MINE MANAGEMENT SERVICES

CLIENT REPRESENTATIVE



VITTO IT OFFICE OFFICE

TEN TROOTON THE SAMPLE -591 (MRSOZ



INTRODUCTION

- A well defined geological model, innovative and thoughtful mine planning, safe, well managed operations, and the careful systematic recovery of coal should be the requirements of any mine.
- **Britmindo** believes it can provide the standards of service that responsible corporate entities with a long term mining strategy demand and which is in keeping with the international status of the Indonesian Coal Industry.
- Britmindo provides technical studies and due diligence for international and local companies, investors and financiers.
- Britmindo offers Mine Management Services and Operational Improvement Initiatives and Programs to the Mining Industry.
- The Britmindo team includes qualified expatriate and Indonesian Mining Engineers,
 Geologists and other key Professional disciplines with proven performance to advise and assist on any mine development or operation.

OPERATIONS SNAPSHOT

CURRENT CONDITIONS

- Cumulative 40 Years mine management experience for IUP mine owners
 & contractors since Britmindo establishment.
- 80 Qualified operational staff supporting the various sites.
- 15 AusIMM certified members.
- 5 current operational mines under Britmindo management.
- 2 Pre-production mines soon to commence operations.
- Production under management ramping up to >750,000 metric tonnes and >3,500,000bcm per month.
- Capability to design, construct, install coal stockpiles, coal crushing, coal washing & barge loading systems and provide contract operation & maintenance management
- Balikpapan based operations support facilities providing geo modeling, mine planning, survey, outsourcing and administrative services.

MINE MANAGEMENT SERVICE

- SITE VISIT TO REVIEW CURRENT SITUATION
 - Greenfield, pre-production or operational mines
- DATA REVIEW TO DETERMINE ADEQUACY, ACCURACY, QUALITY, QUANTITY TO BUILD MINE GEO MODEL.
- DEVELOPMENT OF MASTER PLAN INCLUDING :
 - Life of mine production
 - Production sequencing
 - Waste dump location/s and hauling routes to reduce costs
 - Equipment selection to achieve production targets
 - Coal product qualities
 - Haul road alignments and proposed design
 - Mine infrastructure, Coal processing & loading plus support requirements
 - CAPEX/OPEX estimations
 - Timeline strategy against defined tasks and KPI's
 - Mine closure & Reporting
- CONTRACTOR SELECTION TENDER PROCESS
- CONSTRUCTION SUPERVISION OF MINE INFRASTRUCTURE
- PRODUCTION MINE MANAGEMENT
- DAILY, WEEKLY, MONTHLY, QUARTELY, ANNUALLY REPORTING SYSTEMS

CASE STUDY

PRE-PRODUCTION / MINE PLANNING CASE STUDY

 The following case study provides a simplistic idea of the various steps undertaken for the development of a green field mine site

Assuming:

- Mine XYZ, during August January 2013, completed an exploration program covering an area of 1,000 ha and generated the following results:
 - Identification of 9 outcrops
 - 177 bore holes
 - 50 quality holes
- Based upon economic analysis has determined break even strip ratio (BESR) at 4.58.
- The parameters used for this case study are:

Bench Height: 6 m

Berm Width: 3 m - Highwall

Berm Width: 5 m - Lowwall @ weathering zone

Single Slope: 50° - Hard Ground - Highwall

Single Slope: 37° - Soft Material - Highwall

Overall slope: 32° (w/layback)
Overall slope: 37° (w/layback)

Topography: Topo Lidar

Reserving Method: Sample Polygon

Minimum Thickness: 0.3 m
Dilution: 0.05 m – of thickness

Losses due to mining activity: 0.1 m

Density Default for Dilution: 1.5 kg/cu.m

CASE STUDY – EQUIPMENT SELECTION

EQUIPMENT TYPE	MODEL	ESTIMATED PROD'ITY	No.	COMMENT
EXCAVATORS	PC 400	200bcm/hr	2	Loading to ADT-A35
	PC 300	180 ton/hr	1	Coal Getting
	PC 200	75bcm/hr	1	Coal cleaning
DUMP TRUCKS	VOLVO A35	60bcm/hr	6	Overburden/top soil
COAL HAUL TRUCKS	NISSAN CWB	35tonne/hr	4	Can be used for barge loading activities also
BULL DOZERS	D 85 SS		3	Face maintenance, Top soil, dumps
				Roads maintenace
MOTOR GRADERS	GD 705		2	Pit and road maintenance.
ANCILLARY ITEMS	WA 150 loader		1	Coal stockpiles, barge loading
	Compactor		2	Coal Road, pit access, stockpiles
	Water truck		2	Coal Road, pit access, stockpiles
	6" pumps		1	Pit
	Tower lamps		5	Pit lighting
MINE SUPPORT	Service trucks			
	Lube trucks			
	Fuel trucks			
	Light vehicles			
	Buses	_		

