2. Details of Variable Cost

(Step 1, 1.0 MT)

Variable Cost

Cost Center: Material Yard 1.0 — MT Production 2,364.3 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Ore fine (Sinter)	$1,052.4 \times 10^3$ t	112	117,869		
Manganese ore fine (Sinter)	45.7×10^3 t	183	8,363		
High grade ore (BF)	173.3×10^3 t	142	24,609		
Low grade ore (BF)	403.2×10^3 t	135	54,432		
Ore (BOF)	32.0×10^3 t	145	4,640		
Lime stone (Sinter)	165.3×10^3 t	190	31,407		
Lime stone (BF)	42.0×10^3 t	190	7,980		
Lime stone (BOF)	233.0×10^3 t	250	58,250		
Dolomite stone (Sinter)	164.0×10^3 t	195	31,980		
Dolomite stone (BOF)	23.8×10^3 t	200	4,760		
Quartzite (Sinter)	29.6×10^3 t	155	4,588		
(Material cost total)	($2,364.3 \times 10^3$ t)		(348,878)		
Electricity	$11,822 \times 10^3$ kwH		4,114	5.0 kwH/t	1.74
(Utilities total)			(4,114)		(1.74)
Variable cost total	$2,364.3 \times 10^3$ t		352,992		

Variable Cost

Cost Center: Sintering 1.0 — MT Production 1,344.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Ore fine	$1,052.4 \times 10^3$ t	113.32	119,259	783 kg/t	
* Mang. ore fine	45.7×10^3 t	185.16	8,462	34 kg/t	
* Lime stone	165.3×10^3 t	192.24	31,777	123 kg/t	
* Dolomite stone	164.0×10^3 t	197.30	32,357	122 kg/t	
* Quartzite	29.6×10^3 t	156.82	4,642	22 kg/t	
Flue dust	26.3×10^3 t	67	1,762	20 kg/t	
Quick lime fine	13.3×10^3 t	—	—	10 kg/t	
(Material cost total)	($1,497.3 \times 10^3$ t)		(198,259)		(147.51)
Coke breeze	121.0×10^3 t	422	51,062	90 kg/t	37.99
Gas	$67,200 \times 10^6$ kcal		7,594	50×10^3 kcal/t	
Electricity	$53,760 \times 10^3$ kwH		18,709	40.0 kwH/t	
Industrial water	671×10^6 ℓ		503	0.5×10^3 ℓ/t	
(Utilities total)			(26,806)		(19.95)
Variable cost total	$1,344.0 \times 10^3$ t		276,127		205.45

Variable Cost

Cost Center: Coke Oven 1.0 – MT Production BF Coke 792.2 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Coal (prime)	665.5×10^3 t	675	449,213		
Coal (medium)	399.3×10^3 t	613	244,771		
Coal (blendable)	133.1×10^3 t	473	62,956		
Coal (Australia)	133.1×10^3 t	1,020	135,762		
(Coal total)	($1,331.0\times10^3$ t)	(670.7)	(892,702)		(1,126.87)
By-product (gas)	(–) $1,463,776\times10^6$ kcal		(–) 165,407		
By-product (coak breeze)	(–) 198.1×10^3 t	422	(–) 83,598		
By-product (others)			(–) 46,715		
(By-product total)			(–) 295,720)		((–) 373.29)
(Material cost total)			596,982)		(753.58)
Gas	$859,826\times10^6$ kcal		97,160	646×10^3 kcal/t	
Electricity	$35,937\times10^3$ kwH		12,506	27.0 kwH/t	
Steam	612,260 t		57,160	0.461 t/t	
Industrial water	$1,331\times10^6$ ℓ		998	1.0×10^3 ℓ/t	
Nitrogen	333×10^3 Nm^3		85	0.25 Nm^3/t	
(Utilities total)			(167,909)		(211.95)
Absorbant oil	399 t	3,027	1,208		1.52
Variable cost total	BF coke 792.2×10^3 t		766,099		967.05
By-product (screening) (coke breeze)	(–) 79.2×10^3 t	422	(–) 33,422		
Variable cost total	Lump coke 713.0×10^3 t		732,677		1,027.60
For BF	672.0×10^3 t		690,546		1,027.60
For sales	41.0×10^3 t		42,131		1,027.60

Variable Cost

Cost Center: Blast Furnace (1) 1.0 – MT Production 1,050.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Coke	672.0×10^3 t	1,027.60	690,546		
* Sinter	$1,344.0\times10^3$ t	205.45	276,127		
* H. grade ore	173.3×10^3 t		24,899		
* L. grade ore	403.2×10^3 t		55,074		
Scrap (iron)	14.7×10^3 t	1,830	26,901		
* Lime stone	42.0×10^3 t		8,074		
Other sub-material			17,640		
(Main & sub material)			(1,099,261)		(1,046.91)
By-product (slag)	(–) 493.5×10^3 t	237	(–) 116,960		
By-product (dust)	(–) 26.3×10^3 t	67	(–) 1,762		
By-product (skull)	(–) 7.6×10^3 t	1,220	(–) 9,518		
By-product (gas)	(–) $1,757,220\times10^6$ kcal		(–) 198,566		
(By-product total)			((–) 326,804)		((–) 311.24)
(Material cost total)			(772,457)		(735.67)
Electricity (blower)	$115,500\times10^3$ kwH		40,195	110.0 kwH/t	
Indust. water (blower)	16×10^6 ℓ		12	0.015×10^3 ℓ/t	
Electricity	$40,950\times10^3$ kwH		14,252	39.0 kwH/t	
Gas	$646,800\times10^6$ kcal		73,088	616×10^3 kcal/t	
Steam	48 300 t		4,509	0.046 t/t	
Nitrogen	$5,250\times10^3$ Nm^3		1,342	5.0 Nm^3/t	
Industrial water	$3,150\times10^6$ ℓ		2,360	3.0×10^3 ℓ/t	
(Utilities total)			(135,758)		(129.30)
Hot metal Variable cost total	$1,050.0\times10^3$ t	—	908,215	—	864.97

Variable Cost

Cost Center: Blast Furnace (2) 1.0 — MT Production 1,029.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	$1,050.0 \times 10^3$ t	864.97	908,215		882.62
By-product (iron scrap)	(–) 17.9×10^3 t	1,830	(–) 32,757		
By-product (skull)	(–) 3.1×10^3 t	1,220	(–) 3,782		
(By-product total)	((–) 21.0×10^3 t)		((–) 36,538)		((–) 35.51)
Variable cost total	$1,029.0 \times 10^3$ t		871,676		847.11
For BOF	966.4×10^3 t		818,647		847.11
For cold pig	62.6×10^3 t		53,029		847.11

Variable Cost

Cost Center: Cold Pig Iron 1.0 — MT Production 62.6 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	62.6×10^3 t	847.11	53,029		847.11
Electricity	313×10^3 kwH		109	5.0 kwH/t	
Industrial water	12×10^6 ℓ		9	0.2×10^3 ℓ/t	
(Utilities total)			(118)		(1.88)
Variable cost total	62.6×10^3 t		53,147		848.99
For BOF	23.3×10^3 t		19,782		848.99
For sales	39.3×10^3 t		33,365		848.99

Variable Cost

Cost Center: Burnt Lime 1.0 – MT Production 120.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Lime stone	233.0×10^3 t		58,937		491.14
Nitrogen	3×10^3 Nm^3		1	0.02 Nm^3/t	
Industrial water	106×10^6 ℓ		79	0.8×10^3 ℓ/t	
Gas	$135,261 \times 10^6$ kcal		15,284	$1,017 \times 10^3$ kcal/t	
Electricity	$8,645 \times 10^3$ kwH		3,009	65.0 kwH/t	
(Utilities total)			(18,373)		(153.11)
Refractory (brick)	40 t	4,000	160	0.33 kg/t	1.33
Variable cost total			77,470		645.58

Variable Cost

Cost Center: Dolomite 1.0 – MT Production 10.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Dolomite stone	23.8×10^3 t		4,816		481.60
Electricity	285×10^3 kwH		99	28.48 kwH/t	
Industrial water	3×10^6 ℓ		2		
Steam	2,200 t		205	0.22 t/t	
Gas	$25,000 \times 10^6$ kcal		2,825	$2,500 \times 10^3$ kcal/t	
(Utilities total)			(3,131)		(313.10)
Refractory			570		57.00
Variable cost total	10.0×10^3 t		8,517		851.70

Variable Cost

Cost Center: Basic Oxygen Furnace (LD) 1.0 – MT Production molten steel 1,036.3x1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	966.4x10³ t	847.11	818,647	932.6 kg/t	
* Cold pig iron	23.3x10³ t	848.99	19,782	22.5 kg/t	
Scrap (return)	168.4x10³ t	1,877	316,094	168.5 kg/t	
Scrap (purchase)	6.3x10³ t	2,030	12,789		
(Main material cost)	(1,164.4x10³ t)		(1,167,312)	(1,123.7 kg/t)	(1,126.42)
* Burnt lime	120.0x10³ t	645.58	77,470	115.8 kg/t	
* Ore	32.0x10³ t	146.72	4,695	30.9 kg/t	
* Burnt dolomite	10.0x10³ t	851.70	8,517	9.7 kg/t	
Fluospar	4.0x10³ t	4,007	16,028	3.9 kg/t	
Ferro-manganese	8.8x10³ t	7,800	68,640	8.5 kg/t	
Ferro-silicon	1.5x10³ t	13,800	20,700	1.4 kg/t	
Alminium	0.2x10³ t	23,300	4,660	0.2 kg/t	
Coke (breeze)	0.7x10³ t	2,684	1,879	0.7 kg/t	
(Sub-material)	(177.2x10³ t)		(202,589)		(195.49)
By-product (steel scrap)	(–) 12.0x10³ t	2,030	(–) 24,360		
By-product (skull)	(–) 8.0x10³ t	1,220	(–) 9,760		
By-product (gas)	(–) 166,202x10⁶ kcal		(–) 18,780		
(By-product total)			((–) 52,900)		((–) 51.05)
(Material cost total)			(1,317,001)		(1,270.86)
Oxygen	68,396x10³ Nm³		17,483	66.0 Nm³/t	
Nitrogen	9,327x10³ Nm³		2,384	9.0 Nm³/t	
Gas	20,726x10⁶ kcal		2,342	20x10³ kcal/t	
Electricity	31,089x10³ kwH		10,819	30.0 kwH/t	
Industrial water	311x10⁶ ℓ		233	0.3x10³ ℓ/t	
(Utilities total)			(33,261)		(32.10)
Main brick	520 t	4,000	2,080	0.50 kg/t	
Furnace brick	12,300 t	7,450	91,635	11.9 kg/t	
Ladle brick	450 t	1,200	540	0.43 kg/t	
(Refractory total)			(94,255)		(90.95)
Molten Steel Variable cost total	1,036.3x10³ t		1,444,517		1,393.92
For ingot casting	531.0x10³ t		740,170		1,393.92
For BL-1 CC	297.0x10³ t		413,994		1,393.92
For BT-1 CC	208.3x10³ t		290,353		1,393.92

Variable Cost

Cost Center: Ingot Casting 1.0 – MT Production 515.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	531.0x10³ t	1,393.92	740,170		1,437.22
By-product (skull)	(–) 5.3x10³ t	1,220	(–) 6,466		
By-product (steel)	(–) 10.7x10³ t	2,030	(–) 21,721		
(By-product total)	((–) 16.0x10³ t		((–) 28,187)		((–) 54.73)
(Material cost total)			(711,983)		(1,382.49)
Ladle brick	2,369 t	2,077	4,920	4.6 kg/t	9.55
Sliding nozzle	309 t	59,200	18,293	0.6 kg/t	35.52
(Refractory total)			(23,213)		(45.07)
Al-shot	51.5 t	23,300	1,200	0.1 kg/t	2.33
Ingot mould	11,330 t	6,206	70,314	22.0 kg/t	136.53
Bottom plate	1,803 t	6,408	11,554	3.5 kg/t	22.43
Electricity	1,030x10³ kwH		358	2.0 kwH/t	
Gas	4,120x10⁶ kcal		466	8x10³ kcal/t	
Oxygen	52x10³ Nm³		13	0.1 Nm³/t	
(Utilities total)			(837)		(1.64)
Variable cost total	515.0x10³ t		819,101		1,590.49
For blooming mill	515.0x10³ t		819,101		1,590.49

Variable Cost

Cost Center: BL-1 CC 1.0 – MT Production 285.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	297.0x10³ t	1,393.92	413,994		1,452.61
By-product (steel)	(–) 5.1x10³ t	2,030	(–) 10,353		
By-product (skull)	(–) 4.5x10³ t	1,220	(–) 5,490		
By-product (scale)	(–) 2.4x10³ t	30	(–) 72		
(By-product total)	((–) 12.0x10³ t		((–) 15,915)		((–) 55.84)
(Material cost total)			(398,079)		(1,396.77)
Ladle brick	1,653 t	2,077	3,433	5.8 kg/t	
Sliding nozzle	85.5 t	59,200	5,062	0.3 kg/t	
Fire clay brick	1,140 t	2,077	2,368	4.0 kg/t	
Castable (Hi-Al)	712.5 t	3,800	2,708	2.5 kg/t	
Nozzle (zircon)	34.2 t	61,500	2,103	0.12 kg/t	
(Refractory total)			(15,674)		(55.0)
LPG	142.5x10³ Nm³	5,434/10³	774	0.5 m³/t	
Rapeseed oil	34,200 ℓ	11.3	386	120 cc/t	
Copper monid	5,700 kg	430	2,451	20 g/t	
Al wire	—	—	—	—	
Burnt paddy	85,500 kg	4.9	419	0.3 kg/t	
Tips	9,120 p	17.4	159	0.032 p/t	
(Sub-material total)			(4,189)		(14.71)
Electricity	2,850x10³ kwH		992	10.0 kwH/t	
Industrical water	114x10⁶ ℓ		85	0.4x10³ ℓ/t	
Gas	5,130x10⁶ kcal		580	18x10³ kcal/t	
Oxygen	456x10³ Nm³		117	1.6 Nm³/t	
Nitrogen	114x10³ Nm³		29	0.4 Nm³/t	
(Utilities total)			(1,803)		(6.31)
Variable cost total	285.0x10³ t		419,745		1,472.79
For blooming mill	285.0x10³ t		419,745		1,472.79

Variable Cost

Cost Center: BT-1 CC 1.0 – MT Production 200.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	208.3x10³ t	1,393.92	290,353		1,451.77
By-product (steel)	(–) 3.5x10³ t	2,030	(–) 7,105		
By-product (skull)	(–) 3.1x10³ t	1,220	(–) 3,782		
By-product (scale)	(–) 1.7x10³ t	30	(–) 51		
(By-product total)	((–) 8.3x10³ t)		((–) 10,938)		((–) 54.69)
(Material cost)			(279,415)		(1,397.08)
Ladle brick	1,160 t	2,077	2,409	5.8 kg/t	
Sliding nozzle	120 t	59,200	7,104	0.6 kg/t	
Fire clay brick	1,200 t	2,077	2,492	6.0 kg/t	
Castable (Hi-Al)	900 t	3,800	3,420	4.5 kg/t	
Nozzle (zircon)	18 t	61,500	1,107	0.09 kg/t	
(Refractory total)			(16,532)		(82.66)
LPG	—	—	—	—	
Rapeseed oil	24,000 ℓ	11.3	271	120 cc/t	
Copper mould	4,000 kg	430	1,720	20 g/t	
Al wire	20.0 t	23,300	466	100 g/t	
Burnt paddy	60,000 kg	4.9	294	0.3 kg/t	
Tips	6,400 p	17.4	111	0.032 p/t	
(Sub-material total)			(2,862)		(14.31)
Electricity	2,000x10³ kwH		696	10.0 kwH/t	
Industrial water	80x10⁶ ℓ		60	0.4x10³ ℓ/t	
Gas	3,600x10⁶ kcal		407	18x10³ kcal/t	
Oxygen	20x10³ Nm³		5	0.1 Nm³/t	
Nitrogen	80x10³ Nm³		20	0.4 Nm³/t	
(Utilities total)			(1,188)		(5.94)
Variable cost total	200.0x10³ t		299,997		1,499.99
For No.1 New Bar	200.0x10³ t		299,997		1,499.99

