEFERRED ASSET TUTAL ASSET * ທ \ (CAPEX) L.T.D. S.T.D. TOTAL TOTAL CAPEX ×в、 CASH

BREAK EVEN FRICE

235,428 -52,761

487, 151 55, 159 235, 428 -121, 805

542,194 542,194 102,726 235,428 -157,661

543,589 116,135 221,629 -161,975

513,956 111,874 197,487 -144,635

446,692 95,809 166,343 --120,328

378,471 71,445 134,880 -85,139

351,514 33,045 117,171 -33,045

270,073 15,545 90,024 -15,545

94, 785 6, 473 34, 595 16, 473

38,372 2,803 12,791

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PAYABLES

L.T.D. S.T.D. EQUITY

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608,976

655,963

722,687

719,378

678,682

588,516

499,656

468,685

基度存在自然分别和当时将与你们引起这些世界有利的自我不能。

360,098

126,380

51,163

UA I U

TOTAL LIABIL &

RETAINED EARNING

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** INDONESIA BANKO COAL FROJECT

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J	CASE EASE										
	2007 200	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
				-ton the state when the state of the state when the state when							
PRICE (*/TON)	175.00	175,00	175.00	175,00	175.00	175.00	175,00	175 00	175.00	175,00	175,00
IST VOLUME (1000T)	500	500	000	200	500	500	00 100 100	00n	500	200	200
	009	500	500	500	200	500	500	005	500	200	200
3RD VOLUME (1000T)	005	500	000	200	200	200	000	200	E00	500	200
REVENUE	262,500	262,500	262,500	262,500	262,500	262,500	262,500	262,500	262,500	262,500	262,500
VARIABLE COST	58,887	58,887	58,637	58,887	56,887	58,887	58,887	58, 887	58,837	58,887	58,887
RAW MATERIALS	54,807	54,807	54,807	54,807	54,807	54,807	54,807	54,807	54,807	54,807	54,807
(CDAL)	( 51,979)(		51,979) (	51,979)(	51,979)(	51,979)(	51,979)(	51,979)(	51,979)(	51,979)(	51,979)
(CACO3)	)(626)(		929)(	) ( 626	626	229)	>(626	929)(	929)(	929) (	929)
(SCRAF)	(1,898)(	1,878)(	1,893)(	1,898)(	1,898)(	1,898)(	1,898)(	1,898)(	1,898)(	1,898)(	1,898)
CATALYST/CHEHICALS	4,080	4,080	4,080	4,080	4,080	4,080	4 080	4,080	4,080	4,080	4,080
FIXED COST	89.228	BS . 430	82,011	74.439	74.670	69.178	54 EAR	62.539	58,853	57.218	55.745
DEFR & AMORT	57,814	54,016	50,597	43,025	40,256	37,764	33, 134	31,115	27, 439	25,804	24,332
MAINTENANCE	11,917	11,917	11,917	11,917	11,917	11.917	11.917	11.917	11,917	11,917	11.917
INSURANCE	7,944	7,944	7,944	7,944	7,944	7,944	7,944	7,944	7,944	7,944	7,944
	9,561	9,561	9,561	9,561	9,561	9,561	9,561	9,561	9,561	9,561	9,561
ADMINISTRATIVE COS		0	0	0	0		0	0	0	0	0
TEROURNEL	7,44	2,472	7.7.4	1, 772	7774	1, 772	1,992	1, 998	1 VY2	244	1, 992
C LUCAL ?	)(265,4	1,992.0	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	)(244.1	1,992)	1,992)(5	1,992)(	1,9925(	1,992)(	1,992)(	1,992)
TOTAL EXPENSE	148,115	144,316	140,898	133,326	130,556	128,064	123,435	121,416	117,740	116,105	114,633
OPE. PROFIT	114,385	118,184	121,602	129,174	131,944	134,436	139,065	141,084	144,760	146,395	147,867
INTEREST PAID	25,954	21.161	17.439	14, 725	11.948	9.795	B.246	7.238	6 710	A. 183	5, 454
LONG INT.	25, 954	21,161	17,439	14 725	11,948	564 6	8,266	7,238	6 710	6.183	1979 1979 1979
SHORT INT.	0	jo I	0	0	0	0	0	0	0	0	
(		. (	ſ				,		•		
4.4.6.		0	<b>o</b> .	0	<b>o</b> .	o'	0	0	<b>o</b> '	<b>o</b> ]	0
							tered ande and block and and and the first and a				
FROFIT REF. TAX TAX	88, 432	97,022	104,163	114,450 40,057	119,995	124,640	130,799 45,780	133,846	138,050	140,212	142,211
NET PROFIT	60,209	63,065	67,706	74,392	77,997	81,016	85,020	87,000	89, 732	91,138	92,437
RETAINED EARNING	7,447	70,511	138,217	212,610	290,607	371,623	456,643	543, 643	633,375	724,513	816,950
	(또) 파티바 또 (바이가 또) 바이가 한 바이가 하는 바이가 하는 것이 같이 봐.	7 197 199 199 199 199 199 199 199 199 19		28500120014	사내는 것은 것을 수 있는 것을 가지 않는 것을 가지 않는 것을 다 같이 않는 것을 다 같이 없다. 것을 다 가지 않는 것을 다 같이 않는 것을 다 가지 않는 것을 다 같이 않는 것을 다 않는 것을 다 않는 것을 다 같이 않는 것을 다 않는 것을 다 않는 것을 다 않는 것을 다 않는 않는 것을 다 않는 것을 다. 것을 다 않는 것을	에너나 바라니 C 메일러	그 19 - 20 위 지 수 위 전 생각				的非正则的有限情况

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(#000#:TINU) ** INDONESIA BANKO COAL PROJECT