CASE STUDY - PRODUCTION SCHEDULE

Description	M-01	M-02	M-03	M-04	M-05	M-06	M-07	M-08	M-09	M-10	M-11	M-12	Y2	Y3	Y4	TOTAL
Waste Removal (KBcm)	206.05	202.71	201.85	201.36	204.69	203.71	205.77	205.12	204.33	205.50	196.24	209.63	2,144.37	1,849.95	1,501.41	7,942.69
Coal Mining (Ktonnes)	22.66	40.41	51.74	51.37	52.16	52.88	53.05	52.27	51.92	51.47	50.83	52.84	653.43	652.51	653.71	2,543.25
Total Moisture	47.39	47.37	47.86	47.82	47.70	47.89	47.93	47.93	47.89	47.87	47.86	47.89	47.99	48.19	48.52	48.18
Inherent Moisture	29.29	30.26	33.06	32.21	31.61	33.00	33.31	33.39	32.60	33.37	33.35	33.29	33.85	34.55	35.35	34.08
Ash	4.90	4.74	3.45	3.72	3.93	3.54	3.17	3.05	3.38	3.07	3.11	3.33	4.16	0.12	3.36	2.85
Sulphur	0.17	0.17	0.18	0.17	0.18	0.17	0.18	0.18	0.18	0.19	0.19	0.18	0.14	3.90	0.11	1.08
Fixed Carbon	30.43	30.53	30.84	30.73	30.68	30.78	30.81	30.88	30.81	30.98	30.97	30.72	29.54	29.28	29.07	29.55
Calorific Value	4,635.21	4,523.36	4,292.30	4,377.04	4,433.42	4,291.66	4,301.27	4,301.88	4,365.54	4,296.26	4,294.54	4,293.73	4,208.95	4,141.90	4,093.46	4,187.53
Stripping Ratio	9.09	5.02	3.90	3.92	3.92	3.85	3.88	3.92	3.94	3.99	3.86	3.97	3.28	2.84	2.30	3.12
C2A (Ktonnes)	2.36	14.32	16.60	9.19	10.02	15.40	9.91	9.16	3.24	11.20	12.49	10.10	91.99	86.83	67.28	370.84
Total Moisture	47.32	47.32	47.41	47.39	47.46	47.33	47.59	47.68	47.59	47.54	47.53	47.36	46.31	46.93	47.97	47.15
Inherent Moisture	32.83	32.83	32.94	32.92	33.02	32.85	33.19	33.30	33.18	33.12	33.11	32.88	31.50	32.35	33.76	32.63
Ash	4.22	4.23	4.00	4.06	3.83	4.21	3.44	3.19	3.44	3.60	3.62	4.10	7.05	0.13	3.27	3.65
Sulphur	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.18	0.18	0.18	0.16	5.75	0.11	1.45
Fixed Carbon	30.91	30.90	30.94	30.93	30.98	30.90	31.07	31.12	31.07	31.03	31.03	30.94	30.39	30.40	30.62	30.64
Calorific Value	4,236	4,233	4,242	4,239	4,250	4,234	4,268	4,279	4,269	4,261	4,260	4,242	4,127	4,122	4,159	4,175
C2 (Ktonnes)	15.26	19.99	0.48	8.14	14.68	0.21	3.56	2.64	6.56	-	-	5.34	316.54	285.91	435.06	1,109.58
Total Moisture	47.18	47.19	47.26	47.17	47.20	47.23	48.00	47.99	47.21			48.06	48.25	48.33	48.64	48.34
Inherent Moisture	27.45	27.53	28.01	27.40	27.60	27.82	33.14	33.14	27.69			33.64	35.49	37.07	36.28	35.62
Ash	5.58	5.56	5.44	5.59	5.54	5.49	4.23	4.23	5.52			4.12	3.73	0.11	3.33	2.79
Sulphur	0.17	0.17	0.17	0.17	0.17	0.17	0.13	0.13	0.17			0.13	0.12	3.45	0.10	0.96
Fixed Carbon	30.22	30.20	30.11	30.23	30.19	30.14	29.05	29.05	30.17			28.94	28.50	28.09	28.55	28.54
Calorific Value	4,803	4,796	4,756	4,807	4,790	4,772	4,325	4,325	4,783			4,283	4,133	4,008	4,049	4,117
C2B (Ktonnes)	5.04	6.10	34.66	34.05	27.46	37.26	39.58	40.47	42.12	40.27	38.33	37.40	244.90	279.77	151.36	1,062.83
Total Moisture	48.07	48.11	48.08	48.09	48.06	48.13	48.01	47.98	48.02	47.97	47.97	48.00	48.29	48.45	48.41	48.36
Inherent Moisture	33.20	33.14	33.19	33.17	33.25	33.09	33.36	33.43	33.33	33.45	33.43	33.35	32.60	32.66	33.38	32.97
Ash	3.14	3.20	3.16	3.18	3.11	3.25	3.01	2.95	3.04	2.93	2.94	3.00	3.62	0.13	3.49	2.64
Sulphur	0.18	0.17	0.18	0.17	0.18	0.17	0.18	0.19	0.18	0.19	0.19	0.18	0.16	3.79	0.12	1.07
Fixed Carbon	30.83	30.77	30.79	30.79	30.84	30.74	30.91	30.95	30.89	30.97	30.96	30.92	30.56	30.14	29.90	30.22
Calorific Value	4,314	4,311	4,310	4,311	4,310	4,313	4,307	4,306	4,308	4,306	4,306	4,309	4,338	4,285	4,191	4,266