Variable Cost

Cost Center: Blooming mill 1.0 – MT Production 756.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Ingot steel	515.0x10³ t	1,590.49	819,101		(1,728.06)
By-product (scale)	(–) 15.4x10³ t	30	(–) 462		
By-product (scrap)	(–) 25.6x10³ t	2,030	(–) 51,968		
(By-product total)	((–) 41.0x10³ t		((–) 52,430)		((–) 110.61))
(Material cost)	(474.0x10³ t)		(766,671)		((1,617.45))
* Cast bloom	285.0x10³ t	1,472.74	419,745		(1,488.45)
By-product (scale)	(–) 1.2x10³ t	30	(–) 36		
By-product (scrap)	(–) 1.8x10³ t	2,030	(–) 3,654		
(By-product total)	((–) 3.0x10³ t)		((–) 3,690)		((–) 13.08))
(Material cost)	(282.0x10³ t)		(416,055)		((1,475.37))
Roll	52,920 kg	20	1,058	0.07 kg/t	1.40
Consumables	—	—	4,113	—	5.44
Gas	334,908x10⁶ kcal		37,845	443x10³ kcal	
Electricity	18,734x10³ kwH		6,520	24.78 kwH/t	
Industrial water	302x10⁶ ℓ		226		
(Utilities total)			(44,591)		(58.98)
Variable cost total	756.0x10³ t		1,232,488		1,630.29
For billet mill	480.0x10³ t		807,120		1,681.50
For HSM	276.0x10³ t		425,368		1,541.19

Variable Cost

Cost Center: Billet mill 1.0 – MT Production 453.6 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Bloom	480.0x10³ t	1,681.50	807,120		1,779.36
By-product (scale)	(–) 4.8x10³ t	30	(–) 144		
By-product (scrap)	(–) 21.6x10³ t	2,030	(–) 43,848		
(By-product total)	((–) 26.4x10³ t		((–) 43,992)		((–) 96.98)
(Material cost)			(763,128)		(1,682.38)
Roll	68,040 kg	25	1,701	0.15 kg/t	3.75
Consumables	—	—	4,282	—	9.44
Electricity	12,020x10³ kwH		4,183	26.5 kwH/t	
Industrial water	327x10⁶ ℓ		245		
(Utilities total)			(4,428)		(9.76)
Variable cost total	453.6x10³ t		773,538		1,705.33
For sheet bar	127.0x10³ t		216,577		1,705.33
For merchant	261.0x10³ t		445,092		1,705.33
For No.1 New Bar	60.0x10³ t		102,320		1,705.33
For sales	5.6x10³ t		9,550		1,705.33

Variable Cost

Cost Centre: Sheet mill 10 – MT Production 100.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Sheet bar	127.0x10³ t	1,705.33	216,577		2,165.77
By-product (scale)	(–) 0.5x10³ t	30	(–) 15		
By-product (scrap)	(–) 26.5x10³ t	2,030	(–) 53,795		
(By-product total)	((–) 27.0x10³ t		((–) 53,810)		((–) 538.10)
(Material cost)			(162,767)		(1,627.67)
Roll	265,000 kg	20	5,300	2.65 kg/t	53.00
Consumables	—	—	420	—	4.2
Gas	140,000x10⁶ kcal		15,820	1,400x10³ kcal/t	
Electricity	20,110x10³ kwH		6,998	201.1 kwH/t	
Industrial water	—	—	—	—	
Steam	30,000 t		2,801	0.3 t/t	
(Utilities total)			(25,619)		(256.19)
Variable cost total	100.0x10³ t		194,106		1,941.06
For galvanized sheet	30.0x10³ t		58,232		1,941.06
For sales (black sheet)	70.0x10³ t		135,874		1,941.06

Variable Cost

Cost Center: Galvanized Sheet 1.0 – MT Production 30.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Black sheet	30.0x10³ t	1,941.06	58,232		1,941.06
Spelter	2,452.5 t	29,500	72,349	81.75 kg/t	2,411.63
By-product (zinc dross)	(–) 270 t	19,000	(–) 5,130		
By-product (skimming)	(–) 188 t	2,600	(–) 489		
(By-product total)	((–))		((–) 5,619)		((–) 187.29)
Consumables	—	—	720	—	24.00
Industrial water	160x10⁶ ℓ		120		4.00
(Utilities total)			(120)		(4.00)
Variable cost total	30.0x10³ t	—	125,802	—	4,193.40
For sales	30.0x10³ t	—	125,802	—	4,193.40

Variable Cost

Cost Center: Merchant & Bar 1.0 — MT Production 250.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Billet	261.0x10³ t	1,705.33	445,092		1,780.37
By-product (scale)	(—) 5.2x10³ t	30	(—) 156		
By-product (scrap)	(—) 5.8x10³ t	2,030	(—) 11,774		
(By-product total)	((—) 11.0x10³ t)		((—) 11,930)		((—) 47.72)
(Material cost)			(433,162)		(1,732.65)
Roll	55,000 kg	28	1,540	0.22 kg/t	6.16
Consumables	—	—	5,325	—	21.30
Gas	100,000x10⁶ kcal		11,300	400x10³ kcal/t	
Electricity	15,025x10³ kwH		5,229	60.1 kwH/t	
Industrial water	35x10⁶ ℓ		26		
Steam	40,000 t		3,734	0.16 t/t	
(Utilities total)			(20,289)		(81.15)
Variable cost total	250.0x10³ t		460,316		1,841.26
For sales	250.0x10³ t		460,316		1,841.26

Variable Cost

Cost Center: No.1 New Bar 1.0 — MT Production 254.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Cost billet (BT CC-1)	200.0x10³ t	1,499.99	299,997		
* Billet	60.0x10³ t	1,705.33	102,320		
(Total)	(260.0x10³ t)	(1,549.32)	(402,317)		(1,583.92)
By-product (scale)	(—) 2.6x10³ t	30	(—) 78		
By-product (scrap)	(—) 3.4x10³ t	2,030	(—) 6,902		
(By-product total)	((—) 6.0x10³ t)		((—) 6,980)		((—) 27.48)
(Material cost)			(395,337)		(1,556.44)
Roll	76,200 kg	28	2,134	0.3 kg/t	8.40
Consumables	—	—	5,410	—	21.30
Gas	68,580x10⁶ kcal		7,750	270x10³ kcal/t	
Electricity	22,860x10³ kwH		7,955	90.0 kwH/t	
Industrial water	127x10⁶ ℓ		95	0.5x10³ ℓ/t	
(Utilities total)			(15,800)		(62.21)
Variable cost total	254.0x10³ t	—	418,681	—	1,648.35
For sales	254.0x10³ t	—	418,681	—	1,648.35

Variable Cost

Cost Center: Heavy Structural 1.0 – MT Production 250.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Bloom	276.0x10³ t	1,541.19	425,368		1,701.47
By-product (scale)	(–) 6.4x10³ t	30	(–) 162		
By-product (scrap)	(–) 20.6x10³ t	2,030	(–) 41,818		
(By-product total)	((–) 26.0x10³ t)		((–) 41,980)		((–) 167.92)
(Material cost)			(383,388)		(1,533.55)
Roll	375,000 kg	20	7,500	1.5 kg/t	30.00
Consumables	—	—	6,763	—	27.05
Gas	100,000x10⁶ kcal		11,300	400x10³ kcal/t	
Electricity	29,850x10³ kwH		10,318	118.6 kwH/t	
Industrial water	220x10⁶ ℓ		615		
Steam	32,500 t		3,034	0.13 t/t	
(Utilities total)			(24,817)		(99.27)
Variable cost total	250.0x10³ t	—	422,468	—	1,689.87
For sales	250.0x10³ t	—	422,468	—	1,689.87

Variable Cost

Cost Center: Power Plant (own) 1.0 – MT Generation 386,543 x 10³ kwH

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Gas	773,085x10⁶ kcal	113	87,359		
Industrial water	2,319x10⁶ ℓ	0.749	1,736		
Electricity	3,865x10³ kwH	0.348	1,347		
Variable cost total	386,543x10³ kwH		90,444		0.234

Variable Cost

Cost Center: Power Distribution 1.0 – MT

Purchase 153,405 x 10³ kwH
Own Gene. 386,543 x 10³ kwH
Distribution 514,236 x 10³ kwH

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Purchased	153,405x10³ kwH	0.577	88,515		
Own	386,543x10³ kwH	0.234	90,444		
(Total)	(539,948x10³ kwH)	(0.331)	(178,959)		
Variable cost total	514,236x10³ kwH		178,959		0.348

Variable Cost

Cost Center: Industrial Water 1.0 — MT Distribution 10,084 x 10^6 ℓ

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	4,467x10^3 kwH	0.348	1,555		
Consumables			6,000		
Variable cost total	10,084x10^6 ℓ		7,555		0.749

Variable Cost

Cost Center: Steam 1.0 — MT Generatiun 883,875 t Distribution 845,612 t

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Coal	193,349 t	356	68,832		
Electricity	6,806x10^3 kwH	0.348	2,368		
Filtered water	796x10^6 ℓ	0.306	243		
Steam	80,352 t	93.35	7,499		
Variable cost total	845,612 t		78,942		93.35

Variable Cost

Cost Center: Filtered Water 1.0 — MT Distribution 9,466 x 10^6 ℓ

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	8,321x10^3 kwH	0.348	9,466		
Variable cost total	8,321x10^3 kwH		9,466		0.306

Variable Cost

Cost Center: Oxygen & Nitrogen 1.0 — MT Generation 84,836 x 10^3 Nm^3 Distribution 84,031 x 10^3 Nm^3

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	60,000x10^3 kwH	0.348	20,880		
Industrial water	800x10^6 ℓ	0.749	599		
Variable cost total	84,031x10^3 Nm^3		21,479		0.256

3. Details of Variable Cost

(Step 2, 2.15 MT)

Variable Cost

Cost Center: Material Yard 2.15 –MT Production 4,965.2x1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Ore fine (Sinter)	$2,204.9 \times 10^3$ t	112	246,949		
Manganese ore fine (Sinter)	95.7×10^3 t	183	17,513		
High grade ore (BF)	363.0×10^3 t	142	51,546		
Low grade ore (BF)	844.8×10^3 t	135	114,048		
Ore (BOF)	62.4×10^3 t	145	9,048		
Lime stone (Sinter)	346.4×10^3 t	190	65,816		
Lime stone (BF)	88.0×10^3 t	190	16,720		
Lime stone (BOF)	502.0×10^3 t	250	125,500		
Dolomite stone (Sinter)	343.6×10^3 t	195	67,002		
Dolomite stone (BOF)	52.4×10^3 t	200	10,480		
Quartzite (Sinter)	62.0×10^3 t	155	9,610		
(Material cost total)	($4,965.2 \times 10^3$ t)		(734,232)		
Electricity	$24,826 \times 10^3$ kwH		6,068	5 kwH/t	
(Utilities total)			(6,068)		
Variable cost total	$4,965.2 \times 10^3$ t	—	740,300	—	—

Variable Cost

Cost Center: Sintering 2.15 –MT Production 2,816.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Ore fine	$2,204.9 \times 10^3$ t	112.93	248,989	783 kg/t	
* Mang. ore fine	95.7×10^3 t	184.51	17,658	34 kg/t	
* Lime stone	346.4×10^3 t	191.57	66,360	123 kg/t	
* Dolomite stone	343.6×10^3 t	196.61	67,556	122 kg/t	
* Quartzite	62.0×10^3 t	156.27	9,689	22 kg/t	
Flue dust	55.0×10^3 t	67	3,685	20 kg/t	
Quick lime fine	28.7×10^3 t	—	—	10 kg/t	
(Material cost total)	($3,137.1 \times 10^3$ t)		(413,937)		(147.00)
Coke breeze	253.4×10^3 t	422	106,935	90 kg/t	37.97
Gas	$140,800 \times 10^6$ kcal		15,910	50×10^3 kcal/t	
Electricity	$112,640 \times 10^3$ kwH		27,533	40 kwH/t	
Industrial water	$1,408 \times 10^6$ ℓ		946	0.5×10^3 ℓ/t	
(Utilities total)			(44,389)		(15.76)
Variable cost total	$2,816.0 \times 10^3$ t	—	565,261	—	200.73

Variable Cost

Cost Center: Coke Oven — 2.15 –MT — BF Coke Production 1,438.8 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Coal (prime)	1,197.0x10³ t	675	807,975		
Coal (medium)	718.2x10³ t	613	440,257		
Coal (blendable)	239.4x10³ t	473	113,236		
Coal (Australia)	239.4x10³ t	1,020	244,188		
(Coal total)	(2,394.0x10³ t)	(670.7)	(1,605,656)		(1,115.97)
By-product (gas)	(–) 2,962,529x10⁶ kcal	113	(–) 334,766		
By-product (coak breeze)	(–) 359.7x10³ t	422	(–) 151,793		
By-product (others)			(–) 35,616		
(By-product total)			((–) 522,175)		((–) 362.93)
(Material cost total)			(1,083,481)		(753.04)
Gas	1,568,070x10⁶ kcal		177,192	655x10³ kcal/t	
Electricity	68,708x10³ kwH		16,794	28.7 kwH/t	
Steam	536,256 t		49,262	0.224 t/t	
Industrial water	4,309x10⁶ ℓ		2,896	1.8x10³ ℓ/t	
Nitrogen	599x10³ Nm³		108	0.25 Nm³/t	
(Utilities total)			(246,252)		(171.16)
Absorbent oil	718 t	3,027	2,173		1.51
Variable cost total	BF coke 1,438.8x10³ t		1,331,906		925.71
(screening) By-product (coke breeze)	(–) 142.8x10³ t	422	(–) 60,262		
Variable cost total	1,296.0x10³ t		1,271,644		981.21
For BF	1,296.0x10³ t		1,271,644		981.21
For sale	—		—		—

Variable Cost

Cost Center: Blast Furnace (1) — 2.15 –MT — Production 2,200.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Coke	1,296.0x10³ t	981.21	1,271,644	589 kg/t	
* Sinter	2,816.0x10³ t	200.73	565,251	1,280 kg/t	
* H. grade ore	363.0x10³ t	143.17	51,972	165 kg/t	
* L. grade ore	844.8x10³ t	136.12	114,991	384 kg/t	
Scrap (iron)	30.8x10³ t	1,830	56,364	14 kg/t	
* Lime stone	88.0x10³ t	191.57	16,858	40 kg/t	
Other sub-material	—	—	36,960	—	
(Main & sub material)			(2,114,050)		(960.93)
By-product (slag)	(–) 1,012.0x10³ t	237	(–) 239,844		
By-product (dust)	(–) 55.0x10³ t	67	(–) 3,685		
By-product (skull)	(–) 16.3x10³ t	1,220	(–) 19,886		
By-product (gas)	(–) 3,420,186x10⁶ kcal	113	(–) 386,481		
(By-product total)			((–) 649,896)		((–) 295.41)
(Material cost total)			(1,464,154)		(665.52)
Electricity (blower)	242,000x10³ kwH		59,152	110.0 kwH/t	
Indust. water (blower)	33x10⁶ ℓ		22	0.15x10³ ℓ/t	
Electricity	81,400x10³ kwH		19,897	37.0 kwH/t	
Gas	1,639,000x10⁶ kcal		185,207	745x10³ kcal/t	
Steam	101,200 t		9,298	0.046 t/t	
Nitrogen	11,000x10³ Nm³		1,981	5.0 Nm³/t	
Industrial water	6,150x10⁶ ℓ		4,140	2.8x10³ ℓ/t	
(Utilities total)			(279,697)		(127.14)
Hot metal					
Variable cost total	2,200.0x10³ t		1,743,851		792.66