CASE BASE

	2007		2009	2010	2011	2012	2013	2014	2015	2016	2017
* C \ F * CASH-IN BEF TAX PROFIT BEF TAX DEP. & AMORT. EQUITY AMORT. L.T.D. S.T.D.	89,432 97,022 57,814 54,016 0 0 0	1	104,153 50,097 00	114,450 43,025 0	119, 995 40, 256 0	124,640 37,764 0	104,163 114,450 119,975 124,640 130,799 133,846 138,050 50,597 43,025 40,256 37,764 33,134 31,115 27,439 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	133, 846 31, 115 0	138,050 27,439 0	140, 112 25, 804 .0	142,211 24,332 0
TOTAL.	146,246	151,038	154,760	157,475	160,251	162,404	163,933	164,962	165,489	166,016	166,543
CASH-OUT TOTAL INVESTMENT (CODEV)		0	0		unde produ danaga valit i sigan yanga turan n			30	0	0	08
CHURKING CAP. )			ŝõ		ŝõ	ŝõ	<i></i>				
(START-UP)		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							ôĉ		•
(I.D.C.)											
LONG REPAY	60,842	60,84	34,674	37,16	37,16	22,75	22,79	10,545	10,545	10,5/	10,845
SHUKI KEYAY Fkitas taal	57 1 70	010		040.08	0 000	0 40 V 40		0 107.570	106.474	06.397	06, 224
TAX PAID	28,224	33,959	36,457	40,057	41,978	41, 614	45, 780	46,846	48,317	49,074	46,774
DIVIDEND	0	0	0	0	0	0	0	0	0	0	٥
TOTAL	146,246 151,038	£51,038	154,760	157,475	154,750 157,475 160,251 162,404 163,933	162,404	163,933	164,962 165,489		166,016 166,543	166,543
* O / 山 *			:								**
CASH	72, 227	1,28,445	212,094	292,343	373, 428	469,413	564,772	672,342	778,968	885,365	991,589
RECEIVABLE ASSET DAFFY	492.044	002444	0	0 244 454	0 220	0	045.250	0 275 095	0 208,457	0 582.853	158.521
WORKING CAFITAL DEFERRED ASSET	10,113	25,199	16,457	10, 113 12, 214 12, 214	10,113	10,113	10,113 1,859	10,113	10,113	10,113	113 113 113
TOTAL ASSET	608, 342	610,564	643,596	680,820	721,450	779,871	842,096	918,551	997,739 1	1,078,331 1,160,223	, 160, 223
FAYABLES L.T.D.	0 365,467	0 304, 624	026, 950 0	232, 782 232, 782	195,615	172,820	0 150,026	139,480	0 128,935	118,390	0 107,845
S.T.D. EQUITY RETAINED EARNING	0 235,428 7,447	0 235,428 70,511	235,428 138,217	0 235,428 212,610	0 235, 428 290, 607	235,428 371,623	0 235,428 456,643	235, 428 543, 643	0 235,428 633,375	0 235,428 724,513	0 235,428 816,950
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** INDONESIA BANKO COAL FROJECT

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INDONESIA BANKO COAL FROJECT

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** INDONESIA BANKO COAL PROJECT

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** INDONESIA BANKO COAL FROJECT

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A INTEREST (1)DEPR. & AMORT. 57,814 54,0 15,060 12,416)( 2,476)( 168)( 0)( 0)( 13,954 11,841)( 1,944)( 1,944)( 1,841)( 1,841)( 1,841)( 0)( 20,762 13,726)( 6,669)( 0)( 168)( 168)( 199)( 8,038 4,129)( 2,218)( 1,691)( 2007 25,934 ~~~~ ~~~ PHASE II (FACILITIES) (EUKLD.A LANDS) (WORKING CAP.) (START-UP EXP) (TRAINING) PHASE III (FACILITIES) (EUILD.& LANDS) (UDTKING CAP.) (START-UP EXP) (TRAINING) PHASE I FACILITIES) (BUILD.A LANDS) (BURKING CAP.) (START-UP EXF) (TRAINING) (2) INTEREST PAID LLONG INT. FHASE I (PLANT 40%) (INFRA) (INFRA) FHASE II (FLANT 40%) (INFRA) FHASE III (FLANT 40%) I.D.C. (PHASE I) (PHASE II) (PHASE II)

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(INFRA)
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** INDONESIA BANKO COAL PROJECT	BANKO	COAL PROC	IECT	(#0005: 1.INI))	^.÷					FAGE	11 (38)	(88/12/22)
	CASE	BASE										
		2003 2008	2008	2009	2040	2011	2012	2013	2014	2015	2016	2017
* (C/F) DEBT , REPAY	X & Xe	& INVESTMENT	*					1 20 Julian (*) (20 20 <b>40</b> 20 10 40 at		**** *** 2*** *** *** *** ***		
L.T.D. TOTAL		0	0	0	0	0	0	0	0	0	0	0
PHASE I		0	0	•	0	0	0	0	0	0	0	0
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(FLANT 40%)	~	0) (0	0) (0)	0,0	) ( o	0)(0	0	0.0	0	010	0	ô
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FHASE III		0	0	0	0	0	0	0	0	•	0	0
(FLANT 60%)	v	0)	0)(0	) (o	0)(0	2(0	0)(0)	0)(0	čô	><0	šõ	6
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120200		0	0	•	0	0	0	0	0	0	o	0
TOTAL INVESTMENT		0	0	0	0 Q	0	0	0	0	0	0	0
FHASE I		0	0	0	0	0	0	0	0	0	0	0
(FACILITIES)	v	0,0	0,0	0.0	) (o	0)(0	0)(0	0)(0	0	0,00	) ( O	0
(BUILD & LANDS)	~	) (o	3(0	) (o	0)(0	0)(0	0)(0	0,00	0	v ío	õ	ô
CUDRKING CAFITAL	~	0) (0	> < 0 -	) (0	) (0	0)(0	0)(0	, 0	õ	×0	) (o	ô
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CTRAINING >	~	0.00	0	0)(0	0)(0	0)(0	0	010	ŝ	000	õ	6
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12 (88/12/22)

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** INDONESIA BANKO COAL PROJECT

CASE BASE

(UNIT: 10004)

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DEBT (LONG) (FHASE I) (FHASE II) (FHASE II) (79240) DUGU) PAGE 13 (88/12/22)

** INDONESIA BANKO COAL FROJECT

(UNIT:1000\$)

CASE BASE

2018 2019 DEPR. & INTEREST *
10,976 10,545 ( A.307)( 3,877)(
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6,372 5,982
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(UNIT:1000\$) ** INDONESIA BANKO COAL PROJECT

÷ CASE BASE

	2018	2019	2020	2021	2022	2023	2024	TOTAL
* (C/F ) DEBT , REPAY	& INVESTMEN	L *				11 80 JU 40 BY WI 40 AT 16 AT		
L.T.D. TOTAL	0	0	•	0	0	0	0	317,329
FHASE I	0	0	0	0	0	0		351, 514
(FLANT 60%)	)(0)	0)(0	) (o	čõ	0)(0	0,0		141,309)
(FLANT 40%)	× 0) <	0	0	¥0	0)(0	0		94,205)
(INFRA)	× 0 ×	20	0,0	) (o	)(0	0,0		116,000)
II HOULA	0	0	0	0	0	0		199,498
(FLANT 60%)	><0	0)(0)	0) (0)	× 00	0)(0	0) (0	0	89, 7743
(FLANT 40%)	2 CO	0)(0)	0	)(0	0)(0	0) (0		5,849)
(INFRA)	000	0)(0	0)(0	2.0	0)(0)	0) (0		49,874)
FHASE III	0	0	•	0	0	•		155,273
(PLANT 60%)	<pre></pre>	0)(0	0	)(0	0	) (o	~	66,146>
(FLANT 40%)	× 0) <	0)(0)	õ	2(0)	0)(0	5 0	0	44,098)
(INFRA)	>(0)	0)(0	õ	200	0)(0	šõ	~	45,029)
ワンクジキリ カリベレ	0	0	0	0	0	0		611,045
TOTAL INVESTMENT	0	ø	٥	0	•	•	0	941,713
FHASE I	0	0	<b>e</b>	0	0	0		427,400
(FACILITIES)	> 0) (0) (1)	0)(0	õ	0)(0	0)(0	ŝ		286,983)
(BUILD.& LANDS)	000	)(0	) (O	> (o	2 (0	) (Q.	~~~	133,374)
CHORKING CAPITAL	)(0)	0)(0	×(0	0)(0	0)(0	) (o		3,371)
(START-UP'EXP.)		)(o	0)(0	¥(0	) (0	õ		1,685)
( UNINING)	000	) (0	×0	><0	00	0		1,987)
FHASE II	•	0	0	0	0	0		243,813
(FACILITIES)	><0 >><	) (0	0 0	0	0	õ		189,242)
(BUILD & LANDS)		0	)(0	0)(0	0)(0	) (0	~~~	49,515)
WORKING CAPITAL	x	0)(0)	) (0	0	0.0	ŝ		3,371)
START-UP EXP. >	><0	0)(0	0) (0)	0)(0	) (0	0) (0		1,685)
( DVININUL)		0.0	v Q	0)(0	0	2 (0		ô
FHASE III	0	¢	0	0	0	0	0	190,123
(FACILITIES)	000	0)(0	0)(0	0)(0	šõ	õ	0)(0	146,189)
(BUILD & LANDS)	>(0)	0)(0	) ()	C ô	000	õ	č	38,878)
CHURKING CAPITAL	v 00 v	0	0)(0	0	000	0)(0	20	3,371)
(START-UP EXP.)	v 0) (	0	) (o	510	)(0.	0)(0	õ	1,685)
C TRAINING >	500	0)(0	0	0)(0)	0)(0	0) (0	2(0	ô
IDC	0	0	0	0	0	0	0	80,377
(FHASE I)		šõ	šõ	)(0)	0	ŝ	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	41,285)
(PHASE II)	C 0)	) (o	0)(0	0)(0	) (0	č0	0)(0	22,184)
(FHASE III)	50	õ	20	čõ	šõ	šõ	300	16,908)
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** INDONESIA BANKO COAL FROJECT