CASE STUDY – LoM PIT DESIGN

LIMIT OF PINJAM PAKAI	
Waste Removal (KBcm)	7,942.69
Coal Mining (Ktonnes)	2,543.25
Total Moisture	48.18
Inherent Moisture	34.08
Ash	2.85
Sulphur	1.08
Fixed Carbon	29.55
Calorific Value	4,188
Stripping Ratio	3.12

CASE STUDY – HAUL ROAD CONSTRUCTION

Working Hours per Week							
1 Week =	7	days					
Working Time :							
Day Shift (07.00 - 18.00)	11	hrs/shift					
Night Shift (19.00 - 06.00)	11	hrs/shift					
Available Hours per day	22	hrs					
Delay Time:							
Rain	3	hrs/day					
Slipperys	1.5	hrs/day					
Meal Time	2	hrs/day					
Refueling + Prestart Check	1	hrs/day					
Total Delay Time	7.5	hrs/day					
Mechanical Availability	85%						
Net Available Hours	12.325	hrs/day					
Net Available Hours per Week	86.275	hrs/week					

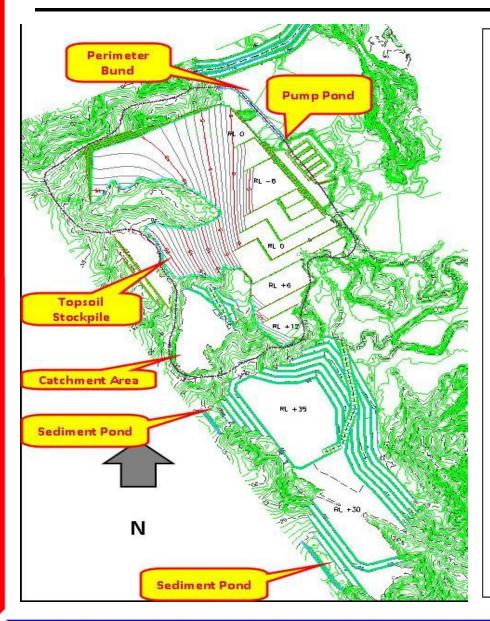
		PROD'TY	WORK DURATION			
EQUIPMENT USED	QUANTITY	PHOD IY	HOURS	WEEKS		
CULAND OB RIMOVAL						
Excavator PC:00	9	150 benylins	521	ė		
Bulldozer 198158	7	120 benylins	350	4		
Trucks DT CWB	6	NO bernylins	416			
	- Sub To	otal	871	10		
SMOOTHING, BED COMPACTING, LAM	INATING & FINISHIN	G				
Motor Grader GD705 / Cat 14H	1	5,205 m2/hrs	9	1		
Vibro Compactor SVS12 / Cat 531	2	650 m2/hrs	38	1		
Sand+Gravel (Rp. 800,000/m3)	7,390 m3		I			
	Sub-te	otal	47	9		
SUPPORT LQUIPMENT						
Excavator PC 700	2		345	4		
Tower tamp 4 kVA	7		415			
Light Vehicle (LV) Triton	1		527	12		
tuel truck	1		527	12		
	- Sub T	otal				

SUMMARY								
TOTAL ESTIMATION WORK DURATION		12 Weeks	12 Weeks					
Total Cost of Rental	Rp	1,588,785,626	\$	176,532				
Total Cost of Fuel	Rp	991,779,317	\$	110,198				
Total Cost of Material	Rp	2,216,880,000	\$	246,320				
Est. Mob and Demob Cost	Rp	360,000,000	\$	40,000				
TOTAL COST	Rp	5,157,444,943	\$	573,049				
OVERHEAD COST 10%	Rp	515,744,494	\$	57,305				
GRAND TOTAL COST	Rp	5,673,189,437	\$	630,354				