Variable Cost

Cost Center: Blast Furnace (2) 2.15 —MT Production 2,156.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	$2{,}200\times10^3$ t	792.66	1,743,851		808.84
By-product (iron scrap)	(—) 37.4×10^3 t	1,830	(—) 68,442		
By-product (skull)	(—) 6.6×10^3 t	1,220	(—) 8,052		
(By-product total)	((—) 44.0×10^3 t)		((—) 76,494)		((—) 35.48)
Variable cost total	$2{,}156.0\times10^3$ t		1,667,357		773.36
For BOF (LD)	$2{,}080.0\times10^3$ t		1,608,582		773.36
For cold pig	76.0×10^3 t		58,775		773.36

Variable Cost

Cost Center: Cold Pig Iron 2.15 —MT Production 76.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	76.0×10^3 t	773.36	58,775		773.36
Electricity	388×10^3 kwH		95	5.0 kwH/t	
Industrial water	15×10^4 ℓ		10	0.2×10^3 ℓ/t	
(Utilities total)			(105)		(1.38)
Variable cost total	76.0×10^3 t		58,880		774.74
For BOF (LD)	50.0×10^3 t		38,737		774.74
For sales	26.0×10^3 t		20,143		774.74

Variable Cost

Cost Center: Burnt Lime 2.15 –MT Production 258.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Lime stone	502.0×10^3 t		126,537		490.45
Nitrogen	6×10^3 Nm^3		1	0.02 Nm^3/t	
Industrial water	230×10^6 ℓ		155	0.8×10^3 ℓ/t	
Gas	$291,879 \times 10^6$ kcal		32,982	$1,017 \times 10^3$ kcal/t	
Electricity	$18,655 \times 10^3$ kwH		4,560	65.0 kwH/t	
(Utilities total)			(37,698)		(146.12)
Refractory (brick)	86 t	4,000	344	0.33 kg/t	1.33
Variable cost total	258.0×10^3 t		164,579		637.90

Variable Cost

Cost Center: Dolomite 2.15 –MT Production 22.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Dolomite stone	52.4×10^3 t		10,567		480.32
Electricity	627×10^3 kwH		153	28.48 kwH/t	
Industrial water	5×10^6 ℓ		3		
Steam	4,840 t		445	0.22 t/t	
Gas	$55,000 \times 10^6$ kcal		6,215	$2,500 \times 10^3$ kcal	
(Utilities total)			(6,816)		(309.82)
Refractory	—	—	1,254	—	57.00
Variable cost total	22.0×10^3 t	–	18,637		847.14

Variable Cost (LD) Molten Steel

Cost Center: Basic Oxygen Furnace 2.15 –MT Production 2,229.6 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	2,080.0x10³ t	773.36	1,608,582	932.6 kg/t	
* Cold pig iron	50.0x10³ t	774.74	38,737	22.5 kg/t	
Scrap (return)	204.8x10³ t	174.5	357,424	} 168.5 kg/t	
Scrap (purchase)	171.0x10³ t	2,030	347,130		
(Main material cost)	(2,505.8x10³ t)		(2,351,873)	(1,123.6 kg/t)	(1,054.64)
* Burnt lima	258.0x10³ t	637.90	164,579	115.7 kg/t	
* Ore	62.4x10³ t	146.20	9,123	28.0 kg/t	
* Burn dolomite	22.0x10³ t	847.14	18,637	9.6 kg/t	
Fluospar	8.6x10³ t	4,007	34,460	3.9 kg/t	
Ferro-manganese	19.8x10³ t	7,800	154,440	8.9 kg/t	
Ferro-silicon	4.7x10³ t	13,800	64,860	2.1 kg/t	
Alminium	0.7x10³ t	23,300	16,310	0.3 kg/t	
Coke (breeze)	1.5x10³ t	2,684	4,026	0.7 kg/t	
(Sub-material)	(377.7x10³ t)		(466,435)		(209.20)
By-product (steel)	(–) 25.8x10³ t	2,030	(–) 52,374		
By-product (skull)	(–) 17.2x10³ t	1,220	(–) 20,984		
By-product (gas)	(–) 357,730x10⁶ kcal		(–) 40,423		
(By-product total)			((–) 113,781)		((–) 51.03)
(Material cost total)			(2,704,527)		(1,213.01)
Oxygen	147,154x10³ Nm³		26,486	66.0 Nm³/t	
Nitrogen	20,066x10³ Nm³		3,613	9.0 Nm³/t	
Gas	44,592x10⁶ kcal		5,039	20x10³ kcal/t	
Electricity	66,888x10³ kwH		16,349	30.0 kwH/t	
Industrial water	669x10⁶ ℓ		450	0.3x10³ ℓ/t	
(Utilities total)			(51,947)		(23.30)
Main brick	1,100 t	4,000	4,400	0.50 kg/t	
Furnace brick	26,400 t	7,450	196,680	11.9 kg/t	
Ladle brick	970 t	1,200	1,164	0.43 kg/t	
(Refractory total)			(202,244)		(90.71)
Molten steel Variable cost total	2,229.6x10³ t		2,958,718		1,327.02
For ingot casting	304.1x10³ t		403,546		1,327.02
For BL-1 cc	349.0x10³ t		463,129		1,327.02
For BT-1 cc	260.4x10³ t		345,555		1,327.02
For BT-2 & 3 cc	1,316.1x10³ t		1,746,488		1,327.02

Variable Cost

Cost Center: Ingot Casting 2.15 –MT Production 295.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	304.1x10³ t	1,327.02	403,546		1,367.95
By-product (skull)	(–) 3.0x10³ t	1,220	(–) 3,660		
By-product (steel)	(–) 6.1x10³ t	2,030	(–) 12,383		
(By-product total)	((–) 9.1x10³ t)		((–) 16,043)		((–) 54.38)
(Material cost total)			(387,503)		(1,313.57)
Ladle brick	1,357 t	2,077	2,818	4.6 kg/t	
Sliding nozzle	177 t	59,200	10,478	0.6 kg/t	
(Refractory total)			(13,296)		(45.07)
Al-shot	29.5 t	23,300	687	0.1 kg/t	2.33
Ingot mould	6,490 t	6,206	40,277	22.0 kg/t	136.53
Bottom plate	1,032.5 t	6,408	6,616	3.5 kg/t	22.43
Electricity	590x10³ kwH		144	2.0 kwH/t	
Gas	2,360x10⁶ kcal		267	8x10³ kcal/t	
Oxygen	30x10³ Nm³		5	0.1 Nm³/t	
(Utilities total)			(416)		(1.41)
Variable cost total	295.0x10³ t		448,795		1,521.34
For blooming mill	295.0x10³ t		448,795		1,521.34

Variable Costt

Cost Center: BL-1 cc 2.15 –MT Production 335.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	349.0x10³ t	1,327.02	463,129		1,382.47
By-product (steel)	(–) 6.0x10³ t	2,030	(–) 12,180		
By-product (skull)	(–) 5.2x10³ t	1,220	(–) 6,344		
By-product (scale)	(–) 2.8x10³ t	30	(–) 84		
(By-product total)	((–) 14.0x10³ t)		((–) 18,608)		((–) 55.54)
(Material cost total)			(444,521)		(1,326.93)
Ladle brick	1,943 t	2,077	4,036	5.8 kg/t	
Sliding nozzle	100.5 t	59,200	5,950	0.3 kg/t	
Fire clay brick	1,340 t	2,077	2,783	4.0 kg/t	
Castable (Hi-Al)	837.5 t	3,800	3,183	2.5 kg/t	
Nozzle (zircon)	40.2 t	61,500	2,472	0.12 kg/t	
(Refractory total)			(18,424)		(55.00)
LPG	167.5x10³ Nm³	5,434/10³	910	0.5 m³/t	
Rapeseed oil	40,200 ℓ	11.3	454	120 cc/t	
Copper mould	6,700 kg	430	2,881	20.0 g/t	
Al wire	—	—	—	—	
Burnt paddy	100,500 kg	4.9	492	0.3 kg/t	
Tips	10,720 P	17.4	187	0.032 P/t	
(Sub-material total)			(4,924)		(14.69)
Electricity	3,350x10³ kwH		819	10.0 kwH/t	
Industrial water	134x10⁶ ℓ		90	0.4x10³ ℓ/t	
Gas	6,030x10⁶ kcal		581	18x10³ kcal/t	
Oxygen	337x10³ Nm³		61	1.6 Nm³/t	
Nitrogen	134x10³ Nm³		24	0.4 Nm³/t	
(Utilities total)			(1,675)		(5.0)
Variable cost total	335.0x10³ t		469,544		1,401.62
For blooming mill	335.0x10³ t		469,544		1,401.62

Variable Cost

Cost Center: BT-1 cc 2.15 –MT Production 250.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	260.4x10³ t	1,327.02	345,555		1,382.22
By-product (steel)	(–) 4.4x10³ t	2,030	(–) 8,932		
By-product (skull)	(–) 3.9x10³ t	1,220	(–) 4,758		
By-product (scale)	(–) 2.1x10³ t	30	(–) 63		
(By-product total)	((–) 10.4x10³ t)		((–) 13,753)		((–) 55.01)
(Material cost)			(331,802)		(1,327.21)
Ladle brick	1,450 t	2,077	3,012	5.8 kg/t	
Sliding nozzle	150 t	59,200	8,880	0.6 kg/t	
Fire clay brick	1,500 t	2,077	3,116	6.0 kg/t	
Castable (Hi-Al)	1,125 t	3,800	4,275	4.5 kg/t	
Nozzle (zircon)	22.5 t	61,500	1,384	0.09 kg/t	
(Refractory total)			(20,667)		(82.67)
LPG	—	—	—	—	
Rapeseed oil	30,000 ℓ	11.3	339	120 cc/t	
Copper mould	5,000 kg	430	2,150	20.0 g/t	
Al wire	25 t	23,300	583	100.0 g/t	
Burnt paddy	75,000 kg	4.9	368	0.3 kg/t	
Tips	8,000 P	17.4	139	0.032 P/t	
(Sub-material total)			(3,579)		(14.31)
Electricity	2,500x10³ kwH		611	10.0 kwH/t	
Industrial water	100x10⁶ ℓ		67	0.4x10³ ℓ/t	
Gas	4,500x10⁶ kcal		509	18x10³ kcal/t	
Oxygen	25x10³ Nm³		5	1.0 Nm³/t	
Nitrogen	100x10³ Nm³		18	0.4 Nm³/t	
(Utilities total)			(1,210)		(4.84)
Variable cost total	250.0x10³ t		357,258		1,429.03
For Merchant & Bar	250.0x10³ t		357,258		1,429.03

Variable Cost

Cost Center: BT-2 & 3 cc 2.15 –MT Production 1,270.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	$1,316.0\times10^3$ t	1,327.02	1,746,488		1,375.19
By-product (steel)	(–) 15.7×10^3 t	2,030	(–) 31,871		
By-product (skull)	(–) 19.8×10^3 t	1,220	(–) 24,156		
By-product (scale)	(–) 10.6×10^3 t	30	(–) 318		
(By-product total)	((–) 46.1×10^3 t)		((–) 56,345)		((–) 44.37)
(Material cost)			(1,690,143)		(1,330.82)
Ladle brick	7,366 t	2,077	15,299	5.8 kg/t	
Sliding nozzle	254 t	59,200	15,037	0.2 kg/t	
Fire clay brick	6,350 t	2,077	13,189	5.0 kg/t	
Castable (Hi-Al)	3,937 t	3,800	14,961	3.1 kg/t	
Nozzle (Zircon)	63.5 t	61,500	3,905	0.05 kg/t	
(Refractory total)			(62,391)		(49.13)
LPG	381×10^3 Nm^3	5,434/10^3	2,070	0.3 m^3/t	
Rapeseed oil	152,400 ℓ	11.3	1,722	120 cc/t	
Copper mould	25,400 kg	430	10,922	20.0 g/t	
Al wire	127 t	23,300	2,959	100 g/t	
Burnt paddy	381,000 kg	4.9	1,867	0.3 kg/t	
Tips	40,640 P	17.4	707	0.032 P/t	
(Sub-material cost)			(20,247)		(15.94)
Electricity	$12,700\times10^3$ kwH		3,104	10.0 kwH/t	
Industrial water	508×10^6 ℓ		341	0.4×10^3 ℓ/t	
Gas	$20,320\times10^6$ kcal		2,296	16×10^3 kcal/t	
Oxygen	$1,270\times10^3$ Nm^3		229	1.0 Nm^3/t	
Nitrogen	508×10^3 Nm^3		91	0.4 Nm^3/t	
(Utilities total)			(6,061)		(4.77)
Variable cost total	$1,270.0\times10^3$ t		1,778,842		1,400.66
For No. 1 New Bar	615.0×10^3 t		861,408		1,400.66
For No. 2 New Bar	655.0×10^3 t		917,434		1,400.66

Variable Cost

Cost Center: Blooming Mill 2.15 –MT Production 603.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Ingot steel	295.0×10^3 t	1,521.34	448,795		(1,654.23)
By-product (scale)	(–) 8.9×10^3 t	30	(–) 267		
By-product (scrap)	(–) 14.8×10^3 t	2,030	(–) 30,044		
(By-product total)	((–) 23.7×10^3 t)		((–) 30,311)		((–) 111.72)
(Material cost)	(271.3×10^3 t)		(418,484)		((1,542.52))
* Cast bloom	335.0×10^3 t	1,401.62	469,544		(1,415.57)
By-product (scale)	(–) 1.3×10^3 t	30	(–) 39		
By-product (scrap)	(–) 2.0×10^3 t	2,030	(–) 4,060		
(By-product total)	((–) 3.3×10^3 t)		((–) 4,099)		((–) 12.36)
(Material cost)	(331.7×10^3 t)		(465,445)		((1,403.21))
Roll	36,180 kg	20	724	0.06 kg/t	1.20
Consumables	—	—	3,280	—	5.44
Gas	$230,346\times10^6$ kcal		26,029	382×10^3 kcal/t	
Electricity	$14,942\times10^3$ kwH		3,652	24.76 kwH/t	
Industrial water	241×10^6 ℓ		162		
(Utilities total)			(29,843)		(49.49)
Variable cost total	603.0×10^3 t		917,776		1,522.02
For billet mill (from ingot)	264.0×10^3 t		422,042		1,598.64
For HSM (from BL-cc)	276.0×10^3 t		402,778		1,459.34
For No. 2 New Bar (from BL-cc)	55.7×10^3 t		81,285		1,459.34
For No. 2 New Bar (from ingot)	7.3×10^3 t		11,671		1,598.64

Variable Cost

Cost Center: Billet Mill 2.15 –MT Production 249.5 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Bloom	264.0x10³ t	1,598.64	422,042		1,691.55
By-product (scale)	(–) 2.6x10³ t	30	(–) 78		
By-product (scrap)	(–) 11.9x10³ t	2,030	(–) 24,157		
(By-product total)	((–) 14.5x10³ t)		((–) 24,235)		((–) 97.13)
(Material cost)			(397,807)		(1,594.42)
Roll	37,425 kg	25	936	0.15 kg/t	3.75
Consumables	—	—	2,355	—	9.44
Electricity	6,612x10³ kwH		1,616	26.5 kwH/t	
Industrial water	508x10⁶ ℓ		341	0.4x10³ ℓ/t	
(Utilities total)			(1,957)		(7.84)
Variable cost total	249.5x10³ t	—	403,055		1,615.45
For Merchant	11.0x10³ t		17,770		1,615.45
For Sales (billet)	238.5x10³ t		385,285		1,615.45