CAGE BASE

10,545 1,283,301 5,800 345,714 0)( 141,309) 0)( 94,206) 2,800)( 110,200) 2,494 1110,200 0)( 59,849) 2,494)( 37,406) 2,251 139,513 66,146) 44,098) 29,269) 611,045 õ 34,029 5,800) 12,469) 15,760) 0) 6 2,251) 2024 0 10, 545 5, 800 5, 800 1, 494 2, 494 2, 494 2023 Mariana 2,494)( 2,251 66 õ 2,251)( 44,574 11,600)( ô 0 14,962) 西ち, 119 17, 400) ( 2022 7,456) 2,494) 2,251 0)( 2,251)( 0 נהו הנה אדר של כאון עם ולו לעור 65,664 23,200) 19,950) 2021 76,209 29,000)( 22,443)( 24,766)( 0)( 2,251.)( 2020 0 2,494) ( 2,251 0) ( 0) ( 0) ( 0) ( 86,755 34,800)( 24,937)( 27,018)( 0)( 2,251)( 5,800)< 2,494 88 10,845 6,800 66 2019 THE REAL PROPERTY AND 2,251)( 97,300 40,600)( 27,431)( 88 2018 LCNG REFAY FHASE I (FLANT 40%) (INFRA) (INFRA) FHASE II (FLANT 40%) (FLANT 40%) (FLANT 40%) (FLANT 40%) (INFRA) (INFRA DEBT (LONG) (FHASE I) (PHASE II) (FHASE III)

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38/12/22 CASE BASE

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## ATTACHMENT 16-1

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1. Computer Printout of Economic Analysis - Base Case

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## 1. Computer Printout of Economic Analysis - Base Case

Annual Investment ** base case **

PHASE	total	1996	1997	1998	1999	2000	2001	2002	2003
Phase 1 Investment & Equipment 3	377202	44842	56241	200967	65152				
Working Capital	3272				3272	0	c	¢	C
Start-Up Reserve Expense	1685				1685	0	0	0	ò
Training	300				300	-0	0	C	c
<u> </u>	382459	44842	66241	200967	70409	c			
Phase 2 Investment & Equipment	218028	0	0	0	0	64738	111007	42283	
Working Capital					0	0	0	3272	0
	1685				0	0	0	1685	0
Training	300				0	0	0	300	о
ſrotal	223285	0	0	0	0	64738	111007	47540	0
Phase 3 Unvestment & Equipment	168926							50536	85210
Working Capital	3272				0	0	0	0	0
Start-Up Reserve Expense	1685				0	0	0	0	0
					0	0	0	0	0
Total	174183	0	0	0	0	0	0	50536	85210
Total  Investment & Equipment	764156	44842	66241	200967	65152	64738	111007	92819	85210
		0	0	0	3272	0	0	3272	o
Start-Up Reserve Expense	5055	0	0	0	1685	0	o	1685	0
Training	006	0	0	0	300	0 /	0	300	o
Total	779927	44842	66241	200967	70409	64738	1110071	98076	85210

Annual Investment ** base case **

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PHASE	2004	2005	2006	2007 :	2008 :	2009 :	2010	2011	2012
Phase 1 linvestment & Equipment									
Working Capital	0	0	0	•	0	0	0	0	0
Start-Up Reserve Expense	0	0	0	0	0	0	0	0	0
:	0	c	•	0	: 0	 0	0	. 0	0
Total	0	0	0	: 0	 0	 0	0	•	0
Phase 2 Investment & Equipment									
Working Capital	0	0	0	0	0	0	0	0	0
Start-Up Reserve Expense	0	0	0	0	0	0	0	0	0
Training	0	0	0	•	0	0	0	0	О
Total	0	0	0	: 0	 o	0	0	0	0
Phase 3 Investment & Equipment	33180								
Working Capital	3272	0	0	0	0	0	0	0	0
Start-Up Reserve Expense	1685	0	0	0	0	0	0	0	ç
Training	300 1	0	0	: 0	: 0	 0	0	0	0
Total	38437	0	0		 0	0	0	0	0
Total Unvestment & Equipment	33180	0	0	: 0	0	0	0	0	0
Working Capital	3272	0	0	0	0	0	0	0	0
	1685	0	0	0	0	0	0	0	0
Training	300	0	0	: 0	: 0	 O	0	0	0
To+o1	28437	c	c	:. C	 C	0	0	0	0

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Annual Investment ** base case **

PHASE	2013	2014	2015 :	2016	2017 :	2018	2019	2020 :	2021
lase 1 Investment & Equipment									
Working Capital	0	0	0	0	0	0	0	 0	0
Start-Up Reserve Expense		0	o	0	0	0	0	0	¢
Training	0	¢	0	0	; 0	0	0	0	o
Total	0	0		0	: 0	0	: 0	: 0	0
Phase 2 Investment & Equipment					•••	_	•••		
Working Capital	0	0	0	0	 0	0	0	0	0
Start-Up Reserve Expense	0	0	0	0	 0	0	0	0	0
Training	0	0	0	 0	 0	0	0	•	0
Total	 0	0	 O	 o		0		 0	0
Phase 3 Unvestment & Equipment							• •		
Working Capital	0	0	0	0	0	0		0	0
Start-Up Reserve Expense		0	0	0	0	0	0	0	0
Training	0	0	0	0	0	0	. 0	0	0
Total	0	0	0	: 0	•	0	0	0	0
Total Unvestment & Equipment	0	0	 0	0	0	0	: 0	0	0
Working Capital	0	0	0	•	0	0	0	0	Ö
	0	0	0	0	0	0	0	0	0
Training	0	0	0	0	0	0	: 0	: 0	0
Total	: 0	0	. : C	•		0	0		0