CASE STUDY – CASH FLOWS

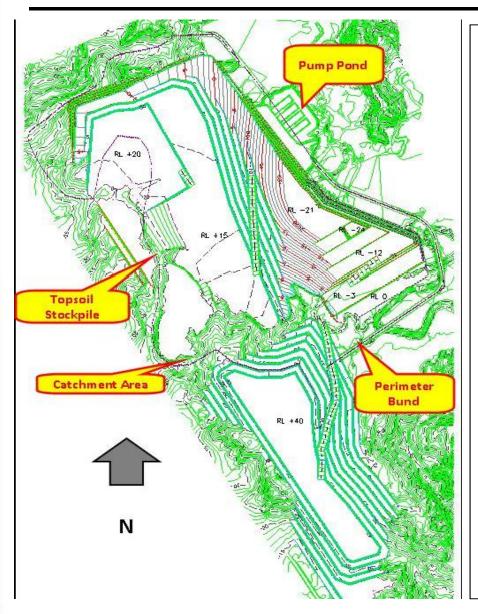
_	Stripping Rahor=		3.5									Year	-1						
_				Month 1		Month 2	Mic	anth 3	Month 4	Month 5		Monthh	Month /	Month 8	Month 9	Month	101	Month 11	Month 12
Орн	enting Cosh I kow	Units rat	PK																
_		050\$									-								
Λ	Revenue	Coalcutpu				15,000.00		35,000.00	50,000,00	50,000.00	11	50,000.00	50,000.00	MI,000.00	50,000.00	50,	0110,110	50,000.00	MI,000.00
	1 Cool Sales assume	\$:	25.00		\$	375,000.00	\$ 8	75,000.00	\$ 1,250,000.00	\$ 1,250,000.00	\$.	1,250,000.00	\$ 1,250,000.00	\$ 1,250,000.00	\$ 1,250,000.00	\$ 1,250,0	00.00	\$ 1,250,000.00	\$ 1,250,000.00
_	CoshReceived		_		\$	375,000.00	\$ 8	75,000.00	\$ 1,250,000.00	\$ 1,250,000.00	\$:	1,250,000.00	\$ 1,250,000.00	\$ 1,250,000.00	\$ 1,250,000.00	\$ 1,250,0	00.00	\$ 1,250,000.00	\$ 1,250,000.00
В	Boyalties and Lees																		
_	1 Dead Bent / Rehabilitations	8	0.30		8	4,500.00	9		\$ 15,000.00	\$ 15,000.00		15,000.00	\$ 15,000,00	\$ 15,000.00	\$ 15,000,00		00.00	\$ 15,000,00	\$ 15,000.00
_	2 Community Development	8	1.00		8	15,000.00	-			\$ 50,000.00			\$ 50,000,00	\$ 50,000.00			00.00		\$ 50,000.00
_	3 Land fees/compensations	8	2.00		8	30,000.00	9	AI,000.00	\$ 100,000.00	\$ 100,000,00	8	100,000,000	\$ 100,000,00	\$ 100,000.00	\$ 100,000,00	\$ 100,0	00.00	\$ 100,000,00	\$ 100,000.00
	4 GOI Royalties 3 1%	\$	0.73		\$	11,250.00	\$	26,250.00	\$ 37,500.00	\$ 37,500.00	\$	37,500.00	\$ 37,500.00	\$ 37,500.00	\$ 37,500.00	\$ 37,5	00.00	\$ 37,500.00	\$ 37,500.00
	NET REVENUE				\$	314,230.00	\$ 7	33,250.00	\$ 1,047,500.00	\$ 1,047,300.00	٤.	1,047,500.00	\$ 1,047,500.00	\$ 1,047,500.00	\$ 1,047,500.00	\$ 1,047,5	00.00	\$ 1,047,500.00	\$ 1,047,500.00
C	Mining costs																		!
		(Indicath	VC.																!
	1 OB Removal (USD\$/BCM)	rates)																	i
	(I) Production rate (BCM)	BCM				52,500		122,500	175,000	175,000	0	175,000	175,000	175,000	175,000	1	75,000	175,000	175,000
	(II) Cost on OB Removal	\$	2.00		\$	103,000.00	\$ 2	45,000.00	\$ 350,000.00	\$ 330,000.00	\$	350,000.00	\$ 330,000.00	\$ 350,000.00	\$ 330,000.00	\$ 350,0	00.00	\$ 330,000.00	\$ 350,000.00
	2 Coal Mining (USD\$/t)																		
	(II) Production Rate (tonnes)	Tonnes				15,000		35,000	50,000	50,000	0	50,000	50,000	50,000	50,000		50,000	50,000	50,000
	(II) Cost of Coal mining	\$	1.20		\$	18,000.00	\$.	42,000.00	\$ 60,000.00	\$ 60,000.00	\$	60,000.00	\$ 60,000.00	\$ 60,000.00	\$ 60,000.00	\$ 60,0	00.00	\$ 60,000.00	\$ 60,000.00
	(III) Cost of Coal Houling	\$	1.40		\$	21,000.00	\$.	49,000.00	\$ 70,000.00	\$ 70,000.00	\$	70,000.00	\$ 70,000.00	\$ 70,000.00	\$ 70,000.00	\$ 70,0	00.00	\$ 70,000.00	\$ 70,000.00
	3 Stockpile fee																		i
	(I) Cost of stockpile management	\$	1.00		\$	15,000.00	\$	35,000.00	\$ 50,000.00	\$ 50,000.00	\$	50,000.00	\$ 30,000.00	\$ 50,000.00	\$ 30,000.00	\$ 50,0	00.00	\$ 30,000.00	\$ 50,000.00
	4 Sampling	\$	0.23		\$	3,450.00	\$	8,050.00	\$ 11,500.00	\$ 11,500.00	\$	11,500.00	\$ 11,500.00	\$ 11,500.00	\$ 11,500.00	\$ 11,5	00.00	\$ 11,500.00	\$ 11,500.00
	5 Technical operating expenses Tubindo	\$	0.50		\$	7,500.00	\$	17,500.00	\$ 25,000.00	\$ 25,000.00	\$	25,000.00	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00	\$ 25,0	00.00	\$ 25,000.00	\$ 25,000.00
