

TOTAL COST ( SHOVEL AND 2 DUMPER)	2050999,988	EUR /YEAR
TOTAL PRODUCTION	2907115	M3 / YEAR
DRAGLINE COST PER M3	0,71	EUR
IN INR	71	INR

TOTAL PRODUCTION	2907115	M3 / YEAR
simple	2907115	m3 /year
Density 1.6	4651383,398	ton / year
recoverable ore ( stripping raio 7:1)	660496,4426	ton ore ( P2O5)
Ore Cost (arround 10 eur per ton)	6604964,426	eur/year
PROFIT GENRATED BY DRRAGLINE	4553964,438	EUR /YEAR

SHOVEL	Komatsu PC1000-1		production in m3/ time
1	BUCKET CAP(M3)	5,4	
2	cycle time (Sec)	27	
3	BF FACTOR	1,15	
4	SWELL FACTOR	1,2	
5	AVALIBILITY	0,73	
6	UTLIZATION	0,695833333	
7	Machine travel and positioning factor (M)	1	
8	TIME PER SHIFT ( 8 hour per shift)	8	504,7074
9	number of shift per day ( 3 shift per day)	3	4037,6592
10	total working day in year (240 working day)	240	12112,9776
	production in a year in m3	2907115	2907115

truck	Komatsu HD785-7	2 Dumper	time (sec)
loading	11,11111111		300
Haul	202	10 km/h	73
dump			52
return		15km/h	50
spotting and waiting			125
			600

VD	20		
hd	200	RAMP GRDEIENT 10% as per dgms reg	
capecity	60		

	COST	LIFE IN YEAR	TOTAL ALL
Komatsu PC1000-1	700000	10	665380
Komatsu HD785-7 X 2	1800000	17	1385620

	Associate costs	Komatsu PC1000-1	Komatsu HD785-7 X 2	
<b>A</b>	<b>COST OF OWNERSHIP</b>	700000	1800000	
	i )Equipment cost	700000	1800000	
	ii) Depreciation cost for 5.68 (@4 % annual)	28000	72000	
	iii)yearly coo (Average yearly investment =(N+1 * cost of EQUIPMENT)/ 2N )	384134,80	952665,12	
	iv) yearly intrest, insurance and tax (@15% year)	57620,22	142899,768	
	<b>COST OF OWNERSHIP (ii+iv)</b>	<b>85620,22</b>	<b>214899,768</b>	EUR/YEAR
<b>B</b>	<b>OPERATING COST PER YEAR</b>			
	A. MANPOWER			
	I) OPERATOR COST -3 OPERATOR 600 EURO MONTHLY			
	2160000	21600	43200	EUR/YEAR
	II) HELPER -3 OPERATOR 400 EURO MONTHLY			
	1440000	14400	28800	EUR/YEAR
	<b>TOTAL</b>	<b>36000</b>	<b>72000</b>	
	B. POWER AND CONSUMPTION			
	I) POWER REQUIREMENT			
	PER HOUR	70	140	litre
		403200	806400	euro/year
	<b>TOTAL</b>	<b>403200</b>	<b>806400</b>	EUR/YEAR
	C. Lubrication cost(@30 % of power)	120960	241920	EUR/YEAR
	D. MAINTAINANCE COST( 20% OF DEPRECIATION)	5600	14400	EUR/YEAR
	E. BREAKDOWN COST (2% OF COST OF EQUIP)	14000	36000	EUR/YEAR
	<b>TOTAL ALL</b>	<b>665380,22</b>	<b>1385619,768</b>	EUR/YEAR