Annual Investment ** base case **

PHASE	2022	2023	2024
Phase 1 Investment & Equipment			
Working Capital	•	0	0
$\sim$	0	0	0
ni ng	0	0	0
Total	0		0
Phase 2 Investment & Equipment	_		
Working Capital	0	0	0
Start-Up Reserve Expense	0	0	0
ing	Ó	0	o
Total	0	 ọ	0
Phase 3 Investment & Equipment	_		
	0	0	0
Start-Up Reserve Expense	0	0	0
іпд	0	0	0
Total	0		0
Total Investment & Equipment	0	0	0
	0	0	0
Start-Up Reserve Expense	0	0	0
	0	0	0
[rota]	0	0	0

-372-

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Capacity Load <u>Producti</u> Coal/Gas Coal/Bai CacO3/Ga	Pri ce	T/Hr	Hours	fulicost [	2000	2001	2002	2003
Del Monterior         14.00         105.0         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11.805         11						င္း	500	500	500
Constraint         14.00         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.40         195.	Coal/Gas Coal/Bai CaCO3/Gas					- in 10	450	500	500
Constraint         Table         Table <thtable< th="">         Table         Table</thtable<>	Coal/Bai CaCO3/Gas	14.0	5.4	8000		0	10624	11805 :	11805
Constraint         S. 30	CaCO3/Gas	14.0	ი ი	8000	ເກ ເກ	86	4965	5522	5522
Carcon/Station         Dis.         Dis. <thdis.< th="">         Dis.         Dis.</thdis.<>		сС гО	6 2	8000	¢ 1	7	184	204	204
Screek/Constraint         70,00         1,13         643         770         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713         713 <th713< th="">         713         713</th713<>		8 8	S	8000	106	74	ເກ	106	106
Gatal Variable Cals         1370         1224         1280         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380         1380 </td <td></td> <td></td> <td>-</td> <td>8000</td> <td>633</td> <td>443</td> <td>570</td> <td>633</td> <td>633</td>			-	8000	633	443	570	633	633
Total Marka         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740         13740				8000	1360 :	35	1224	1360 :	1360
Operating Description (1)         Sector (1)	Total Variable Cost					7	17665	19629 :	19629
Mailte & Mailte Bases         Mailte Bases <thmailte bases<="" th="">         Mailte Bases         Mailt</thmailte>	Operating wages.	_				5	6279	4456	2.422
Rail Free All Istrict Acid         Rail Free All Istrict Acid <th< td=""><td>Pperating expense</td><td></td><td></td><td></td><td></td><td>0</td><td>8979</td><td>8979</td><td>4490</td></th<>	Pperating expense					0	8979	8979	4490
Calification         Early and an analysis         Early and another and another and another and another anot	a) (					202	n,	5558	5558
Reventix         No.         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <th0.0< th="">         0.0         <th0.0< th=""> <th0.0< <="" td=""><td>Total Production Co</td><td></td><td></td><td></td><td></td><td>735</td><td>- 10-</td><td>38732 -</td><td>32198</td></th0.0<></th0.0<></th0.0<>	Total Production Co					735	- 10-	38732 -	32198
Media         Totalization         Totalization <thtotalization< th="">         Totalization</thtotalization<>	z Capacity						0		00.0
Eraduction         14,00         19,400         19,00         19,00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th=""> <th0< t<="" td=""><td>Load</td><td></td><td></td><td></td><td></td><td>-</td><td>00.0</td><td>00.00</td><td>0.70</td></th0<></th0<>	Load					-	00.0	00.00	0.70
Call (Sat.         14,00         105,40         8000         15805         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th=""> <th0< td="" th<=""><td></td><td></td><td>•••</td><td></td><td></td><td>0</td><td>0</td><td>0</td><td>350</td></th0<></th0<>			•••			0	0	0	350
Deal/Bal.         Deal/Bal. <thdeal bal.<="" th="">         Deal/Bal.         <thdeal bal.<="" th="">         Deal/Bal.         <thdeal bal.<="" th=""> <thdeal bal.<="" th=""> <thdea< td=""><td></td><td>14.0</td><td>5.4</td><td>8000</td><td>2</td><td>0</td><td>0</td><td>0</td><td>8263</td></thdea<></thdeal></thdeal></thdeal></thdeal>		14.0	5.4	8000	2	0	0	0	8263
Carron (Constraint)         Display         Display <td></td> <td>14.0</td> <td>9.3</td> <td>8000</td> <td>ŝ</td> <td>0</td> <td>0</td> <td>•</td> <td>3865</td>		14.0	9.3	8000	ŝ	0	0	•	3865
Constraint         To Sol         To Sol <thto sol<="" th=""> <thto sol<="" th=""> <thto sol<="" td=""><td></td><td>α</td><td>0</td><td>8000</td><td>· •</td><td>0</td><td></td><td></td><td>4.7</td></thto></thto></thto>		α	0	8000	· •	0			4.7
Markan, Carabitation         70.000 (1.13)         1.13 (1.00)         3000 (1.13)         1.13 (1.01)         3000 (1.13)         1.13 (1.01)         3000 (1.13)         1.13 (1.01)         3000 (1.13)         1.13 (1.01)         3000 (1.13)         1.13 (1.01)         3000 (1.13)         1.13 (1.01)         3000 (1.13)         1.13 (1.13)         1.14 (1.13)         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00			nji H		······································				
Refails         Value         <			2	0000	00 F				
Catal Yas/Chemicals         B000         1360         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>Scrap/Gas</td> <td>0.01</td> <td></td> <td>8000</td> <td>633</td> <td>0</td> <td>0</td> <td>0</td> <td>443</td>	Scrap/Gas	0.01		8000	633	0	0	0	443
Total Variable Cost         0         0         0         0         0         0         0         0         0         246           Descriting Ragges	Catalyst/Chemicals			8000	1360:	0	0	0	952
Description         Construction         Construction </td <td>Total Variable Cost</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C</td> <td></td> <td>12740</td>	Total Variable Cost						C		12740
Decretation         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0         <th0< th=""> <th0<< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2010</td></th0<<></th0<></th0<>									2010
Mairie & Insurance Mairie & Insurance Mairie & Insurance Mairie & Insurance Mairie & Insurance Deal Production Cost Load Coal Mai Load Coal Mai Coal Mai Co	V.V.C. G. 1.116 . 4.05 C.S.	-				<b>N</b>			24.2
Mainte & insurance         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0         <th0< th=""></th0<></th0<>	Uperating expense	-				0	0	: 0	4490
Detail Production Cost         0         0         0         0         2396           Cost(detion         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0         <th0< th=""></th0<></th0<>	Mainte & Insuranc		••		•••	· ·	:0	: 0	3270
Conduction         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00			••		•••	0	0	: 0	÷.3
Load         Load         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td></td> <td></td> <td></td> <td></td> <td>••</td> <td></td> <td></td> <td></td> <td></td>					••				
Production         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00		~ ~							
Coal/Gas         14.00         105.40         8000         5522         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0         <th0< th=""> <th0< th=""></th0<></th0<></th0<>		c	; <b>°</b>	c			C	C	C
Coal/Mai         14.00         49.30         8000         5522         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0         <th0< th="">         0</th0<></th0<>				0000	ļ,				
Decky, Mail         Latvol         29,24         0,0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0         <th0< th="">         0</th0<></th0<>			r ( 2 (		0-1 -1-1				
Caraby Carab         8.80         2.90         8000         2.91         8000         2.93         8000         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0         0         &lt;</th0<>			י ה ה	0008	n-i				
Cac03/Bai         8.80         1.50         8000         106         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0</th0<>		20	n.	8000	204	0	0	0	0
Scrap/Gas         70.00         1.13         5000         533         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0         <th0< th="">         0</th0<></th0<>	CaCO3/Bai	8.8	ິ	8000	106:	0	0	0	0
Catal Variable Cost         000         000         0000         0000         0000         0000         0000         0000         0000         00000         00000         00000000         0000000000         00000000000000         000000000000000000000000000000000000	Scrap/Gas	0 02	-	8000	633	C	0	; c	c