D	Site costs and contingencies																		į
	1 Office furnishings	LS			\$	1,000.00	\$	1,000.00	\$ 1,000.00	\$ 1,000.00	\$	1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,0	00.00	\$ 1,000.00	\$ 1,000.00
	2 contingencies	LS			\$	2,000.00	\$	2,000.00	\$ 2,000.00	\$ 2,000.00	\$	2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,0	00.00	\$ 2,000.00	\$ 2,000.00
	3 Communications	LS			\$	750.00	\$	750.00	\$ 750,00	\$ 750.00	\$	750.00	\$ 750.00	\$ 750.00	\$ 750.00	\$ 7	50.00	\$ 750.00	\$ 750.00
	4 Vehicle Hire x 4 units	Mth			\$	10,000.00	\$.	10,000.00	\$ 10,000.00	\$ 10,000.00	\$	10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,0	00.00	\$ 10,000.00	\$ 10,000.00
	5 Fuel Gensets and vehicles	Mth			\$	6,500.00	\$	6,500.00	\$ 6,500.00	\$ 6,300.00	\$	6,500.00	\$ 6,300.00	\$ 6,500.00	\$ 6,300.00	\$ 6,5	00.00	\$ 6,300.00	\$ 6,500.00
	6 Stationary and office expenses	Mth			\$	2,000.00	\$	2,000.00	\$ 2,000.00	\$ 2,000.00	\$	2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,0	00.00	\$ 2,000.00	\$ 2,000.00
	7 Food and miscellaneous	Mth			\$	5,000.00	\$	5,000.00	\$ 5,000.00	\$ 5,000.00	\$	5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,0	00.00	\$ 5,000.00	\$ 5,000.00
	8 Water supply ablutions	Mth			\$	500.00	\$	300.00	\$ 500,00	\$ 500.00	\$	500.00	\$ 500.00	\$ 500.00	\$ 300.00	\$ 5	00.00	\$ 300.00	\$ 500.00
E	Mine management services Britmindo	\$	1.50		\$	22,500.00	\$.	52,500.00	\$ 75,000.00	\$ 75,000.00	\$	75,000.00	\$ 75,000.00	\$ 75,000.00	\$ 75,000.00	\$ 75,0	00.00	\$ 75,000.00	\$ 75,000.00
	NELINCOME BIT ORETAK			9 -	8	94,050.00	\$ 2	56,450.00	\$ 375,250.00	\$ 376250.00	- 8	378,250.00	\$ 376250.00	\$ 378,250.00	\$ 376250.00	\$ 378,2	50.00	\$ 376250.00	\$ 375,250.00
	Tax	28%		s -	\$	26,334.00	\$	A1,805.00	\$ 105,910.00	\$ 105,910.00	8	105,910.00	\$ 105/010,00	\$ 105,910.00	\$ 105,010.00	\$ 105,5	10.00	\$ 105,910.00	\$ -105,910.00
	NET INCOME AFTER TAX			\$	\$	67,716.00	\$ 1	84,644.00	\$ 272,340.00	\$ 272,340.00	5	272,340.00	\$ 272,840.00	\$ 272,340.00	\$ 272,840.00	\$ 272,3	40.00	\$ 272,840.00	\$ 272,340.00
																			i
F	CapEx & Pre Operational Costs																		
	1 Preparation Cost As per attachment			\$ 893,239.98	\$	382,817.13													
	2 Mobilisation of Mining contractor			\$ 230,000.00															!
	3 Advance payments to contractor			-															į
	total pre operational costs			\$ 1,143,239.48	\$	382,817.13													
G	Net operating monthly cash flows			\$(1,140,200,98)	8	(315,101.13)	\$ 1	84,644.00	\$ 277,3MB.00	\$ 272,340,00	8	272,300.00	\$ 272,340,00	\$ 272,000.00	\$ 272,340,00	\$ 200	иплоп	\$ 272,340,00	\$ 272,000.00
п	Repayment of Loan facility (USD\$1/ton)											-							
1	Sub total after repayment of toan			\$(1,140,200,98)	8	(315,101.13)	\$ 1	84,644.00	\$ 277,300.00	\$ 272,340,00	8	272,300.00	\$ 272,340,00	\$ 272,000.00	\$ 272,340,00	\$ 200,0	иплоп	\$ 272,340,00	\$ 272,000.00
1	Overall accumulative cash flows			.,			-		\$ (1,001,357.11)			(456,677.11)					82.89		\$ 1,177,082,09
-				.,				2 11117	. The partition			, , , , , , , , ,						, ,	