Variable Cost

Cost Center: Merchant & Bar 2.15 –MT Production 250.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Billet	11.0x10³ t	1,615.45	17,770		
* Billet (BT-1CC)	250.0x10³ t	1,429.03	357,258		
(Total)	(261.0x10³)		(375,028)		(1,500.11)
By-product (scale)	(–) 5.2x10³ t	30	(–) 156		
By-product (scrap)	(–) 5.8x10³ t	2,030	(–) 11,774		
(By-product total)	((–) 11.0x10³ t)		((–) 11,930)		((–) 47.72)
(Material cost)			(363,098)		(1,452.39)
Roll	55,000 kg	28	1,540	0.22 kg/t	6.16
Consumables	—	—	5,325	—	21.30
Gas	100,000x10⁶ kcal		11,300	400x10³ kcal/t	
Electricity	15,025x10³ kwH		3,673	60.1 kwH/t	
Industrial water	40x10⁶ ℓ		27		
Steam	40,000 t		3,675	0.16 t/t	
(Utilities total)			(18,675)		(74.70)
Variable cost total	250.0x10³ t		388,638		1,554.55
For Sales	250.0x10³ t		388,638		1,554.55

Variable Cost

Cost Center: No. 1 New Bar 2.15 –MT Production 600.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Cost billet	615.0x10³ t	1,400.66	861,408		1,435.68
By-product (scale)	(–) 6.1x10³ t	30	(–) 183		
By-product (scrap)	(–) 8.9x10³ t	2,030	(–) 18,067		
(By-product total)	((–) 15.0x10³ t)		((–) 18,250)		((–) 30.42)
(Material cost)			(843,158)		(1,405.26)
Roll	180,000 kg	28	5,040	0.3 kg/t	8.40
Consumables	——	——	12,780	——	21.30
Gas	162,000x10⁶ kcal		18,306	270x10³ kcal/t	
Electricity	54,000x10³ kwH		13,199	90.0 kwH/t	
Industrial water	300x10⁶ ℓ		202	0.5x10³ ℓ/t	
(Utilities total)			(31,707)		(52.85)
Variable cost total	600.0x10³ t		892,685		1,487.81
For Sales	600.0x10³ t		892,685		1,487.81

Variable Cost

Cost Center: No. 2 New Bar 2.15 –MT Production 700.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Cast billet (BT-3)	655.0x10³ t	1,400.66	917,434		
* Billet (BT-1)	55.7x10³ t	1,459.34	81,285		
* Billet (Ingot)	7.3x10³ t	1,598.64	11,671		
(Billet total)	(718.0x10³ t)	(1,407.23)	(1,010,390)		(1,443.41)
By-product (scale)	(–) 7.2x10³ t	30	(–) 216		
By-product (scrap)	(–) 10.8x10³ t	2,030	(–) 21,924		
(By-product total)	((–) 18.0x10³ t		((–) 22,140)		((–) 31.63)
(Material cost)			(988,250)		(1,411.78)
Roll	210,000 kg	28	5,880	0.3 kg/t	8.40
Consumables	——	——	14,910	——	21.30
Gas	189,000x10⁶ kcal		21,357	270x10³ kcal	
Electricity	63,000x10³ kwH		15,399	90.0 kwH/t	
Industrial water	350x10⁶ ℓ		235	0.5x10³ ℓ/t	
(Utilities total)			(36,991)		(52.85)
Variable cost total	700.0x10³ t		1,046,031		1,494.33
For Sales	700.0x10³ t		1,046,031		1,494.33

Variable Cost

Cost Center: Heavy Structural 2.15 –MT Production 250.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
*Bloom	276.0x10³ t	1,459.34	402,778		1,611.11
By-product (scale)	(–) 5.4x10³ t	30	(–) 162		
By-product (scrap)	(–) 20.6x10³ t	2,030	(–) 41,818		
(By-product total)	((–) 26.0x10³ t)		((–) 41,980)		((–) 167.92)
(Material cost)			(360,798)		(1,443.19)
Roll	375,000 kg	20	7,500	1.5 kg/t	30.00
Consumables	—	—	6,763	—	27.05
Gas	100,000x10⁶ kcal		11,300	400x10³ kcal/t	
Electricity	29,650x10³ kwH		7,247	118.6 kwH/t	
Industrial water	220x10⁶ ℓ		148		
Steam	32,500 t		2,986	0.13 t/t	
(Utilities total)			(21,681)		(86.73)
Variable cost total	250.0x10³ t		396,742		1,586.97
For sales	250.0x10³ t		396,742		1,586.97

Variable Cost (Own) Generation

Cost Center: Power Plant 2.15 –MT 1,041,793x10³ kwH

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Gas	2,083,586x10⁶ kcal	113	235,445		
Industrial water	6,251x10⁶ ℓ	0.672	4,202		
Electricity	10,418x10³ kwH	0.244	2,544		
Variable cost total	1,041,793x10³ kwH		242,191		0.232

Variable Cost

Cost Center: Power Distribution 2.15 –MT

Purchase 0
Own Gene. 1,041,793x10³ kwH
Distribution 990,843x10³ kwH

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Purchased	0	—	0		
Own	1,041,793x10³ kwH	0.232	242,191		
(Total)	(1,041,793x10³ kwH)	(0.232)	(242,191)		
Variable cost total	990,843x10³ kwH		242,191		0.244

Variable Cost

Cost Center: Industrial Water 2.15 –MT Distribution 22,873x10⁶ ℓ

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	10,132x10³ kwH	0.244	2,472		
Consumables			12,900		
Variable cost total	22,873x10⁶ ℓ		15,372		0.672

Variable Cost

Cost Center: Oxygen & Nitrogen 2.15 –MT

Generation 183,944x10³ Nm³
Distribution 181,229x10³ Nm³

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	129,000x10³ kwH	0.244	31,476		
Industrial water	1,720x10⁶ ℓ	0.672	1,156		
Variable cost total	181,229x10³ Nm³		32,632		0.180

Variable Cost

Cost Center: Filtered Water 2.15 –MT Distribution 9,409x10⁶ ℓ

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	8,270x10³ kwH	0.244	2,018		
Variable cost total	9,409x10⁶ ℓ		2,018		0.214

Variable Cost

Cost Center: Steam 2.15 –MT

Generation 821,374 t
Distribution 786,994 t

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Coal	179,676 t	356	63,965		
Electricity	6,325x10³ kwH	0.244	1,543		
Filtered water	739x10⁶ ℓ	0.214	158		
Steam	72,198 t	91.88	6,641		
Variable cost total	786,994 t		72,307		91.88

4. Details of Full Cost

(Step 1, 1.0 MT)

Full Cost

Cost Center: Material Yard 1.0 –MT Production 2,364.3 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Ore fine (Sinter)	$1,052.4\times10^3$ t	112	117,869		
Manganese ore fine (Sinter)	45.7×10^3 t	183	8,363		
High grade ore (BF)	173.3×10^3 t	142	24,609		
Low grade ore (BF)	403.2×10^3 t	135	54,432		
Ore (BOF)	32.0×10^3 t	145	4,640		
Line stone (Sinter)	165.3×10^3 t	190	31,407		
Line stone (BF)	42.0×10^3 t	190	7,980		
Line stone (BOF)	233.0×10^3 t	250	58,250		
Dolomite stone (Sinter)	164.0×10^3 t	195	31,980		
Dolomite stone (BOF)	23.8×10^3 t	200	4,760		
Quartzite (Sinter)	29.6×10^3 t	155	4,588		
(Material cost total)	($2,364.3\times10^3$)		(348,878)		
Electricity	$11,822\times10^3$ kwH		7,164	5.0 kwH/t	
(Utilities total)			(7,164)		
(Variable cost total)			(356,042)		
Labour cost			2,761		
Labour cost (Rep. & maint.)			3,896		
Fixed material cost			11,656		
Depre. & interest			57,026		
Overhead exp.			11,738		
Traffic exp.			25,658		
(Fixed cost total)			(112,735)		
Full cost total	$2,364.3\times10^3$ t		468,777		

Full Cost

Cost Center: Sintering 1.0 –MT Production 1,344.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Ore fine	$1,052.4\times10^3$ t	150.49	158,377	783 kg/t	
* Mang. ore fine	45.7×10^3 t	245.89	11,237	34 kg/t	
* Lime stone	165.3×10^3 t	255.30	42,201	123 kg/t	
* Dolomite stone	164.0×10^3 t	262.01	42,970	122 kg/t	
* Quartzite	29.6×10^3 t	208.28	6,165	22 kg/t	
Flue dust	26.3×10^3 t	67	1,762	20 kg/t	
Quick lime	13.3×10^3 t	—	—	10 kg/t	
(Material cost total)	($1,497.3\times10^3$ t)		(262,712)		(195.47)
Coke breeze	121.0×10^3 t	422	51,062	90 kg/t	37.99
Gas	$67,200\times10^6$ kcal		8,596	50×10^3 kcal/t	
Electricity	$53,760\times10^3$ kwH		32,578	40.0 kwH/t	
Industrial water	671×10^6 ℓ		1,262	0.5×10^3 ℓ/t	
(Utilities total)			(42,436)		(31.57)
(Variable cost total)			(356,210)		(265.03)
Labour cost			2,813		
Labour (Rep. & maint.)			6,474		
Fixed material cost			16,767		
Depre. & interest			87,211		
Overhead exp.			17,804		
Traffic exp.			—		
(Fixed cost total)			(131,169)		(97.60)
Full cost total	$1,344.0\times10^3$ t		487,379		362.63

Full Cost

Cost Center: Coke Oven — BOF coke — 1.0 –MT Production 792.2 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Coal (prime)	665.5×10^3 t	675	449,213		
Coal (medium)	399.3×10^3 t	613	244,771		
Coal (blendable)	133.1×10^3 t	473	62,956		
Coal (Australia)	133.1×10^3 t	*1,020*	135,762		
(Coal total)	($1,331.0\times10^3$ t)	(670.7)	(892,702)		(1,126.87)
By-product (gas)	(–) $1,463,776\times10^6$ kcal		(–) 185,407		
By-product (coke breeze)	(–) 198.1×10^3 t	422	(–) 83,598		
By-product (others)			(–) 46,715		
(By-product total)			((–) 295,720)		((–) 373.29)
(Material cost total)			(596,982)		(753.58)
Absorbent oil	399 t	3,027	*1,208*		
Gas	$859,826\times10^6$ kcal	113	97,160	646×10^3 kcal/t	
Electricity	$35,937\times10^3$ kwH		21,777	27.0 kwH/t	
Steam	612,260 t		62,560	0.461 t/t	
Industrial water	$1,331\times10^6$ ℓ		2,502	1.0×10^3 ℓ/t	
Nitrogen	333×10^3 Nm^3		468	0.25 Nm^3/t	
(Utilities total)			(184,467)		(232.85)
(Variable cost total)			(781,449)		(986.43)
Labour cost			9,826		
Labour cost (Rep. & maint.)			18,450		
Fixed material cost			47,065		
Depre. & interest			67,103		
Overhead exp.			17,579		
Traffic exp.			22,430		
(Fix cost total)			(182,453)		(230.31)
Full cost total	BF coke 792.2×10^3 t		963,902		1,216.74
By-product (screening) (coke breeze)	(–) 79.2×10^3 t		(–) 33,422		
Full cost total	713.0×10^3 t		930,480		1,305.02
For BF	672.0×10^3 t		876,974		1,305.02
For sales	41.0×10^3 t		53,506		1,305.02

Full Cost

Cost Center: Blast Furnace (1) — 1.0 –MT Production 1,050.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Coke	672.0×10^3 t	1,305.02	876,974		
* Sinter	$1,344.0\times10^3$ t	362.63	487,379		
* H. grade ore	173.3×10^3 t	190.80	33,066		
* L. grade ore	403.2×10^3 t	181.40	73,139		
Scrap (iron)	14.7×10^3 t	1,830	26,901		
* *Lime stone*	42.0×10^3 t	255.30	10,722		
Other sub-material			17,640		
(Main & sub-material)			(1,525,821)		(1,453.16)
By-product (slag)	(–) 493.5×10^3 t	237	(–) 116,960		
By-product (dust)	(–) 26.3×10^3 t	67	(–) 1,762		
By-product (skull)	(–) 7.8×10^3 t	1,220	(–) 9,516		
By-product (gas)	(–) $1,757,220\times10^6$ kcal	113	(–) 198,566		
(By-product total)			((–) 326,804)		((–) 311.24)
(Material cost total)			(1,199,017)		(1,141.92)
Electricity (blower)	$115,500\times10^3$ kwH		69,591	110.0 kwH/t	110.0 kwH/t
Indust. water (blower)	16×10^6 ℓ		30	0.015×10^3 ℓ/t	
Electricity	$40,950\times10^3$ kwH		*24,815*	39.0 kwH/t	
Gas	$646,800\times10^6$ kcal		82,736	616×10^3 kcal/t	
Steam	48,300 t		4,935	*0.046 t/t*	
Nitrogen	$5,250\times10^3$ Nm^3		7,386	5.0 Nm^3/t	
Industrial water	$3,150\times10^6$ ℓ		5,920	3.0×10^3 ℓ/t	
(Utilities total)			(195,813)		(186.49)
(Variable cost total)			(1,394,830)		(1,328.41)
Labour cost			6,225		
Labour cost (Rep. & maint.)			20,753		
Fixed material cost			51,409		
Depre. & interest			239,685		
Special repair			20,300		
Overhead exp.			49,149		
Traffic exp.			18,623		
(Fixed cost total)			(406,144)		(386.80)
Full cost total	$1,050.0\times10^3$ t		1,800,974		1,715.21

Full Cost

Cost Center: Blast Furnace (2) 1.0 —MT Production 1,029.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	$1{,}050.0\times10^3$ t	1,715.21	1,800,974		1,750.22
By-product (iron scrap)	(—) 17.9×10^3 t	1,830	(—) 32,757		
By-product (skull)	(—) 3.1×10^3 t	1,220	(—) 3,782		
(By-product total)	((—) 21.0×10^3 t)		((—) 36,539)		((—) 35.51)
Full cost total	$1{,}029.0\times10^3$ t		1,764,435		1,714.71
For BOF (LD)	966.4×10^3 t		1,657,094		1,714.71
For cold pig	62.6×10^3 t		107,341		1,714.71

Full Cost

Cost Center: Cold Pig Iron 1.0 —MT Production 62.6 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	62.6×10^3 t	1,714.71	107,341		1,714.71
Electricity	313×10^3 kwH		190	5.0 kwH/t	
Industrial water	12×10^6 ℓ		23		
(Utilities total)			(213)		(3.41)
(Variable cost total)			(107,554)		(1,718.12)
Labour cost			334		
Labour (Rep. & maint.)			351		
Fixed material cost			1,049		
Depre. & interest			—		
Overhead exp.			126		
Traffic exp.			2,280		
(Fixed cost total)			(4,140)		(66.13)
Full cost total	62.6×10^3 t		111,694		1,784.25
For BOF (LD)	23.3×10^3 t		41,573		1,784.25
For sales	39.3×10^3 t		70,121		1,784.25