Total Variable Cost         000000000         00000000000         000000000000000000000000000000000000					0.00				Ċ
Decret variable cost         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0			•	0000	0 AOT				
Dperating wages.         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0         0</th0<>	CTAL VATIADLE		-		•••	0	0	0	0
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Mainte & Insurance         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0         0</th0<>	Operating expense	<u> </u>							
Total Production Cost         0         0         0         0         0         0         0         0         100           Froduction         500         500         500         500         500         500         85           Froduction         0         70         0.90         1.00         0.85         1.00         85           Doad         0         70         0.90         1.00         90         1.00         85           Coal/Gas         0         0         0         0         0         0.90         1.00         85           Coal/Gas         0         0         0         0         0         0         0         34         34           Coal/Gas         184         3         184         252         95         107           Cac03/Bai         143         184         250         570         533         107           Scrap/Gas         136         136         136         136         107         106         107           Catal/St/Chemicals         1         143         136         136         107         107           Catal/St/Chemicals         1         136         136	Mointa & Thomas A	-							
Induction         No.         N	1								
Capacity         500         500         500         500         100           Production         350         65         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500 <t< td=""><td><u>oduction Co</u></td><td></td><td></td><td></td><td></td><td>0</td><td>0</td><td>0</td><td>0</td></t<>	<u>oduction Co</u>					0	0	0	0
Production       350       450       500       85         Load       0.70       0.90       1.00       0.85         Coal/Gas       355       1205       2005       35         Coal/Gas       3855       4969       5522       938         Cac03/Gas       143       184       204       16         Cac03/Gas       653       136       231         Cac03/Gas       174       95       107         CatalYst/Chemicals       136       533       107         CatalYst/Chemicals       13740       1766       19529       336         Dotal Variable Cost       13740       1766       19529       336         Distrating expense       8979       8979       8979       8979         Distrating expense       8979       8979       8979       8979         Distrating expense       558       558       558       558       558	-	_				200	0	500 :	8
Load         0.70         0.90         1.00         0.8           Coal/Gas         8263         10624         11805         2006           Coal/Gas         3455         10624         11805         206           Coal/Gas         3455         10624         11805         206           Coal/Gas         3455         1965         10624         11805         206           Coal/Gas         143         154         106         13           Catalyst/Chemicals         13740         1224         1360         231           Catalyst/Chemicals         13740         1766         19529         3335           Detrating exerce         8979         8979         8979         8979           Mainte & Insurance         8558         5558         5558         5558         5558         5558		-				950	L.	: 005	u
Coal/Gas         8263         10624         11005         2006           Coal/Bai         8865         1965         2006         3465         204         34           Cac03/Gas         143         143         184         204         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34         34<	÷.,	-				t	0		0
Coal/Gas         2063         10624         11805         2006           Coal/Bai         3865         4569         5522         938           Cac03/Bai         143         184         34         34           Cac03/Bai         143         184         35         106         18           Cac03/Bai         143         184         34         34         34         34         34         34         34         34         34         34         34         34         34         34         36         333         107         570         533         107         552         3336         2331         107         552         3336         336         3356         3336         3356         3336         3336         553         3336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336         5336 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>oľ</td></t<>								1	oľ
Coal/Bat         3865         4969         5522         938           CaC03/Gas         143         184         204         34           CaC03/Bai         74         95         106         18           Scrap/Gas         95         106         18           Scrap/Gas         95         106         18           Scrap/Gas         95         106         18           Cato3/Bai         95         106         107           Scrap/Gas         95         126         136           Catal/st/Chemicals         13740         1224         1360         231           Cotal/wase         8979         8979         488         8979         8879           Dperating expense         8979         8979         8979         8928         8928	Coal/Gas	_	• •	:	• • • •	30	62	80	Ś
CacO3/Gas       143       184       204       34         CacO3/Bai       18       204       34         Scrap/Gas       18       166       18         Scrap/Gas       570       533       107         Scrap/Gas       95       106       18         Catalyst/Chemicals       95       106       231         Catalyst/Chemicals       952       1264       1360       231         Cotal Variable Cost       13740       17666       19629       3336         Operating experse       8979       8979       8979       8979       897         Mainte & Insurance       5658       5658       5658       5658       582       582	Cosl/Bai					α	å	u u	iα
Carcol Mas         Carcol Mas         Carcol Mas         Cord         Card         Card <thcard< th="">         Card</thcard<>		÷-				5	)   	) · C	<b>0</b> ' '
CaC03/Bai     74     95     106     18       Scrap/Gas     570     533     107       Scrap/Cas     952     1224     1360     231       Cotal vst/Chemicals     952     13740     19529     3336       Cotal vst/Chemicals     8979     6579     448       Derating expense     8979     8979     8979     8979       Mainte & Instrance     5658     5658     5658     8929						075 T	0	2.04	ы.
Barap/Gas     570     533     107       CatalYst/Chemicals     952     1224     1360     231       Total Variable Cost     13740     17666     19629     336       Operating wages     8979     6579     448     8979     8979       Mainte 8     Instrance     558     5658     5658     597	_					74	ത	: 901	80
Catalyst/Chemicals Catalyst/Chemicals Total Variable Cost Derating wages Derating expense Mainte & Insurance S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558 S558						243	5		5
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Total Variable Cost         19666:         19629:         3336           Operating wages         8979:         6579:         4466:         488           Operating expense         8979:         8979:         8979:         8979:           Mainte & Insurance         5658:         5658:         892	Catalyst/Chemic					2	2	က၊	233
Dperating wages 8979: 6579: 4466: 488 Dperating expense 8979: 8979: 8979: 8979 8979 8979 8979 8	Total Variable		•••			7	99	96	336
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insurance [ 5658 5658 5658 5658 5658 5658 5658 56							n -	¢	
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Production Cost ** Base Case **