CASE STUDY – YEAR 1 MINE LAYOUT



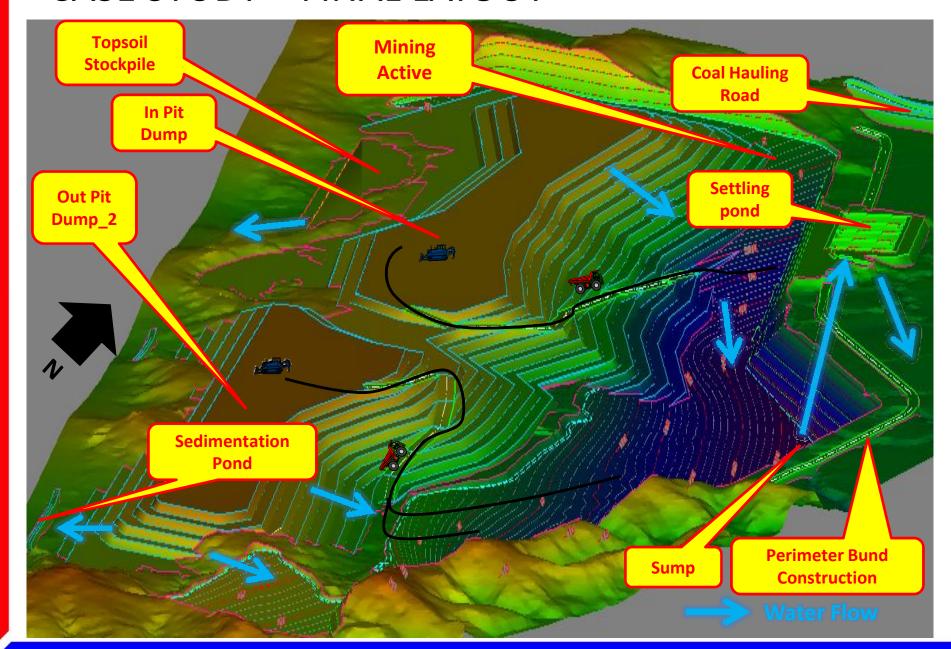
- Mining activity to start at the northern end
- Pit sump will be located in the high wall zone.
- Waste allocation: Coal Hauling Road Construction, OPD1, OPD2 & Topsoil Stockpile.
- Settling pond construction for pit area should be completed during 2nd Quarter.
- Sediment dam construction (sediment control) for OPD2 Area should be completed during 3rd & 4th Quarter.
- Perimeter bund construction at the northern end area should be finished end 1st Quarter.
- Outstanding issue : need to construct final settling pond for run off treatment.

CACE STUDY – YEAR 2 MINE LAYOUT



- Mining activity commenced from the northern area toward the southern zone.
- Pit sump will be allocated at the high wall zone.
- Waste allocation : Out Pit Dump2 & In Pit Dump Area at the northern area & Topsoil Stockpile .
- Perimeter bund construction to reduce catchment area at Year-2 mining boundary should be completed prior to swamp material removal.
- Direct run off surface water start from RL+30 at out pit dump area to the western area (sediment pond.)

CASE STUDY – FINAL LAYOUT



SAFE OPERATING PROCEDURES

<u>DEVELOPMENT, SOCIALISATION & IMPLIMENTATION OF HEALTH AND SAFETY SOP - examples</u>

No.	Procedure Management	Topics
1.	PM. SHE. 01	Communication, Participation and Consultation
2.	PM. SHE. 02	Contractors and suppliers
3.	PM. SHE. 03	Mine Roads and Traffic sign
4.	PM. SHE. 04	Personal Protective Equipment Control
5.	PM. SHE. 07	Investigation and Incident Report
6.	PM. SHE. 09	Unit standardization
7.	PM. SHE. 10	Mine Traffic Rules
8.	PM. SHE. 11	Coal Hauling
9.	PM. SHE. 12	ID- Simper
10	PM. SHE. 13	LOTO