Full Cost

Cost Center: Burnt Lime 1.0 –MT Production 120.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Lime stone	233.0×10^3 t	335.92	78,269		652.24
Nitrogen	3×10^3 Nm^3		4	0.02 Nm^3/t	
Industrial water	106.0×10^6 ℓ		199	0.8×10^3 ℓ/t	
Gas	$135,261\times10^6$ kcal		17,302	$1,017\times10^3$ kcal/t	
Electricity	$8,645\times10^3$ kwH		5,239	65.0 kwH/t	
(Utilities total)			(22,744)		(189.54)
Refractory (brick)	40 t	4,000	160	0.33 kg/t	1.33
(Variable cost total)			(101,173)		(843.11)
Labour cost			634		
Labour cost (Rep. & maint.)			1,503		
Fixed material cost			4,497		
Depre. & interest			20,257		
Overhead exp.			4,127		
Traffic exp.			—		
(Fixed cost total)			(31,018)		(258.48)
Full cost total	120.0×10^3 t		132,191		1,101.59
For BOF (LD)	120.0×10^3 t		132,191		1,101.59

Full Cost

Cost Center: Dolomite 1.0 –MT Production 10.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Dolomite stone	23.8×10^3 t	268.74	6,396		639.60
Electricity	285×10^3 kwH		173	28.48 kwH/t	
Industrial water	3×10^6 ℓ		6		
Steam	2,200 t		225	0.22 t/t	
Gas	$25,000\times10^6$ kcal		3,198		
(Utilities total)			(3,602)		(360.20)
Refractory			570		57.00
(Variable cost total)			(10,568)		(1,056.80)
Labour cost			423		
Labour cost (Rep. & maint.)			326		
Fixed material cost			974		
Depre. & interest			46		
Overhead exp.			147		
Traffic exp.			—		
(Fixed cost total)			(1,916)		(191.60)
Full cost total	10.0×10^3 t		12,484		1,248.40
For BOF (LD)	10.0×10^3 t		12,484		1,248.40

Full Cost

Cost Center: Basic Oxygen Furnace (1) 1.0 –MT Production 1,036.3 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	966.4x10³ t	1,714.71	1,657,094	932.6 kg/t	
* Cold pig iron	23.3x10³ t	1,784.25	41,573	22.5 kg/t	
Scrap (return)	168.4x10³ t	1,877	316,094	168.6 kg/t	
Scrap (purchase)	6.3x10³ t	2,030	12,789		
(Main material cost)	(1,164.4x10³ t)		(2,027,550)	(1,123.7 kg/t)	(1,956.53)
* Burnt lime	120.0x10³ t	1,101.59	132,191	115.8 kg/t	
* Ore	32.0x10³ t	194.84	6,235	30.9 kg/t	
* Burnt dolomite	10.0x10³ t	1,248.40	12,484	9.7 kg/t	
Fluospar	4.0x10³ t	4,007	16,028	3.9 kg/t	
Ferro-manganese	8.8x10³ t	7,800	68,640	8.5 kg/t	
Ferro-silicon	1.5x10³ t	13,800	20,700	1.4 kg/t	
Alminium	0.2x10³ t	23,300	4,660	0.2 kg/t	
Coke (breeze)	0.7x10³ t	2,684	1,879	0.7 kg/t	
(Sub-material)	(177.2x10³ t)		(262,817)		(253.61)
By-product (steel scrap)	(–) 12.0x10³ t	2,030	(–) 24,360		
By-product (skull)	(–) 8.0x10³ t	1,220	(–) 9,760		
By-product (gas)	(–) 166,202x10⁶ kcal		(–) 18,780		
(By-product total)			((–) 52,900)		((–) 51.05)
(Material cost total)			(2,237,467)		(2,159.09)
Oxygen	68,396x10³ Nm³		96,227	66.0 Nm³/t	
Nitrogen	9,327x10³ t		13,123	9.0 Nm³/t	
Gas	20,726x10⁴ kcal		2,652	20x10³ kcal/t	
Electricity	31,089x10³ kwH		18,839	30.0 kwH/t	
Industrial water	311x10⁶ ℓ		585	0.3x10³ ℓ/t	
(Utilities total)			(131,426)		(126.83)
Main brick	520 t	4,000	2,080	0.50 kg/t	
Furnace brick	12,300 t	7,450	91,635	11.9 kg/t	
Ladle brick	450 t	1,200	540	0.43 kg/t	
(Refractory total)			(94,255)		(90.25)
(Variable cost total)			(2,463, 148)		(2,376.87)

Full Cost

Cost Center: Basic Oxygen Furnace (2) 1.0 –MT Production 1,036.3 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Labour cost			5,616		
Labour cost (Rep. & maint.)			9,111		
Fixed material cost			29,817		
Depre. & interest			124,437		
Overhead exp.			36,916		
Traffic exp.			11,106		
(Fixed cost total)			(217,003)		(209.40)
Full cost total	1,036.3x10³ t		2,680,151		2,586.27
For ingot casting	531.0x10³ t		1,373,309		2,586.27
For BL-1 cc	297.0x10³ t		768,122		2,586.27
For BT-1 cc	208.3x10³ t		538,720		2,586.27

Full Cost

Cost Center: Ingot Casting 1.0 –MT Production 515.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	531.0x10³ t	2,586.27	1,373,309		2,666.62
By-product (skull)	(–) 5.3x10³ t	1,220	(–) 6,466		
By-product (steel)	(–) 10.7x10³ t	2,030	(–) 21,721		
By-product total)	((–) 16.0x10³ t)		((–) 28,187)		((–) 54.73)
(material cost total)			(1,345,122)		(2,611.89)
Ladle brick	2,369 t	2,077	4,920	4.6 kg/t	9.55
Sliding nozzle	309 t	59,200	18,293	0.6 kg/t	35.52
(Refractory total)			(23,213)		(45.07)
Al-shot	51.5 t	23,300	1,200	0.1 kg/t	2.33
Ingot mould	11,330 t	6,206	70,314	22.0 kg/t	136.53
Bottom plate	1,803 t	6,408	11,554	3.5 kg/t	22.43
(total)			(83,068)		(161.29)
Electricity	1,030x10³ kwH		624	2.0 kwH/t	
Gas	4,120x10⁶ kcal		528	8x10³ kcal/t	
Oxygen	52x10³ Nm³		73	0.1 Nm³/t	
(Utilities total)			(1,225)		(2.39)
(Variable cost total)			(1,452,628)		(2,820.64)
Labour cost			2,154		
Labour cost (Rep. & maint.)			986		
Fixed material cost			2,242		
Depre. & interest			13,324		
Overhead exp.			3,035		
Traffic exp.			1,685		
(Fixed cost total)			(23,426)		(45.48)
Full cost total	515.0x10³ t		1,476,054		2,866.12
For blooming mill	515.0x10³ t		1,476,054		2,866.12

Full Cost

Cost Center: BL-1 cc 1.0 –MT Production 285.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	297.0x10³ t	2,586.27	768,122		2,695.16
By-product (steel)	(–) 5.1x10³ t	2,030	(–) 10,353		
By-product (skull)	(–) 4.5x10³ t	1,220	(–) 5,490		
By-product (scale)	(–) 2.4x10³ t	30	(–) 72		
(By-product total)	((–) 12.0x10³ t)		((–) 15,915)		((–) 55.84)
(Material cost total)			(752,207)		(2,639.32)
Ladle brick	1,653 t	2,077	3,433	5.8 kg/t	
Sliding nozzle	85.5 t	59,200	5,062	0.3 kg/t	
Fire clay brick	1,140 t	2,077	2,368	4.0 kg/t	
Castable (Hi-Al)	712.5 t	3,800	2,708	2.5 kg/t	
Nozzle (zircon)	34.2 t	61,500	2,103	0.12 kg/t	
(Refractory total)			(15,674)		(55.0)
LPG	142.5x10³ Nm³	5,434/10³	774	0.5 m³/t	
Rapeseed oil	34,200 ℓ	11.3	386	120 cc/t	
Copper mould	5,700 kg	430	2,451	20 g/t	
Al wire	—	—	—	—	
Burnt paddy	85,500 kg	4.9	419	0.3 kg/t	
Tips	9,120 P	17.4	159	0.032 P/t	
(Sub-material total)			(4,189)		(14.71)
Electricity	2,850x10³ kwH		1,727	10.0 kwH/t	
Industrial water	114x10⁶ ℓ		214	0.4x10³ ℓ/t	
Gas	5,130x10⁶ kcal		657	18x10³ kcal/t	
Oxygen	456x10³ Nm³		642	1.6 Nm³/t	
Nitrogen	114x10³ Nm³		160	0.4 Nm³/t	
(Utilities total)			(3,400)		(11.93)
(Variable cost total)			(775,470)		(2,720.96)
Labour cost			2,373		
Labour cost (Rep. & maint.)			2,126		
Fixed material cost			5,968		
Depre. & interest			29,076		
Overhead exp.			6,188		
Traffic exp.			1,264		
(Fixed cost total)			(46,995)		(164.88)
(Full cost total)	285.0x10³ t		822,465		2,885.84
For blooming mill	285.0x10³ t		822,465		2,885.84

Full Cost

Cost Center: BT-1 cc 1.0 –MT Production 200.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	208.3x10³ t	2,586.27	538,720		2,693.60
By-product (steel)	(–) 3.5x10³ t	2,030	(–) 7,105		
By-product (skull)	(–) 3.1x10³ t	1,220	(–) 3,782		
By-product (scale)	(–) 1.7x10³ t	30	(–) 51		
(By-product total)	((–) 8.3x10³ t)		((–) 10,938)		((–) 54.69)
(Material cost total)			(527,782)		(2,638.91)
Ladle brick	1,150 t	2,007	2,409	5.8 kg/t	
Sliding nozzle	120 t	59,200	7,104	0.6 kg/t	
Fire clay brick	1,200 t	2,077	2,492	6.0 kg/t	
Castable (Hi-Al)	900 t	3,800	3,420	4.5 kg/t	
Nozzle (Zircon)	18 t	61,500	1,107	0.09 kg/t	
(Refractory total)			(16,532)		(82.66)
LPG	—	—	—	—	
Rapeseed oil	24,000 ℓ	11.3	271	120 cc/t	
Copper mould	4,000 kg	430	1,720	20 g/t	
Al wire	20.0 t	23,300	466	100 g/t	
Burnt paddy	60,000 kg	4.9	294	0.3 kg/t	
Tips	6,400 P	17.4	111	0.032 P/t	
(Sub-material total)			(2,862)		(14.31)
Electricity	2,000x10³ kwH		1,212	10.0 kwH/t	
Industrial water	80x10⁶ ℓ		150	0.4x10³ ℓ/t	
Gas	3,600x10⁶ kcal		461	18x10³ kcal/t	
Oxygen	20x10³ Nm³		28	0.1 Nm³/t	
Nitrogen	80x10³ Nm³		113	0.4 Nm³/t	
(Utilities total)			(1,964)		(9.82)
Labour cost			1,666		
Labour cost (Rep. & maint.)			2,056		
Fixed material cost			5,876		
Depre. & interest			28,559		
Overhead exp.			5,950		
Traffic exp.			874		
(Fixed cost total)			(44,981)		(224.91)
Full cost total	200.0x10³ t		594,121		2,970.61
For No. 1 New Bar	200.0x10³ t		594,121		2,970.61

Full Cost

Cost Center: Blooming mill 1.0 –MT Production 756.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Ingot steel	515.0x10³ t	2,866.12	1,476,054		(3,114.04)
By-product (scale)	(–) 15.4x10³ t	30	(–) 462		
By-product (scrap)	(–) 25.6x10³ t	2,030	(–) 51,968		
(By-product total)	((–) 41.0x10³ t)		((–) 52,430)		((–) 110.61)
(Material cost)	(474.0x10³ t)		(1,423,624)		(3,003.43)
* Cost bloom	285.0x10³ t	2,885.84	822,465		(2,916.54)
By-product (scale)	(–) 1.2x10³ t	30	(–) 36		
By-product (scrap)	(–) 1.8x10³ t	2,030	(–) 3,654		
(By-product total)	((–) 3.0x10³ t		((–) 3,690)		((–) 13.08)
(Material cost)	(282.0x10³ t)		(818,775)		(2,903.46)
Roll	52,920 kg	20	1,058	0.07 kg/t	1.40
Consumable	——	——	4,113	——	5.44
Gas	334,908x10⁶ kcal		42,841	443x10³ kcal/t	
Electricity	18,734x10³ kwH		11,353	24.78 kwH/t	
Industrial water	302x10⁶ ℓ		568		
(Utilities total)			(54,762)		(72.44)
(Variable cost total)			(2,302,332)		(3,045.41)
Labour cost			3,066		
Labour cost (Rep. & maint.)			12,694		
Fixed material cost			31,322		
Depre. & interest			45,427		
Overhead exp.			11,277		
Traffic exp.			4,634		
(Fixed cost total)			(108,420)		(143.41)
Full cost total	756.0x10³ t		2,410,752		3,188.83
For billet mill	480.0x10³ t		1,547,935		3,224.86
For HSM	276.0x10³ t		862,817		3,126.15

Full Cost

Cost Center: Billet Mill 1.0 –MT Production 453.6 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Bloom	480.0x10³ t	3,224.86	1,547,935		3,412.55
By-product (scale)	(–) 4.8x10³ t	30	(–) 144		
By-product (scrap)	(–) 21.6x10³ t	2,030	(–) 43,848		
(By-product total)	((–) 26.4x10³ t)		((–) 43,992)		((–) 96.98)
(Material cost)			(1,503,943)		(3,315.57)
Roll	68,040 kg	25	1,701	0.15 kg/t	3.75
Consumables			4,282	—	9.44
Electricity	12,020x10³ kwH		7,264	26.5 kwH/t	
Industrial water	327x10⁶ ℓ		615		
(Utilities total)			(7,899)		(17.42)
(Variable cost total)			(1,517,825)		(3,346.18)
Labour cost			3,050		
Labour cost (Rep. & maint.)			5,938		
Fixed material cost			12,697		
Depre. & interest			5,452		
Overhead exp.			2,661		
Traffic exp.			19,297		
(Fixed cost total)			(49,095)		(108.23)
Full cost total	453.6x10³ t		1,566,920		3,454.41
For sheet bar	127.0x10³ t		438,710		3,454.41
For merchant	261.0x10³ t		901,600		3,454.41
For No. 1 New Bar	60.0x10³ t		207,265		3,454.41
For sales	5.6x10³ t		19,345		3,454.41

Full Cost

Cost Center: Sheet Mill 1.0 –MT Production 100.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Sheet bar	127.0x10³ t	3,454.41	438,710		4,387.10
By-product (scale)	(–) 0.5x10³ t	30	(–) 15		
By-product (scrap)	(–) 26.5x10³ t	2,030	(–) 53,795		
(By-product total)	((–) 27.0x10³ t)		((–) 53,810)		((–) 538.10)
(Material cost)			(384,900)		(3,849.00)
Roll	265,000 kg	20	5,300	2.65 kg/t	53.00
Consumables	—	—	420	—	4.2
Gas	140,000x10⁶ kcal		17,908	1,400x10³ kcal/t	
Electricity	20,110x10³ kwH		12,186	201.1 kwH/t	
Industrial water	—		—		
Steam	30,000 t		3,065	0.3 t/t	
(Utilities total)			(33,159)		(331.59)
(Variable cost total)			(423,779)		(4,237.79)
Labour cost			12,775		
Labour cost (Rep. & maint.)			8,071		
Fixed material cost			4,916		
Depre. & interest			4,379		
Overhead exp.			4,849		
Traffic exp.			6,484		
(Fixed cost total)			(41,274)		(412.74)
Full cost total	100.0x10³ t		465,053		4,650.53
For galvanized sheet	30.0x10³ t		139,516		4,650.53
For sales (black sheet)	70.0x10³ t		325,537		4,650.53