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	a1/ ba1	22.5c	5.2.6	N	N D	5525	N	27.CC	5522	5522
	CaCO3/Gas	204	204	204	204	204	o:	204	204	204
	CaCO3/Bai		106	106	106 :	106	$\mathbf{o}$	105 :	106	106
	Scrap/Gas		533	ê	63	633 :	63	633	633	633
	Chemicals	1360	1360	1360 :	1360 :	1350 :	G	1360 :	1360	1360 :
1 1 1 1	rotal Variahla Cost	10690	106201	6.5	ŝ	10620	6	19629	10620	10620
		200.0		\$	3		<u>.</u>	142 L		
	OPELATING WAGES	640	7577	* D	1 0	244	đ,	240	7 <b>6</b> 0	244
	erating expense	4490	2993	5	56	2993	5	2993	2993	2993
E	- Ă		5658	5658	ទទ	5658	ទួ	5658 :	5658	5658
21	Total Production Cost	32243	30022	28822 :	28822 :	28822	<b>N</b>	28822 :	28822	28822
Phase 2 Ca	Capacity	500	500	IC L	00	500 :	ပြုလ်	С С	C L L	000
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			200.							2000
<u>.</u>	-061/Gas	10024	609TT			CO277	⊃}i	2	C0811	11805
<u></u>	CORI/BAI	4969	5522	2	2	5522	N,	5522	5522	5522
a O O	CaCO3/Gas	184	204		204	204	0	204	204	204
C a	CaCO3/Bai		106		105	106	0	106 :	106	106 :
_			633		63	633	ŝ	633	633	633
ţΟ	atalvst/Chemicals	1224	1360	1360	1360	1360	÷œ	1360 :	1360	1 2 6 0
	otal Variable Cost	17666	10630	ŝ	5	19629 :	10	10620	10620	106301
	Ara+ing 100000	0001			5	1070	김고	0707 1		67027
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3.		0.1.00	5000		0000	20101	ן ת ה ל	2222	5.5.7	2993
Ma	Mainte & Insurance	3270	3270	327	3270	327	327	327	327	3270
	Total Production Cost	27168 :	26434	26434	43	က	40	$\sim$	26434 :	26434 :
Phase 3 Ca	Capaci ty.		500	500	500	500	S.	500	500	500
0 T	-0 ad		0.70	06.0	1.00	O,	O;	$\sim$	1.00	00 1
	Production		350	450 :	500 :	50	20	$\sim$	500	500
	Coal/Gas	0	8263	0	11805	0	φ.	$\sim$	11805	11805
			3865	4969	5522 :	22	ŝ	552	552	5522
С ^а	3/08		143	8	204	20	20	$\cdot$	204	204
B	CaCO3/Bai		74	95 :	106	$\circ$	0	106	106	106
Ğ			443	570	ŝ		. 0		623	000
	Catalvat/Chemicals	0	952	1224	1360	1.0	) (C	1.00	1040	040
	Total Variable Coct		19740	17666	ŝ	sic	) c	10000	0001	0000
12			۳١.		1		51			13028
đ	Uperating wages		2	242	542	n i	4	сні ^с .	542	542
40	Uperating expense		2	ה הכ	9.9	5	56	~	2993	2993
E M S	inte & insurance		2	2	5	53	ŝ	$\sim$	2534	2534 :
	Total Production Cost		있	ព	25698 :	5	σ	-	25698 0	25698
otal Ca	Capacity	0	2	000	50	50	50	$\sim$	150	1500
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ວິ	Coal/Gas	242	31873	V	541	14	541	141	27	
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	CaCO3/Bai	20	28	õ	8		6	i.	• •	5
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	Catalyst/Chemicals	600	3672	5	÷α		à	'nα	$\gamma \alpha$	0207
1	Total Variable Cost	0	ူဇ္	6	∣∞	g		×Ια	s a	58967
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Case
Base
* *
Cost
Production

PHASE		2013	2014	2015	2016	2017	2018 :	2019 :	2020 :	2021
L Ca	acity	500		500	500	500	500	500	500	500
Load		1 00		1.00	1,000	1.00	1,00	1.00	1 00	00° 1
	1/202				Ω]α	11805	nα	11805	11805	200011
	~ ~	5522		5522	5522	5522	5522	5522 :	5522	5522
CaC	<b>33/Gas</b>	204	20	204	<ul> <li>N</li> </ul>	204	(N)	204	204 :	204
CaC	CaCO3/Bai	106		106	106	106	106	106	106	106
Scr		633	633	633	633	633	633	633	633	633
Catal motol	<u>Vst/Chemic</u>	1360		10690	1350	10630	γļα	10620	10690	10620
				- 2078-	DIR		թլա	670AT		5706T
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			n-11 n-11		n u		0.00	1000 C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Total	Production Cost	28822		28822 :	28822	28822	28822 :	28822 :	28822	28822
Phase 2 Cap	ty	500	10	500 :	ւթյ	4	ເທ	500 :	500 :	
		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Pro	action	500	5	500	10	500	ະທ	500 :	500 :	500
Coal	/Gas	0	8	11805	w:	11805	11805	11805	11805	11805
Coal	(Bai	цо: Cu		5522	5522	5522	<b>57</b> • •	5522	5522	5522
	Gas	204		204	204	204	204	204	204	204
	ac03/ Ba1	105		106	106	100	1 00	00 T	100	90 T
500	ap/ tas	2000		220	42: L	000	$o \cdot c$	770 770	000	0001
	al Voriahia Cort	. 06901 .		. 0001	. 06901	106301	1 06.90	10620	10670	10630
Due Due	ting wares	12	D L		րո	12062		549	: 275	67007
DDe	expense	2993	5 0	2993		2993		2993	2993	2993
Mainte	Insurance	3270		3270	3270	3270	3270	3270	3270	3270
Iotal	Ъг	26434	4	26434		26434		26434	26434 :	26434
Phase 3. Cap	city	500	Ω.	500	us.	500	u 2	500	500	500
	3104 105	500		1, 00		1,00	001	1.00	100-7	
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Coa		5522		5522	5522	5522	5522	5522	5522	5522
CaCOS/	O3/Gas	204	Ň	204		204		204	204	204
CaCO3/	Bai	106		106	106	106	106	106	106	106
Scr	/Gas	633	633	633	0.0	633	633	633	633	633
	-	. 0001		000T	~ I `	. 000T		- 000 T	- 0000 -	
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Total	Pro	25698 :	00	25698 :		25698		25698	25698 :	25698
otal Capaci	scity	1500	150	1500		1500			1500 :	1500
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Load	ro	1.00	0	* *	нÌ.		ed)			
508	Coal/Gas	41400	-1-1	35414	35414	35414		35414	35414	35414
	17, 581. 03 / 655	6 1 9 1 0 0 0 1	0. 0. v		ō:		õ			
	03 / Bo +	317	6- 5-0	1.10	57 D	410	212	317	410	410
Scrap		1898	60	1898		1898		1898	1898	1898
Cat	Catalyst/Chemicals	4080	00	4080	4080	4080		4080	4080	4080
Total	al Variable Cost	ω		58887 :	58887 :	58887 :	58887 :	58887 :	58887 :	58887
Dpe	Operating wages	1626	<b>CI</b> -1	1626		1626		1626	1626	1626
ope Dpe	perating expense	8979	5	0100						0000
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	Price	1996	1997	1998	1999	2000	2001	2002	2003
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on Cost	32243	:0	28822	28822	28822	28822	28822	28822 :	80
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Base
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Sales