SAFE OPERATING PROCEDURES

<u>DEVELOPMENT, SOCIALISATION & IMPLIMENTATION OF PRODUCTION SOP'S - examples</u>

No.	Procedure Management	Topics
1.	PM. PROD. 01	Working Near High wall
2.	PM. PROD. 02	Production Control
3.	PM. PROD. 03	Mud excavation and removal
4.	PM. PROD. 04	Moving and setting up pumps
5.	PM. PROD. 05	Determination of cropline
6.	PM. PROD. 06	Establishing mine sumps
7.	PM. PROD. 09	Disposal smoothing
8.	PM. PROD. 10	Soil Management
9.	PM. PROD. 11	Coal excavation and contamination

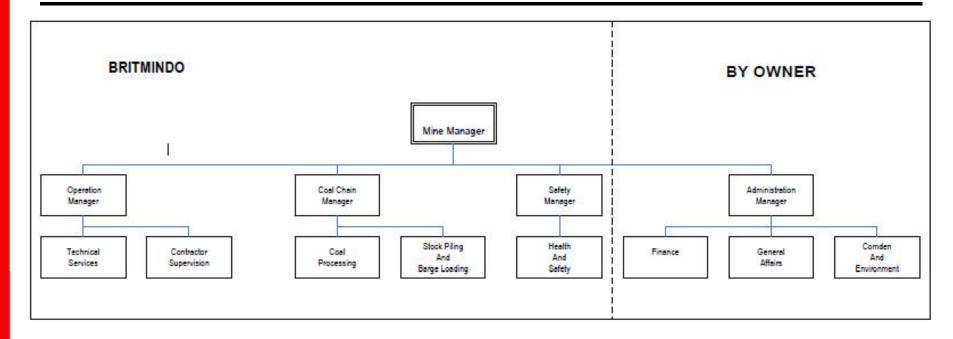
ORGANISATION STRUCTURE

THE ORGANISATION STRUCTURE AND COMPOSITION IS CRUCIAL TO ENSURE EFFECTIVE MANAGEMENT WITH DEFINED ROLES & RESPONSIBILITIES

BRITMINDO MINE MANAGMENT STRUCTURE IS VARIABLE AND SUBJECT TO:

- PRODUCTION TARGETS & MANNING LEVELS
- ROLES AND RESPONSIBILITIES SHARED OR EXCLUSIVE
- ADDITIONAL TASKS AND SERVICES AGAINST:
 - Environmental
 - Operational health & safety
 - Coal haul road maintenance & management
 - Coal processing and stockpile management
 - Training programs
 - Mine closure

ORGANISATION STRUCTURE - TYPICAL



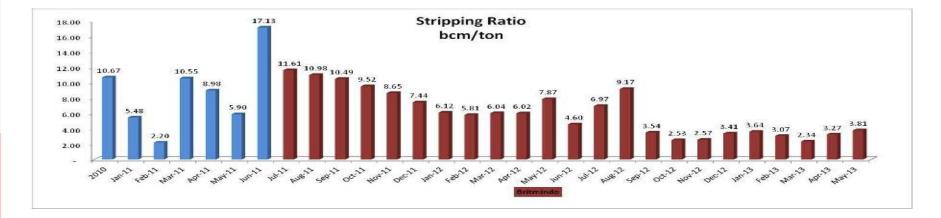
Included in the Services are:-	Excluded in the Service are:-
1. Personnel as stated	1. Office and Office supplies
2. Personnel mobilization and demobilization cost.	2. Light Vehicles and fuel
3. Salaries, THR, Annual bonus, Travel, Leave	3. Power, communications, radios.
4. Life & Medivac Insurance	4. Messing, meals and accommodation
5. Mine planning software/Survey equipments	5. Mess & Office Furnishings
6. Computer hardware	5. Payments to third parties
7. Personal safety Equipment	6. Security at the mine
8. Bedding, Personal Linen	7. Stationary and other operating
9. Topographic survey equipments	Consumables
	8. Relevant GOI PPn Tax