Full Cost

Cost Center: Galvanized Sheet 1.0 –MT Production 30.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Black sheet	30.0×10^3 t	4,650.53	139,516		4,650.53
Spelter	2,452.5 t	29,500	72,349	81.75 kg/t	2,411.63
By-product (zinc dross)	(–) 270 t	19,000	(–) 5,130		
By-product (skimming)	(–) 188 t	2,600	(–) 489		
(By-product total)			((–) 5,619)		((–) 187.29)
Consumables	—	—	720	—	24.00
Industrial water	160×10^6 ℓ	-	301	—	10.03
(Utilities total)			(301)		(10.03)
(Variable cost total)			(207,267)		(6,908.90)
Labour cost			12,887		
Labour (Rep. & maint.)			6,720		
Fixed material cost			1,049		
Depre. & interest			—		
Overhead exp.			3,614		
Traffic exp.			1,092		
(Fixed cost total)			(25,362)		(845.40)
Full cost total	30.0×10^3 t		232,629		7,754.30
For sales	30.0×10^3 t		232,629		7,754.30

Full Cost

Cost Center: Merchant & Bar 1.0 –MT Production 250.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Billet	261.0×10^3 t	3,454.41	901,600		3,606.40
By-product (scale)	(–) 5.2×10^3 t	30	(–) 156		
By-product (scrap)	(–) 5.8×10^3 t	2,030	(–) 11,774		
(By-product total)	((–) 11.0×10^3 t)		((–) 11,930)		((–) 47.72)
(Material cost)			(889,670)		(3,558.68)
Roll	55,000 kg	28	1,540	0.22 kg/t	6.16
Consumables	—	—	5,325	—	21.30
Gas	$100,000 \times 10^6$ kcal		12,792	400×10^3 kcal/t	
Electricity	$15,025 \times 10^3$ kwH		9,105	60.1 kwH/t	
Industrial water	35×10^6 ℓ		66		
Steam	40,000 t		4,088	0.16 t/t	
(Utilities total)			(26,051)		(104.20)
Labour cost			4,465		
Labour cost (Rep. & maint.)			6,416		
Fixed material cost			12,719		
Depre. & interest			10,390		
Overhead exp.			3,920		
Traffic exp.			10,262		
(Fixed cost total)			(48,172)		(192.69)
Full cost total	250.0×10^3 t		970,758		3,883.03
For scales	250.0×10^3 t		970,758		3,883.03

Full Cost

Cost Center: No. 1 New Bar 1.0 –MT Production 254.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Cast billet (STCC-1)	200.0x10³ t	2,970.61	594,121		
Billet	60.0x10³ t	3,454.41	207,265		
(Total)	(260.0x10³ t)		(801,386)		(3,155.06)
By-product (scale)	(–) 2.6x10³ t	30	(–) 78		
By-product (scrap)	(–) 3.4x10³ t	2,030	(–) 6,902		
(By-product total)	((–) 6.0x10³ t)		((–) 6,980)		((–) 27.48)
(Material cost)			(794,406)		(3,127.58)
Roll	76,200 kg	28	2,134	0.3 kg/t	8.40
Consumables	—	—	5,410	—	21.30
Gas	68,580x10⁶ kcal		8,773	270x10³ kcal/t	
Electricity	22,860x10³ kwH		13,853	90.0 kwH/t	
Industrial water	127x10⁶ ℓ		239	0.5x10³ ℓ/t	
(Utilities total)			(22,865)		(90.02)
(Variable cost total)			(824,815)		(3,247.30)
Labour cost			4,175		
Labour cost (Rep. & maint.)			12,558		
Fixed material cost			31,296		
Depre. & interest			147,595		
Overhead exp.			30,288		
Traffic exp.			9,882		
(Fixed cost total)			(235,794)		(928.33)
Full cost total	254.0x10³ t		1,060,609		4,175.63
For scales	254.0x10³ t		1,060,609		4,175.63

Full Cost

Cost Center: Heavy Structural 1.0 –MT Production 250.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Bloom	276.0x10³ t	3,126.15	862,817		3,451.27
By-product (scale)	(–) 5.4x10³ t	30	(–) 162		
By-product (scrap)	(–) 20.6x10³ t	2,030	(–) 41,818		
(By-product total)	((–) 26.0x10³ t)		((–) 41,980)		((–) 167.92)
(Material cost)			(820,837)		(3,283.35)
Roll	375,000 kg	20	7,500	1.5 kg/t	30.00
Consumables	—	—	6,763	—	27.05
Gas	100,000x10⁶ kcal		12,792	400x10³ kcal/t	
Electricity	29,650x10³ kwH		17,967	118.6 kwH/t	
Industrial water	220x10⁶ ℓ		414		
Steam	32,500 t		3,321	0.13 t/t	
(Utilities total)			(34,494)		(137.98)
(Variable cost total)			(869,594)		(3,478.38)
Labour cost			6,580		
Labour cost (Rep. & maint.)			8,468		
Fixed material cost			20,399		
Depre. & interest			12,631		
Overhead exp.			5,102		
Traffic exp.			11,842		
(Fixed cost total)			(65,022)		(260.08)
Full cost total	250.0x10³ t		934,616		3,738.46
For sales	250.0x10³ t		934,616		3,738.46

Full Cost

Cost Center: Gas 1.0 —MT Generation 3,400,268x10⁶ kcal Distribution 3,387,198x10⁶ kcal

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Gas	3,387,198x10⁶ kcal	113	382,753		113.00
Labour cost			1,089		
Labour cost (Rep. & maint.)			3,546		
Fixed material cost			9,605		
Depre. & interest			36,288		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(50,528)		(14.92)
Full cost total	3,387,198x10⁶ kcal		433,281		127.92

Full Cost (Own)

Cost Center: Power Plant 1.0 —MT Generation 386,543x10³ kwH

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Gas	773,085x10⁶ kcal		98,890		
Industrial water	2,319x10⁶ ℓ		4,361		
Electricity	3,865x10³ kwH	0.606	2,343		
(Variable cost total)			(105,594)		(0.273)
Labour cost			3,193		
Labour cost (Rep. & maint.)			6,396		
Fixed material cost			15,582		
Depre. & interest			71,475		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(96,646)		(0.250)
Full cost total	386,543x10³ kwH		202,240		0.523

Full Cost

Cost Center: Power Distribution 1.0 —MT Purchase 153,405x10³ kwH Own Generation 386,543x10³ kwH Distribution 514,236x10³ kwH

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Purchased	153,405x10³ kwH	0.577	88,515		
Own	386,543x10³ kwH	0.523	202,240		
(Variable cost total)	(539,948x10³ kwH)	(0.538)	(290,755)		(0.565)
Labour cost			724		
Labour cost (Rep. & maint.)			1,349		
Fixed material cost			3,499		
Depre. & interest			15,292		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(20,864)		(0.041)
Full cost total	514,236x10³ kwH		311,619		0.606

Full Cost

Cost Center: Industrial Water 1.0 –MT Distribution $10,084 \times 10^6$ ℓ

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	$4,467 \times 10^3$ kwH	0.606	2,707		
Consumables			6,000		
(Variable cost total)			(8,707)		(0.863)
Labour cost			867		
Labour cost (Rep. & maint.)			1,090		
Fixed material cost			2,588		
Depre. & interest			5,707		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(10,252)		(1.017)
Full cost total	$10,084 \times 10^6$ ℓ		18,959		1.880

Full Cost

Cost Center: Steam 1.0 –MT Generation 883,875 t Distribution 845,612 t

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Coal	193,348 t	356	68,832		
Electricity	$6,806 \times 10^3$ kwH		4,124		
Filtered water	796×10^6 ℓ		738		
Steam	80,352 t	102.18	8,210		
(Variable cost total)			(81,904)		(96.86)
Labour cost			—		
Labour cost (Rep. & maint.)			1,127		
Fixed material cost			3,373		
Depre. & interest			—		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(4,500)		(5.32)
Full cost total	845,612 t		86,404		102.18

Full Cost

Cost Center: Filtered Water 1.0 –MT Distribution $9,466 \times 10^6$ ℓ

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	$8,321 \times 10^3$ kwH	0.606	5,042		0.533
Labour cost			578		
Labour cost (Rep. & maint.)			775		
Fixed material cost			1,524		
Depre. & interest			853		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(3,730)		(0.394)
Full cost total	$9,466 \times 10^6$ ℓ		8,772		0.927

Full Cost

Cost Center: Oxygen & Nitrogen 1.0 –MT Generation $84,836 \times 10^3$ Nm^3 Distribution $84,031 \times 10^3$ Nm^3

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	$60,000 \times 10^3$ kwH		36,359		
Industrial water	800×10^6 ℓ		1,504		
(Variable cost total)			(37,863)		(0.451)
Labour cost			1,120		
Labour cost (Rep. & maint.)			4,908		
Fixed material cost			13,677		
Depre. & interest			60,656		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(80,361)		(0.956)
Full cost total	$84,031 \times 10^3$ Nm^3		118,224		1.407

5. Details of Full Cost

(Step 2, 2.15 MT)

Full Cost

Cost Center: Material Yard 2.15 –MT Production 4,965.2 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Ore fine (Sinter)	$2,204.9 \times 10^3$ t	112	246,949		
Manganese ore fine (Sinter)	95.7×10^3 t	183	17,513		
High grade ore (BF)	363.9×10^3 t	142	51,646		
Low grade ore (BF)	844.6×10^3 t	135	114,048		
Ore (BOF)	62.4×10^3 t	145	9,048		
Line stone (Sinter)	346.4×10^3 t	190	65,816		
Line stone (BF)	88.0×10^3 t	190	16,720		
Line stone (BOF)	502.0×10^3 t	250	125,500		
Dolomite stone (Sinter)	343.6×10^3 t	195	67,002		
Dolomite stone (BOF)	52.4×10^3 t	200	10,480		
Quartzite (Sinter)	62.0×10^3 t	155	9,610		
(Material cost total)	($4,965.2 \times 10^3$ t)		(734,232)		
Electricity	$24,826 \times 10^3$ kwH		12,018	5.0 kwH/t	
(Utilities total)			(12,018)		
(Variable cost total)			(746,250)		
Labour cost			3,567		
Labour cost (Rep. & maint.)			1,847		
Fixed material cost			15,400		
Depre. & interest			63,575		
Overhead exp.			9,389		
Traffic exp.			32,975		
(Fixed cost total)			(126,753)		
Full cost total	$4,965.2 \times 10^3$ t		873,003		

Full Cost

Cost Center: Sintering 2.15 –MT Production 2,816.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Ore fine	$2,204.9 \times 10^3$ t	133.17	293,623	783 kg/t	
* Mang. ore fine	95.7×10^3 t	217.59	20,823	34 kg/t	
* Lime stone	346.4×10^3 t	225.91	78,255	123 kg/t	
* Dolomite stone	343.6×10^3 t	231.85	79,665	122 kg/t	
* Quartzite	62.0×10^3 t	184.29	11,426	22 kg/t	
Flue dust	55.0×10^3 t	67	3,685	20 kg/t	
Quick lime	28.7×10^3 t	—	—	10 kg/t	
(Material cost total)	($3,137.1 \times 10^3$ t)		(487,477)		(173.11)
Coke breeze	253.4×10^3 t	422	106,935	90 kg/t	37.97
Gas	$140,800 \times 10^6$ kcal		17,014	50×10^3 kcal/t	
Electricity	$112,640 \times 10^3$ kwH		54,529	40 kwH/t	
Industrial water	$1,408 \times 10^6$ ℓ		1,747	0.5×10^3 ℓ/t	
(Utilities total)			(73,290)		(26.03)
(Variable cost total)			(667,702)		(237.11)
Labour cost			3,742		
Labour (Rep. & maint.)			5,923		
Fixed material cost			39,854		
Depre. & interest			169,910		
Overhead exp.			24,439		
Traffic exp.			—		
(Fixed cost total)			(243,868)		(86.60)
Full cost total	$2,816.0 \times 10^3$ t		911,570		323.71

Full Cost

Cost Center: Coke Oven — 2.15 –MT — BF coke Production 1438.8 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Coal (prime)	1,197.0x10³ t	675	807,975		
Coal (medium)	718.2x10³ t	613	440,257		
Coal (blendable)	239.4x10³ t	473	113,236		
Coal (Australia)	239.4x10³ t	1,020	244,188		
(Coal total)	(2,394.0x10³ t)	(670.7)	(1,605,656)		(1,115.97)
By-product (gas)	(–) 2,962,529x10⁶ kcal	113	(–) 334,766		
By-product (coal breeze)	(–) 359.7x10³ t	422	(–) 151,793		
By-product (others)			(–) 35,616		
(By-product total)			((–) 522,175)		((–) 362.93)
(Material cost total)			(1,083,481)		(753.04)
Absorbent oil	718 t	3,027	2,173		1.51
Gas	1,568,070x10⁶ kcal		189,490	655x10³ kcal/t	
Electricity	68,708x10³ kwH		33,261	28.7 kwH/t	
Steam	536.256 t		54,101	0.224 t/t	
Industrial water	4,309x10⁶ ℓ		5,336	1.8x10³ ℓ/t	
Nitrogen	599x10³ Nm³		610	0.25 Nm³/t	
(Utilities total)			(282,798)		(196.55)
(Variable cost total)			(1,368,452)		
Labour cost			12,209		
Labour cost (Rep. & maint.)			17,162		
Fixed material cost			111,661		
Depre. & interest			311,952		
Overhead exp.			46,465		
Traffic exp.			27,280		
(Fixed cost total)			(526,829)		(366.17)
Full cost total	BF coke 1,438.8x10³ t	—	1,895,281		1,317.27
By-product (screening) (coke breeze)	(–) 142.8x10³ t	422	(–) 60,262		
Full cost total	1,296.0x10³ t	—	1,835,019		1,415.91
For BF	1,296.0x10³ t	—	1,835,019		1,415.91
For sales	—	—	—		—

Full Cost

Cost Center: Blast Furnace (1) — 2.15 –MT Production 2,200.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Coke	1,296.0x10³ t	1,415.91	1,835,019	589 kg/t	
* Sinter	2,816.0x10³ t	323.71	911,570	1,280 kg/t	
* H. grade ore	363.0x10³ t	168.84	61,288	165 kg/t	
* L. grade ore	844.8x10³ t	160.51	135,603	384 kg/t	
Scrap (iron)	30.8x10³ t	1,830	56,364	14 kg/t	
* Lime stone	88.0x10³ t	225.91	19,880	40 kg/t	
Other sub-material	—		36,960	—	
(Main & sub-material)			(3,056,684)		(1,389.40)
By-product (slag)	(–) 1,012.0x10³ t	237	(–) 239,844		
By-product (dust)	(–) 55.0x10³ t	67	(–) 3,685		
By-product (skull)	(–) 16.3x10³ t	1,220	(–) 19,886		
By-product (gas)	(–) 3,420,186x10⁶ kcal	113	(–) 386,481		
(By-product total)			((–) 649,896)		((–) 295.41)
(Material cost total)			(2,406,788)		(1,093.99)
Electricity (blower)	242,000x10³ kwH		117,163	110.0 kwH/t	
Indust. water (blower)	33x10⁶ ℓ		41	0.015x10³ ℓ/t	
Electricity	81,400x10³ kwH		39,405	37.0 kwH/t	
Gas	1,639,000x10⁶ kcal		198,061	745x10³ kcal/t	
Steam	101,200 t		10,210	0.046 t/t	
Nitrogen	11,000x10³ Nm³		11,199	5.0 Nm³/t	
Industrial water	6,150x10⁶ ℓ		7,629	2.8x10³ ℓ/t	
(Utilities total)			(383,708)		(174.41)
(Variable cost total)			(2,790,496)		(1,268.41)
Labour cost			8,331		
Labour cost (Rep. & maint.)			18,507		
Fixed material cost			117,678		
Depre. & interest			451,954		
Special repair			40,600		
Overhead exp.			57,953		
Traffic exp.			25,064		
(Fixed cost total)			(720,087)		(327.31)
Full cost total	2,200x10³ t		3,510,583		1,595.72