		2013	2014	2015	2016	2017	2018	2019	2020	2021 :
hase 1 Production		500	500 :	500 :	500	500 :	500	500	500	500
Sales		87500 :	87500	87500	87500	87500	87500 :	87500	87500 :	87500
Production Cost	st	28822	28822	28822	28822	28822	28822	28822	28822	28822
Admin & Selling Expense	ng Expense							· · ·		•••
Gross Income		58678	58678 :	58678 :	58678 :	58678 :	58678 :	58678	58678 :	58678
Phase 2 Production		500 :	500 :	500 :	500	500 :	500 :	: 003	500 :	500 :
Sales		87500	87500	87500	87500	87500 :	87500 :	87500	87500 :	87500
Production Co	ost	26434	26434	26434	26434	26434	26434	26434	26434	26434
Admin & Sell	Admin & Selling Expense		•••							
Gross Income		61066	61066	61066 :	61066 :	61066	61066	61066	61066	61066
hase 3 Production		500 : .	500 :	500	500	500 :	5.00	500	500 :	500
		87.500 :	87500 :	87500 :	87500	87500	87500 :	87500	87500 :	87500
ö	roduction Cost	25698	25698	25698 :	25698	25698	25698	25698	25698	25698
Gross Income		61802	61802 :	61802 :	61802 :	61802	61802 :	61802	61802	61802
Cotal Production		1500 :	1500 :	1500	1500 :	I500:	1500 :	1500	1500	1500 i
Sales	2	262500	262500	262500 :	262500	262500 :	262500 :	262500	262500	262500
Production Cost	ost	80954	80954	80954	80954	80954	80954	80954	80954	80954
Admin & Sell	Admin & Selling Expense	0	o	0	0	0	0	0	0	0
Gross Income		181546	181546 :	181546 :	181546	181546	181546	181546	181546	181546

Sales & Cost ** Base Case **

•					•						• •							-		
2024	500	87500	28822		58678	500	87500	26434		61066	500	87500	25698		61802	1500	262500	80954	0	181546
2023	500	87500	28822		58678 :	500 :	87500	26434		61066	500 :	87500 :	25698		61802	1500 :	262500	80954 :	0	181546
2022 :	500	87500 :	28822		58678	500 :	87500	26434		61066	500 :	87500	25698		61802 :	1500 :	262500	80954	¢	181546
	hase 1 Production	Sales	Production Cost	Admin & Selling Expense	Gross Income	Phase 2 Production	Sales	Production Cost	Admin & Selling Expense	Gross Income	Phase 3 Production	Sales	Production Cost	Admin & Selling Expense	Gross Income	otal Production	Sales	tion Co	Admin & Selling Expense	Income

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hase 1 Capital Cost Stream		44842	66241	200967 :	70409 :		0	: 0	0
cam		231 :	6.76	2617	9317 :	37356 :	38882	38732 :	32198
Sales Stream		0		0	• •	61250	78750	87500 :	87500
Benefit Stream		-231 :	-676 :	-2617	: 2185-	23894 :	39868	48768 :	55302
Net Benefit Stream		-45073 :	-66917 :	-203584	-79726 :	23894 :	39868	48768 :	55302
Phase 2 Capital Cost Stream		 0	 0	0	 0	64738 :	111007	47540 :	0
eam	'	•	0	0	0	338	338	225 :	23967
		0	0	0	¢	. 0	C	0	61250
Benefit Stream		0	0	0	•	-338	-338	-225 :	37283
Net Benefit Stream	••	0	0	0	0	-65076 :	-111345 :	-47765 :	372.83
Phase 3 Capital Cost Stream		. 0		. 0	: 0	0		50536 :	85210
eam		0	0	0	0	0	0	225	229
Sales Stream		0	0	0	0	0	0	ò	0
Benefit Stream		0	0	0	0	0	 o	-225 :	-229
		•	0	0	0	. 0	0	-50761 :	-85439
Total Capital Cost Stream		44842	66241	200967 :	70409 :	64738 :	111007	98076 :	85210
Dprerating Cost Stream		231	676	2617:	: 2166	37694	39220	39182 :	56395
Sales Stream		0	0	0	•	61250	78750	87500	148750
<u>Benefit</u> Stream		-231 :	-676	-2617 :	: 1186-	23556 :	39530 :	48318 :	92355
Net Benefit Stream		-45073	-66917 :	-203584 :	-79726 :	-41182 :	-71477 :	-49758	7145

Economic Internal rate of Return ** Base Case ** ( \$14 - 175\$/t - 780mil\$)