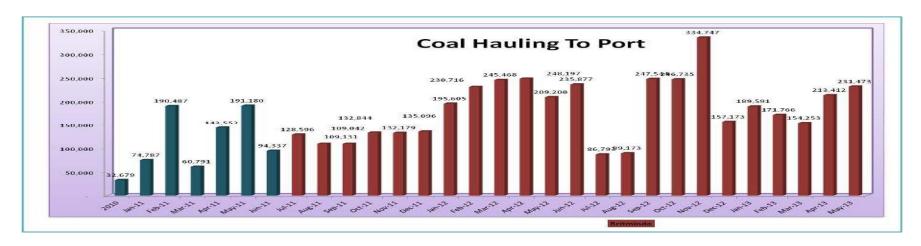
MINE MANAGEMENT SERVICES

- PRE-PRODUCTION SERVICES ARE BASED UPON FIXED RATES AGAINST:
 - SITF VIST REVIEW
 - DATA COLLECTION & EVALUATION
 - PRE-PRODUCTION MINE PLANNING LoM, ANNUAL, MONTHLY
 - EQUIPMENT SELECTION
 - CONTRACTOR TENDER PROCESS (IF REQUIRED)
- MINE MANAGEMENT VARIABLE RATES CAN BE APPLIED AGAINST EITHER:
 - COAL PRODUCTION ACHIEVEMENT
 - OVERBURDEN REMOVAL ACHEIVEMENT
 - OR ALTERNATIVELY, AGREED FIXED MONTHLY FEE AGAINST MANPOWER AT SITE
- VARIATIONS AGAINST INCLUSIONS/EXCLUSIONS OF SERVICES
- GENERAL TERM IS MINIMUM 24 MONTHS FROM COMMENCEMENT OF PRODUCTION

MINE MANAGEMENT HIGHLIGHTS

- SUCCESSFULLY ESTABLISHED A GREENFIELD MINE FOR A LARGE INDONESIAN CONTRACTOR RAMPING PRODUCTION UP TO 2,500,000MT PER ANNUM
- SUCESSFULLY RAMPED UP PRODUCTION WHILST REDUCING STRIP RATIO AND NUMBER OF CONTRACTORS AFTER BEING APPOINTED TO TAKE OVER THE MANAGEMENT OF AN EXISTING OPERATION.





MINE MANAGEMENT HIGHLIGHTS

- SUCCESSFULLY IMPROVED THE PRODUCTIVITY OF APPOINTED CONTRACTORS AT A LARGE SCALE MINE IN EAST KALIMANTAN FOR MULTINATIONAL MINE OWNER
- ACTED AS TECHNICAL CONSULTANTS FOR LARGE CLIENT TO SECURE INVESTMENT CAPITAL FOR DEVELOPMENT OF DEDICATED PORT FACILITIES
- CONTINUES TO PROVIDE TRAINING SERVICES FOR MAINTENANCE PLANNING AND WORK SHOP
 MANAGEMENT FOR MEDIUM SIZE CONTRACTOR IN KALIMANTAN

OUR CLIENT LIST FOR MANAGEMENT/CPP SERVICES INCLUDE:

PT MANDIRI INTI PERKASA PT MANDALA KARYA PERKASA

PT TRIDENT MANAGEMENT(AUSTRALIA) PT GOLDEN ENERGY MINES

PT INDOMINCO MANDIRI APPOLONIUS (INDIA)

PT ALASANIE PT RATU SAMBAN

PT INDOASIA CEMERLANG REA HOLDINGS LTD (UK)

PT BHORUKA POWER PT TUNAS INTI ABADI

PT ROBINDO NATARAYA STX CORPORATION (KOREA)

INDOMINES LTD (AUSTRALIA) KPF (KOREA)

PT GLOBALINDO INTI ENERGY TRIAS GROUP (CHINA)

PT ARTAMULIA TATAPRATAMA PT SEW TRISULA GLOBAL (INDIA)

PT SAMAKTA NUSAPHALA PT BERKAT TUJUH SAUDARA

PT MORISS PT PERMATA RESOURCES TBK

PT BAMAS SEJAHTERA PT ENERGY ALAM

BENEFITS OF MINE MANAGEMENT

- ABILITY TO PROVIDE SKILLED, EDUCATED, EXPERIENCED MINING PERSONNNEL
- ABILITY TO PROVIDE CLEAR & CONCISE REPORTS TO THE CLIENT
- KNOWLEDGE AND IMPLIMENTATION OF MINING PRACTICES IN LINE WITH PREVAILING MINING LAWS AND REGULATIONS PERTAINING TO:-
 - KEPMEN 555
 - ENVIRONMENTAL REGULATIONS
 - FORSTRY REQUIREMENTS
 - GOVERNMENT REPORTING SYSTEMS
- ABLE TO ADJUST MINE PLANS AND PRODUCTION SCHEDULES TO SUIT MARKET CONDITIONS
- REDUCE HRD AND MANPOWER RECRUITMENT COSTS TO IUP MINE OWNERS & CONTRACTORS
- DUAL LANGUAGE REPORTING SYSTEMS TO CLIENT AGAINST DAILY, WEEKLY, MONTHLY AND ANNUAL PRODUCTION
- FLEXIBLE TERMS FOR CLIENTS
- SAFETY ORIENTATED AND FOCUSED ON ACHIEVEMENT OF PRODUCTION TARGETS
- ON SITE MINE PLANNING
- CONTRACT MANAGEMENT

PLEASE FEEL FREE TO ASK QUESTIONS FOR PANEL DISCUSSION

THANKYOU



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