Full Cost

Cost Center: Blast Furnace (2) 2.15 –MT Production 2,156.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	$2{,}200\times10^3$ t	1,595.72	3,510,583		1,628.29
By-product (iron scrap)	(–) 37.4×10^3 t	1,830	(–) 68,442		
By-product (skull)	(–) 6.6×10^3 t	1,220	(–) 8,052		
(By-product total)	((–) 44.0×10^3 t)		((–) 76,494)		((–) 35.48)
Full cost total	$2{,}156.0\times10^3$ t		3,434,089		1,592.81
For BOF (LD)	$2{,}080.0\times10^3$ t		3,313,036		1,592.81
For cold pig	76.0×10^3 t		121,053		1,592.81

Full Cost

Cost Center: Cold Pig Iron 2.15 –MT Production 76.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	76.0×10^3 t	1,592.81	121,053		1,592.80
Electricity	388×10^3 kwH		188	5.0 kwH/t	
Industrial water	15×10^6 ℓ		19	0.2×10^3 ℓ/t	
(Utilities total)			(207)		(2.73)
(Variable cost total)			(121,260)		(1,595.53)
Labour cost			334		
Labour (Rep. & maint.)			150		
Fixed material cost			1,250		
Depre. & interest			—		
Overhead exp.			66		
Traffic exp.			2,358		
(Fixed cost total)			(4,158)		(54.71)
Full cost total	76.0×10^3 t		125,418		1,650.24
For BOF (LD)	50.0×10^3 t		82,512		1,650.24
For sales	26.0×10^3 t		42,906		1,650.24

Full Cost

Cost Center: Burnt Lime 2.15 –MT Production 258.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Lime stone	502.0×10^3 t	297.25	149,221		578.38
Nitrogen	6×10^3 Nm^3		6	0.02 Nm^3/t	
Industrial water	230×10^6 ℓ		285	0.8×10^3 ℓ/t	
Gas	$291,879 \times 10^6$ kcal		35,271	$1,017 \times 10^3$ kcal	
Electricity	$18,655 \times 10^3$ kwH		9,031	65.0 kwH/t	
(Utilities total)			(44,593)		(172.84)
Refractory (brick)	86 t	4,000	344	0.33 kg/t	1.33
(Variable cost total)			(194,158)		(752.55)
Labour cost			742		
Labour cost (Rep. & maint.)			964		
Fixed material cost			8,039		
Depre. & interest			30,067		
Overhead exp.			4,324		
Traffic exp.			—		
(Fixed cost total)			(44,136)		(171.07)
Full cost total	258.0×10^3 t		238,294		923.62
For BOF (LD)	258.0×10^3 t		238,294		923.62

Full Cost

Cost Center: Dolomite 2.15 –MT Production 22.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Dolomite stone	52.4×10^3 t	237.81	12,461		566.41
Electricity	627×10^3 kwH		304	28.48 kwH/t	
Industrial water	5×10^6 ℓ		6	—	
Steam	4,840 t		488	0.22 t/t	
Gas	$55,000 \times 10^6$ kcal		6,646	$2,500 \times 10^3$ kcal	
(Utilities total)			(7,444)		(338.36)
Refractory			1,254		57.00
(Variable cost total)			(21,159)		(961.77)
Labour cost			494		
Labour cost (Rep. & maint.)			137		
Fixed material cost			1,163		
Depre. & interest			46		
Overhead exp.			92		
Traffic exp.			—		
(Fixed cost total)			(*1,932*)		(*87.82*)
Full cost total	22.0×10^3 t		23,091		1,049.59
For BOF (LD)	22.0×10^3 t		23,091		1,049.59

Full Cost

Cost Center: Basic Oxygen Furnace (1) 2.15 –MT Production 2,229.6 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Hot metal	$2,080.0\times10^3$ t	1,592.81	3,313,036	932.6 kg/t	
* Cold pig iron	50.0×10^3 t	1,650.24	82,512	22.5 kg/t	
Scrap (return)	204.8×10^3 t	1,745	357,424	168.5 kg/t	
Scrap (purchase)	171.0×10^3 t	2,030	347,130		
(Main material cost)	($2,505.8\times10^3$ t)		(4,100,102)	(1,123.6 kg/t)	(1,838.94)
* Burnt lime	258.0×10^3 t	923.62	238,294	115.7 kg/t	
* Ore	62.4×10^3 t	172.40	10,758	28.0 kg/t	
* Burnt dolomite	22.0×10^3 t	1,049.59	23,091	9.6 kg/t	
Fluospar	8.6×10^3 t	4,007	34,460	3.9 kg/t	
Ferro-manganese	19.8×10^3 t	7,800	154,440	8.9 kg/t	
Ferro-silicon	4.7×10^3 t	13,800	64,860	2.1 kg/t	
Alminium	0.7×10^3 t	23,300	16,310	0.3 kg/t	
Coke (breeze)	1.5×10^3 t	2,684	4,026	0.7 kg/t	
(Sub-material)	(377.7×10^3 t)		(546,239)		(244.99)
By-product (steel scrap)	(–) 25.8×10^3 t	2,030	(–) 52,374		
By-product (skull)	(–) 17.2×10^3 t	1,220	(–) 20,984		
By-product (gas)	(–) $357,730\times10^6$ kcal		(–) 40,423		
(By-product total)			((–) 113,781)		((–) 51.03)
(Material cost total)			(4,532,560)		(2,032.90)
Oxygen	$147,154\times10^3$ Nm^3		149,812	66.0 Nm^3/t	
Nitrogen	$20,066\times10^3$ Nm^3		20,429	9.0 Nm^3/t	
Gas	$44,529\times10^6$ kcal		5,389	20×10^3 kcal	
Electricity	$66,888\times10^3$ kwH		32,380	30.0 kwH/t	
Industrial water	699×10^6 ℓ		829	0.3×10^3 ℓ/t	
(Utilities total)			(208,839)		(93.67)
Main brick	1,100 t	4,000	4,400	0.50 kg/t	
Furnace brick	26,400 t	7,450	196,680	11.9 kg/t	
Ladle brick	970 t	1,200	1,164	0.43 kg/t	
(Refractory total)			(202,244)		(90.71)
(Variable cost total)			(4,943,643)		(2,217.28)

Full Cost

Cost Center: Basic Oxygen Furnace (2) 2.15 –MT Production 2,229.6 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Labour cost			7,428		
Labour cost (Rep. & maint.)			5,650		
Fixed material cost			44,568		
Depre. & interest			176,307		
Overhead exp.			33,791		
Traffic exp.			16,634		
(Fixed cost total)			(284,378)		(127.55)
Full cost total	$2,229.6\times10^3$ t		5,228,021		2,344.82
For ingot casting	304.1×10^3 t		713,061		2,344.82
For BL-1 cc	349.0×10^3 t		818,344		2,344.82
For BT-1 cc	260.4×10^3 t		610,592		2,344.82
For BT-2 & 3 cc	$1,316.1\times10^3$ t		3,086,024		2,344.82

Full Cost

Cost Center: Ingot Casting 2.15 –MT Production 295.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	304.1x10³ t	2,344.82	713,061		2,417.15
By-product (skull)	(–) 3.0x10³ t	1,220	(–) 3,660		
By-product (steel)	(–) 6.1x10³ t	2,030	(–) 12,383		
(By-product total)	((–) 9.1x10³ t)		((–) 16,043)		((–) 54.38)
(material cost total)			(697,018)		(2,362.77)
Ladle brick	1,357 t	2,077	2,818	4.6 kg/t	
Sliding nozzle	177 t	59,200	10,478	0.6 kg/t	
(Refractory total)			(13,296)		(45.07)
Al-shot	29.5 t	23,300	687	0.1 kg/t	2.33
Ingot mould	6,490 t	6,206	40,277	22.0 kg/t	136.53
Bottom plate	1,032.5 t	6,408	6,616	3.5 kg/t	22.43
(total)					
Electricity	590x10³ kwH		286	2.0 kwH/t	
Gas	2,360x10⁶ kcal		286	8x10³ kcal/t	
Oxygen	30x10³ Nm³		31	0.1 Nm³/t	
(Utilities total)			(603)		(2.04)
(Variable cost total)			(758,497)		(2,571.18)
Labour cost			2,195		
Labour cost (Rep. & maint.)			402		
Fixed material cost			2,826		
Depre. & interest			13,324		
Overhead exp.			2,167		
Traffic exp.			937		
(Fixed cost total)			(21,851)		(74.07)
Full cost total	295.0x10³ t		780,348		2,645.25
For blooming mill	295.0x10³ t		780,348		2,645.25

Full Cost

Cost Center: BL-1 cc 2.15 –MT Production 335.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	349.0x10³ t	2,344.82	818,344		2,442.81
By-product (steel)	(–) 6.0x10³ t	2,030	(–) 12,180		
By-product (skull)	(–) 5.2x10³ t	1,220	(–) 6,344		
By-product (scale)	(–) 2.8x10³ t	30	(–) 84		
(By-product total)	((–) 14.0x10³ t		((–) 18,608)		((–) 55.54)
(Material cost total)			(799,736)		(2,387.27)
Ladle brick	1,943 t	2,077	4,036	5.8 kg/t	
Sliding nozzle	100.5 t	59,200	5,950	0.3 kg/t	
Fire clay brick	1,340 t	2,077	2,783	4.0 kg/t	
Castable (Hi-Al)	837.5 t	3,800	3,183	2.5 kg/t	
Nozzle (zircon)	40.2 t	61,500	2,472	0.12 kg/t	
(Refractory total)			(18,424)		(55.00)
LPG	167.5x10³ Nm³	5,434/10³	910	0.5 m³/t	
Rapeseed oil	40,200 ℓ	11.3	454	120 cc/t	
Copper mould	6,700 kg	430	2,881	20.0 g/t	
Al wire	—	—	—	—	
Burnt paddy	100,500 kg	4.9	492	0.3 kg/t	
Tips	10,720 P	17.4	187	0.032 P/t	
(Sub-material total)			(4,924)		(14.69)
Electricity	3,350x10³k wH		1,622	10.0 kwH/t	
Industrial water	134x10⁶ ℓ		166	0.4x10³ ℓ/t	
Gas	6,030x10⁶ kcal		728	18x10³ kcal/t	
Oxygen	337x10³ Nm³		343	1.5 Nm³/t	
Nitrogen	134x10³ Nm³		136	0.4 Nm³/t	
(Utilities total)			(2,995)		(8.95)
(Variable cost total)			(826,079)		(2,465.91)
Labour cost			1,247		
Labour cost (Rep. & maint.)			931		
Fixed material cost			7,163		
Depre. & interest			29,087		
Overhead exp.			4,255		
Traffic exp.			1,441		
(Fixed cost total)			(44,124)		(131.71)
(Full cost total)	335.0x10³ t		870,203		2,597.62
For blooming mill	335.0x10³ t		870,203		2,597.62

Full Cost

Cost Center: BT-1 cc 2.15 –MT Production 250.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	260.4x10³ t	2,344.82	610,592		2,442.37
By-product (steel)	(–) 4.4x10³ t	2,030	(–) 8,932		
By-product (skull)	(–) 3.9x10³ t	1,220	(–) 4,758		
By-product (scale)	(–) 2.1x10³ t	30	(–) 63		
(By-product total)	((–) 10.4x10³ t)		((–) 13,753)		((–) 55.01)
(Material cost total)			(596,839)		(2,387.36)
Ladle brick	1,450 t	2,077	3,012	5.8 kg/t	
Sliding nozzle	150 t	59,200	8,880	0.6 kg/t	
Fire clay brick	1,500 t	2,077	3,116	6.0 kg/t	
Castable (Hi-Al)	1,125 t	3,800	4,275	4.5 kg/t	
Nozzle (Zircon)	22.5 t	61,500	1,384	0.09 kg/t	
(Refractory total)			(20,667)		(82.67)
LPG	—	—	—	—	
Rapeseed oil	30,000 ℓ	11.3	339	120 cc/t	
Copper mould	5,000 kg	430	2,150	20.0 g/t	
Al wire	25 t	23,300	583	100.0 g/t	
Burnt paddy	75,000 kg	4.9	368	0.3 kg/t	
Tips	8,000 P	17.4	139	0.032 P/t	
(Sub-material total)			(3,579)		(14.31)
Electricity	2,500x10³ kwH		1,210	10.0 kwH/t	
Industrial water	100x10⁶ ℓ		124	0.4x10³ ℓ/t	
Gas	4,500x10⁶ kcal		544	18x10³ kcal/t	
Oxygen	25x10³ Nm³		25	1.0 Nm³/t	
Nitrogen	100x10³ Nm³		102	0.4 Nm³/t	
(Utilities total)			(2,005)		(8.02)
(Variable cost total)			(623,090)		(2,492.36)
Labour cost			931		
Labour cost (Rep. & maint.)			897		
Fixed material cost			7,035		
Depre. & interest			28,571		
Overhead exp.			4,137		
Traffic exp.			1,070		
(Fixed cost total)			(42,641)		(170.56)
Full cost total	250.0x10³ t		665,731		2,662.92
For merchant & bar	250.0x10³ t		665,731		2,662.92

Full Cost

Cost Center: BT-2 & 3 CC 2.15 –MT Production 1,270x1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Molten steel	1,316.1x10³ t	2,344.82	3,086,024		2,429.94
By-product (steel)	(–) 15.7x10³ t	2,030	(–) 31,871		
By-product (skull)	(–) 19.8x10³ t	1,220	(–) 24,156		
By-product (scale)	(–) 10.6x10³ t	30	(–) 318		
(By-product total)	((–) 46.1x10³ t)		((–) 56,345)		((–) 44.37)
(Material cost)			(3,029,679)		(2,385.57)
Ladle brick	7,366 t	2,077	15,299	5.8 kg/t	
Sliding nozzle	254 t	59,200	15,037	0.2 kg/t	
Fire clay brick	6,350 t	2,077	13,189	5.0 kg/t	
Castable (Hi-Al)	3,937 t	3,800	14,961	3.1 kg/t	
Nozzle (Zircon)	63.5 t	61,500	3,905	0.05 kg/t	
(Refractory total)			(62,391)		(49.13)
LPG	381x10³ Nm³	5,434/10³	2,070	0.3 m³/t	
Repeseed oil	152,400 ℓ	11.3	1,722	120 cc/t	
Copper mould	25,400 kg	430	10,922	20.0 g/t	
Al wire	127 t	23,300	2,959	100 g/t	
Burnt paddy	381,000 kg	4.9	1,867	0.3 kg/t	
Tips	40,640 P	17.4	707	0.032 P/t	
(Sub-material cost)			(20,247)		(15.94)
Electricity	12,700 x10³ kwH		6,148	10.0 kwH/t	
Industrial water	508x10⁶ ℓ		629	0.4x10³ ℓ/t	
Gas	20,320x10⁶ kcal		2,455	16x10³ kcal/t	
Oxygen	1,270x10³ Nm³		1,293	1.0 Nm³/t	
Nitrogen	508x10³ Nm³		517	0.4 Nm³/t	
(Utilities total)			(11,042)		(8.69)
(Variable cost total)			(3,123,359)		(2,459.34)
Labour cost			4,728		
Labour cost (Rep. & maint.)			1,700		
Fixed material cost			11,908		
Depre. & interest			49,008		
Overhead exp.			7,544		
Traffic exp.			4,745		
(Fixed cost total)			(79,633)		(62.70)
Full cost total	1,270x10³ t		3,202,992		2,522.04
For No. 1 New Bar	615.0x10³ t		1,551,055		2,522.04
For No. 2 New Bar	655.0x10³ t		1,651,937		2,522.04