m         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0				2004	2005	2006	2007	2008	2009	2010	2011	2012
eam       32243       30022       28822       28822       28822         eam       87500       87500       87500       87500       87500         65257       57478       58678       58678       58678       58678       58678         55257       57478       58678       58678       58678       58678       58678         55257       57478       58678       58678       58678       58678       58678         78750       87500       87500       87500       87500       87500         78750       87500       87500       87500       87500         51582       61066       61066       61066       61066         51582       61066       61066       61066       61066         51582       61066       61066       61066       61066         51582       61066       61066       61066       61066         38437       0       0       25698       25698         6309       -32699       25698       25698       25698         63109       61205       61302       25698       25698         633437       0       0       0       0       0	Phase.	Capital Cost Stream			0	0	0	0		0		0
87500       87500       87500       87500         55257       57478       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58678       58698       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       6		Oprerating Cost Stream		32243	30022	28822 ;	28822	28822	28822	28822 :	28822	28822
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Sales Stream		87500	87500	87500	87500	87500 :	87500	87500	87500 :	87500
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Benefit Stream		55257	57478	58678 :	58678	58678 :	58678	58678 :	58678 :	58678
0     0     0     0     0     0       eam     27168     26434     26434     26434     26434       7550     87500     87500     87500     87500       51582     61066     61066     61066     61066       51582     61056     61066     61066     61066       38437     0     0     0     0       229     21009     23735     25698     25698       229     21009     23735     25698     25698       229     21009     23735     25698     2760       0     61250     78750     87500     87500       0     -229     40241     55015     61802       -38666     40241     55015     61802     61802       -38666     40241     55015     61802     61802       -38666     77466     78750     265300     265500       28437     0     0     0     0     0       59640     77466     7891     80954     181546     181546       166250     2363750     265300     265500     265500       80954     174750     181546     181546     181546		Net Benefit Stream		55257 :	57478 :	58678 :	5867.8	58678	58678 :	58678 :	58678 :	58678
e.a.m.       27168       26434       26434       26434       26434         78750       87500       87500       87500       87500       87500         51582       61066       61066       61066       61066       61066         51582       61065       61066       61066       61066       61066         3249       2373       25698       25698       25698       0       0         2229       40241       55015       61802       61802       61802       61802         -229       40241       55015       61802       61802       61802       0       0         -38666       40241       55015       61802       61802       61802       61802       0       0         -38437       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <t< td=""><th>Phase '</th><td>? Capital Cost Stream</td><td></td><td>0</td><td> 0</td><td>0</td><td>0</td><td> 0</td><td> 0</td><td> 0</td><td> 0</td><td>0</td></t<>	Phase '	? Capital Cost Stream		0	 0	0	0	 0	 0	 0	 0	0
Sales Stream       78750       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       87500       80954       80954       80954		Oprerating Cost Stream		27168	26434	26434 :	26434	26434 :	26434	26434	26434 :	26434
Benefit Stream       51582       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61066       61802       25668       25668       25668       25668       100       0       0       0       0       0       0       0       0       0       0		Sales Stream		78750	87500	87500	87500	87500	87500	87500	87500	87500
Net Benefit Stream         51582         61056         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         61066         6100         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0		Benefit Stream		51582 :	61066 :	61056 :	61066	61066	61066	61066 :	61066	61066
3 Capital Cost Stream       38437       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0<		Net Benefit Stream		51582	61066	61066 :	61066 :	61066	51056	61066 :	61066 :	61066 :
Dprerating Cost Stream       229       21009       23735       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25698       25692       61802       61802       61802       61802       61802       61802       61802       61802       61802       61802       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Phase .	3 Capital Cost Stream		38437 :	0			0	: 0	0	• •	0
Sales Stream         0         61250         78750         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87500         87502         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802		<b>Dprerating Cost Stream</b>		229	21009 :	23735	25698	25698 :	25698 :	25698	25698	25698
Benefit Stream         -229         40241         55015         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         60         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th="">         0         <th0< th=""> <th0<< td=""><th></th><td></td><td></td><td>: 0</td><td>61250</td><td>78750</td><td>87500</td><td>87500</td><td>87500 :</td><td>87500</td><td>87500 :</td><td>87500</td></th0<<></th0<></th0<>				: 0	61250	78750	87500	87500	87500 :	87500	87500 :	87500
Net Benefit Stream         -38666         40241         55015         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         61802         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20		Benefit Stream		-229	40241 :	55015 :	61802	61802 :	61802 :	61802	61802 :	61802
Capital Cost Stream         38437         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th0< th=""> <th0< th="">         0         <th0< th=""></th0<></th0<></th0<>		Net Benefit Stream		38666 :	40241	55015 :	61802	61802	61802 :	61802 :	61802 :	61802
Dprerating Cost Stream         59640         77466         78991         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954         80954	Total	Capital Cost Stream	•••	38437	 0	0	0	0	: 0	0	0	0
Ibit 166250         236250         253750         262500         262500         2           am         Ibit 16610         I58784         I74759         I81546         I81546         I           C+ream         58173         I58784         I74750         I81546         I81546         I		<b>Dprerating Cost Stream</b>		59640	77466	16687	80954	80954 :	80954 :	80954	80954 :	80954
: 106610 : 158784 : 174759 : 181546 : 181546 : 1 ream : 68173 : 158784 : 174750 : 181546 : 1		Sales Stream		66250 :	236250	253750	262500 :	262500 :	262500 :	262500	262500	262500
: 68173 : 158784 : 174750 : 181546 : 181546 : 1		Benefit Stream	-	06610 :	158784 :	174759	181546 :	181546 :	181546 :	181546	181546	181546
		Net Benefit Stream		68173 :	158784 :	174759 :	181546	181546	181546 :	181546 :	181546	181545

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Economic Internal rate of Return ** Base Case ** ( \$14 - 175s/t - 780mil\$)

		2013	2014	2015	2016	1102	2018	2019	2020	2021
hase 1	Capital Cost Stream	0	0		0	0	0	0	0	0
	Oprerating Cost Stream	28822	28822	28822	28822	28822	28822	28822	28822	28822
	Sales Stream	87500 :	87500	87500	87500	87500	87500	87500	87500	87500
	Benefit Stream	58678	58678 :	58678 :	58678 :	58678 :	58678 :	58678	58678	58678
	Net Benefit Stream	58678 :	58678	58678 :	58678 :	58678	58678 :	58678 :	58678 :	58678
se 2	Phase 2 Capital Cost Stream	0				: 0	0	0	: 0	0
	<b>Pprerating Cost Stream</b>	26434	26434	26434	26434	26434	26434 :	26434	26434	26434
	Sales Stream	87500	87500	87500 :	87500	87500	87500	87500	87500	87500
	Benefit Stream	61066	61066 :	61066	61066	61066 :	61066 :	61066	61066 :	61066
	Net Benefit Stream	61066 :	51066 :	61066 :	61066	61066 :	61066	61066	61066 :	61066
se 3	hase 3 Capital Cost Stream	 ¢		 0	 0	0	•	• • • •		0
	Oprerating Cost Stream	25698	25698 :	25698 :	25698	25698 :	25698 :	25698	25698 :	25698
		87500	87500 :	87500	87500	87500 :	87500	87500	87500	87500
	Benefit Stream	61802	61802 :	61802	61802	61802 :	61802 -	61802	61802	61802
	Net Benefit Stream	61802	61802 :	61802	61802 :	61802 :	61802 :	61802	61802	61802
Total	Capital Cost Stream	0	. 0	0	: 0		: 0	0	0	0
	<b>Dprerating Cost Stream</b>	80954	80954 :	80954	80954	80954	80954 :	80954	80954 :	80954
	Sales Stream	262500	262500 :	262500	262500	262500 :	262500	262500 :	262500	262500
	Benefit Stream	: 181546	181546 :	181546 :	181546	181546	181546 :	I81546 :	181546 :	181545
	Net Benefit Stream	: 181546 :	181546 :	181546 :	181546 :	181546 :	181546 :	181546 :	181546 :	181546

Economic Internal rate of Return ** Base Case ** ( \$14 - 175s/t - 780mils)

Ċ		0.50	:		10.66%			_~	19.90%					82%		`			14.95%
		ं		2	0				19.					24.	-			:	14.
	2024 [Initial		Phase 1	E.I.R.R.			Phase 2	Е.І.Я.Я.				Phase 3	E.I.R.R.				Total	E.I.R.R.	•
	2024	-3272	28822   87500 Phase	1 1	61950	¢	26434 87500		61066	0	25698	87500 Phase	61802	61802	-3272	80954	262500 Total	181546	184818
	2023		28822 87500	58678 :	58678		25434 87500	61.066	61066 :		25698	87500	61802	61802	0	80954	262500 :	181546 :	181546 :
	2022	•	28822 87500	58678	58678	0	26434 87500	61066 :	61066 :	0	25698	87500	61802	61802	0	80954	262500	181546	181546
		<u>Capital Cost Stream</u> :	Oprerating Cost Stream Sales Stream	Benefit Stream	- 1	-1	Dprerating Cost Stream Sales Stream	Benefit Stream	Net Benefit Stream :	Capital Cost Stream	Oprerating Cost Stream	Sales Stream	Benefit Stream	Net Benefit Stream :	<u>Capital Cost Stream</u> :	Oprerating Cost Stream	Sales Stream	Benefit Stream	Net Benefit Stream :
		Phase 1			- 4	Phase 2				Phase 3					Total				

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