Full Cost

Cost Center: Blooming Mill 2.15 –MT Production 603.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Ingot steel	295.0x10³ t	2,645.25	780,348		(2,876.32)
By-product (scale)	(–) 8.9x10³ t	30	(–) 267		
By-product (steel scrap)	(–) 14.8x10³ t	2,030	(–) 30,044		
(By-product total)	((–) 23.7x10³ t)		((–) 30,311)		((–) 111.72))
(Material cost)	(271.3x10³ t)		(750,037)		((2,764.60))
* Cast bloom	335.0x10³ t	2,597.62	870,203		(2,623.47)
By-product (scale)	(–) 1.3x10³ t	30	(–) 39		
By-product (steel scrap)	(–) 2.0x10³ t	2,030	(–) 4,060		
(By-product total)	((–) 3.3x10³ t)		((–) 4,099)		((–) 12.36))
(Material cost)	(331.7x10³ t)		(866,104)		((2,611.11))
Roll	36,180 kg	20	724	0.06 kg/t	1.20
Consumable	——	——	3,280	——	5.44
Gas	230,346x10⁶ kcal		27,836	382x10³ kcal/t	
Electricity	14,942x10³ kWH		7,233	24.78 kWH/t	
Industrial water	241x10⁶ ℓ		298		
(Utilities total)			(35,367)		(58.65)
(Variable cost total)			(1,655,512)		(2,745.46)
Labour cost			3,079		
Labour cost (Rep. & maint.)			6,688		
Fixed material cost			37,328		
Depre. & interest			45,439		
Overhead exp.			7,513		
Traffic exp.			2,799		
(Fixed cost total)			(102,826)		(170.53)
Full cost total	603.0x10³ t		1,758,338		2,915.98
For billet mill (from ingot)	264.0x10³ t		792,111		3,000.42
For HSM (from BL-cc)	276.0x10³ t		785,750		2,846.93
For No. 2 New Bar (from BL-cc)	55.7x10³ t		158,574		2,846.93
For No. 2 New Bar (from ingot)	7.3x10³ t		21,903		3,000.42

Full Cost

Cost Center: Billet Mill 2.15 –MT Production 249.5 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Bloom	264.0x10³ t	3,000.42	792,111		
By-product (scale)	(–) 2.6x10³ t	30	(–) 78		
By-product (steel scrap)	(–) 11.9x10³ t	2,030	(–) 24,157		
(By-product total)	((–) 14.5x10³ t)		((–) 24,235)		((–) 97.13)
(Material cost)			(767,876)		(3,077.66)
Roll	37,425 kg	25	936	0.15 kg/t	3.75
Consumables			2,355		9.44
Electricity	6,612x10³ kwH		3,201	26.5 kwH/t	
Industrial water	508x10⁶ ℓ		223	0.4x10³ ℓ/t	
(Utilities total)			(3,424)		(13.73)
(Variable cost total)			(774,581)		(3,104.57)
Labour cost			3,063		
Labour cost (Rep. & maint.)			3,496		
Fixed material cost			15,139		
Depre. & interest			5,452		
Overhead exp.			1,635		
Traffic exp.			9,157		
(Fixed cost total)			(37,942)		(152.07)
Full cost total	249.5x10³ t		812,533		3,256.65
For merchant & bar	11.0x10³ t		35,823		3,256.65
For Sales (billet)	238.5x10³ t		776,710		3,256.65

Full Cost

Cost Center: Merchant & Bar 2.15 –MT Production 250.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Billet	11.0×10^3 t	3,256.65	35,823		
* Biller (BT-1cc)	250.0×10^3 t	2,662.92	665,731		
(Total)	(261.0×10^3 t)		(701,554)		(2,806.22)
By-product (scale)	(–) 5.2×10^3 t	30	(–) 156		
By-product (scrap)	(–) 5.8×10^3 t	2,030	(–) 11,774		
(By-product total)	((–) 11.0×10^3 t)		((–) 11,930)		((–) 47.72)
(Material cost)			(689,624)		(2,758.50)
Roll	55,000 kg	28	1,540	0.22 kg/t	6.16
Consumables			5,325		21.30
Gas	$100,000\times10^6$ kcal		12,084	400×10^2 kcal/t	
Electricity	$15,025\times10^3$ kwH		7,274	60.1 kwH/t	
Industrial water	40×10^4 ℓ		50		
Steam	40,000 t		4,035	0.16 t/t	
(Utilities total)			(23,443)		(93.77)
(Variable cost total)			(719,932)		(2,879.73)
Labour cost			4,478		
Labour cost (Rep. & maint.)			3,970		
Fixed material cost			15,165		
Depre. & interest			10,390		
Overhead exp.			2,564		
Traffic exp.			8,863		
(Fixed cost total)			(45,430)		(181.72)
Full cost total	250.0×10^3 t		765,362		3,061.45
For sales	250.0×10^3 t		765,362		3,061.45

Full Cost

Cost Center: No. 1 New Bar 2.15 –MT Production 600.0 x 1,000ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Cast billet	615.0×10^3 t	2,522.04	1,551,055		2,585.10
By-product (scale)	(–) 6.1×10^3 t	30	(–) 183		
By-product (scrap)	(–) 8.9×10^3 t	2,030	(–) 18,067		
(By-product total)	((–) 15.0×10^3 t)		((–) 18,250)		((–) 30.42)
(Material cost)			(1,532,805)		(2,554.68)
Roll	180,000 kg	28	5,040	0.3 kg/t	8.40
Consumable	—	—	12,780	—	21.30
Gas	$162,000\times10^6$ kcal		19,577	270×10^2 kcal/t	
Electricity	$54,000\times10^3$ kwH		26,141	90.0 kwH/t	
Industrial water	300×10^6 ℓ		372	0.5×10^3 ℓ/t	
(Utilities total)			(46,090)		(76.81)
(Variable cost total)			(1,596,715)		(2,661.19)
Labour cost			4,371		
Labour cost (Rep. & maint.)			6,556		
Fixed material cost			37,298		
Depre & interest			147,666		
Overhead exp.			21,583		
Traffic exp.			20,019		
(Fixed cost total)			(237,493)		(395.82)
Full cost total	600.0×10^3 t		1,834,208		3,057.01
For sales	600.0×10^3 t		1,834,208		3,057.01

Full Cost

Cost Center: No. 2 New Bar 2.15 –MT Production 700.0 x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Cast billet (BT-3)	655.0x10³ t	2,522.04	1,651,937		
* Billet (BL-1)	55.7x10³ t	2,846.93	158,574		
* Billet (ingot)	7.3x10³ t	3,000.42	21,903		
(Billet total)	(718.0x10³ t)		(1,832,414)		(2,617.74)
By-product (scale)	(–) 7.2x10³ t	30	(–) 216		
By-product (scrap)	(–) 10.8x10³ t	2,030	(–) 21,924		
(By-product total)	((–) 18.0x10³ t)		((–) 22,140)		((–) 31.63)
(Material cost)			(1,810,274)		(2,586.11)
Roll	210,000 kg	28	5,880	0.3 kg/t	8.40
Consumables	—	—	14,910	—	21.30
Gas	189,000x10⁶ kcal		22,839	270x10³ kcal	
Electricity	63,000x10³ kwH		30,498	90.0 kwH/t	
Industrial water	350x10⁶ ℓ		433	0.5x10³ ℓ/t	
(Utilities total)			(53,770)		(76.81)
(Variable cost total)			(1,884,834)		(2,692.62)
Labour cost			4,370		
Labour cost (Rep. & maint.)			7,486		
Fixed material cost			45,050		
Depre. & interest			174,791		
Overhead exp.			25,400		
Traffic exp.			23,406		
(Fixed cost total)			(280,503)		(400.72)
Full cost total	700.0x10³ t		2,165,337		3,093.34
For sales	700.0x10³ t		2,165,337		3,093.34

Full Cost

Cost Center: Heavy Structural 2.15 –MT Production 250.0x 1,000 ton

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
* Bloom	276.0x10³ t	2,846.93	785,750		3,143.00
By-product (scale)	(–) 5.4x10³ t	30	(–) 162		
By-product (steel scrap)	(–) 20.6x10³ t	2,030	(–) 41,818		
(By-product total)	((–) 26.0x10³ t)		((–) 41,980)		((–) 167.92)
(Material cost)			(743,770)		(2,975.08)
Roll	375,000 kg	20	7,500	1.5 kg/t	30.00
Consumables	—	—	6,763	—	27.05
Gas	100,000x10⁶ kcal		12,084	400x10³ kcal/t	
Electricity	29,650x10³ kwH		14,353	118.6 kwH/t	
Industrial water	220x10⁶ ℓ		272		
Steam	32,500 t		3,279	0.13 t/t	
(Utilities total)			(29,988)		(119.96)
(Variable cost total)			(788,021)		(3,152.08)
Labour cost			6,593		
Labour cost (Rep. & maint.)			4,552		
Fixed material cost			24,315		
Depre. & interest			12,643		
Overhead exp.			3,237		
Traffic exp.			10,406		
(Fixed cost total)			(61,746)		(246.99)
Full cost total	250.0x10³ t		849,767		3,399.07
For sales	250.0x10³ t		849,767		3,399.07

Full Cost

Cost Center: Gas 2.15 –MT Production 6,763,729x10⁶ kcal / 6,740,445x10⁶ kcal (distribution)

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Gas	6,740,445x10⁶ kcal	113	761,670		113.00
Labour cost			1,089		
Labour cost (Rep. & maint.)			1,767		
Fixed material cost			11,933		
Depre. & interest			38,074		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(52,863)		(7.84)
Full cost total	6,740,445x10⁶ kcal		814,533		120.84

Full Cost

Cost Center: Power Plant (Own) 2.15 –MT Generation 1,041,793x10³ kwH

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Gas	2,083,586x10⁶ kcal		251,786		
Industrial water	6,251x10⁶ ℓ		7,738		
Electricity	10,418x10³ kwH	0.484	5,033		
(Variable cost total)			(264,557)		(0.254)
Labour cost			3,193		
Labour cost (Rep. & maint.)			5,722		
Fixed material cost			37,808		
Depre. & interest			141,326		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(188,049)		(0.180)
Full cost total	1,041,793x10³ kwH		452,606		0.434

Full Cost

Purchase 0

Own Generation 1,041,793x10³ kwH

Cost Center: Power Distribution 2.15 –MT Distribution 990,843x10³ kwH

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Purchased	0		0		
Own	1,041,793x10³ kwH	0.434	452,606		
(Variable cost total)			(452,606)		(0.457)
Labour cost			724		
Labour cost (Rep. & maint.)			837		
Fixed material cost			5,475		
Depre. & interest			20,022		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(27,058)		(0.027)
Full cost total	990,843x10³ kwH		479,664		0.484

Full Cost

Cost Center: Industrial Water 2.15 –MT Distribution 22,873x10⁶ ℓ

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	10,132x10³ kwH		4,905		
Consumables			12,900		
(Variable cost total)			(17,805)		(0.778)
Labour cost			867		
Labour cost (Rep. & maint.)			685		
Fixed material cost			3,263		
Depre. & interest			5,707		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(10,522)		(0.460)
Full cost total	22,873x10⁶ ℓ		28,327		1.238

Full Cost

Cost Center: Steam 2.15 –MT Generation 821,374 t Distribution 786,994 t

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Coal	179,676 t	356	63,965		
Electricity	6,325x10³ kwH		3,062		
Filtered water	739x10⁶ ℓ		586		
Steam	72,198 t	100.69	7,284		
(Variable cost total)			(74,897)		(95.17)
Labour cost			—		
Labour cost (Rep. & maint.)			482		
Fixed material cost			4,018		
Depre. & interest			—		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(4,500)		(5.72)
Full cost total	786,994 t		79,397		100.89

Full Cost

Cost Center: Filtered Water 2.15 –MT Distribution 9,409x10⁶ ℓ

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	8,270x10³ kwH		4,003		0.425
Labour cost			578		
Labour cost (Rep. & maint.)			392		
Fixed material cost			1,637		
Depre. & interest			853		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(3,460)		(0.368)
Full cost total	9,409x10⁶ ℓ		7,463		0.793

Full Cost

Cost Center: Oxygen & Nitrogen 2.15 –MT Generation 183,944x10³ Nm³ Distribution 181,229x10³ Nm³

Item	Quantity	Unit Price (Rs.)	Amount (1,000 Rs.)	Unit Consumpt.	Unit Cost Rs./ton
Electricity	129,000x10³ kwH		62,448		
Industrial water	1,720x10⁶ ℓ		2,130		
(Variable cost total)			(64,578)		(0.356)
Labour cost			1,120		
Labour cost (Rep. & maint.)			3,280		
Fixed material cost			24,551		
Depre. & interest			90,974		
Overhead exp.			—		
Traffic exp.			—		
(Fixed cost total)			(119,925)		(0.662)
Full cost total	181,229x10³ Nm³		184,503		1.018

6. Financial Analysis

(1) Base Case
(2) Sensitivity Analysis Case-1
(3) Sensitivity Analysis Case-4-1

(1) Base Case

** FINANCIAL STATEMENT OF BURNPUR WORKS (UNIT:LAKHS) PAGE 1 (87/02/13)

CASE BASE (1LAKHS=100,000RUPEES)

*** P / L ***	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
SALES	0	0	0	0	0	0	46,909	95,061	95,061	95,061	95,061
VARIABLE COST	0	0	0	0	0	0	24,537	49,370	49,370	49,370	49,370
MANUFACTUR.COST	0	0	0	0	0	0	16,482	31,295	31,295	31,295	31,295
SELLING EXP.	0	0	0	0	0	0	8,055	18,075	18,075	18,075	18,075
EXCISE DUTY	0	0	0	0	0	0	3,457	7,461	7,461	7,461	7,461
SDF	0	0	0	0	0	0	3,696	8,473	8,473	8,473	8,473
EGEAF	0	0	0	0	0	0	860	2,038	2,038	2,038	2,038
JPC	0	0	0	0	0	0	43	102	102	102	102
FIXED COST	0	0	0	0	0	0	17,927	28,651	28,651	28,651	28,651
LABOR	0	0	0	0	0	0	3,881	3,240	3,240	3,240	3,240
DEPRECIATIONS	0	0	0	0	0	0	9,220	17,368	17,368	17,368	17,368
B.F.RELINING	0	0	0	0	0	0	203	406	406	406	406
FIXED MATERIAL	0	0	0	0	0	0	3,365	6,269	6,269	6,269	6,269
OTHER FIXED EXP.	0	0	0	0	0	0	1,259	1,368	1,368	1,368	1,368
OPERATING COST	0	0	0	0	0	0	42,465	78,021	78,021	78,021	78,021
OPERATING INCOME	0	0	0	0	0	0	4,444	17,039	17,039	17,039	17,039
INTEREST INCOME	0	0	0	0	0	0	8	32	65	97	130
INTEREST PAID	16	59	267	833	2,193	4,774	7,331	7,864	7,156	6,482	5,744
SHORT TERM LOAN	0	0	0	0	0	0	156	156	0	0	0
SDF LOAN	0	0	0	0	110	1,032	2,491	3,136	3,081	2,905	2,664
(STEP1)	(0)(	0)(	0)(	0)(	110)(	828)(	1,488)(	1,438)(	1,382)(	1,272)(	1,161)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	204)(	1,053)(	1,699)(	1,699)(	1,633)(	1,503)
FOREIGN LOAN	16	59	267	833	2,083	3,741	4,685	4,572	4,075	3,577	3,080
(STEP1)	(16)(	44)(	226)(	635)(	1,521)(	2,470)(	2,704)(	2,427)(	2,150)(	1,872)(	1,595)
(STEP2)	(0)(	14)(	41)(	198)(	562)(	1,272)(	1,980)(	2,145)(	1,925)(	1,705)(	1,485)
I.D.C.	16	59	267	833	2,193	4,774	3,034	0	0	0	0
(STEP1)	(16)(	44)(	226)(	635)(	1,630)(	3,298)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	14)(	41)(	198)(	562)(	1,475)(	3,034)(	0)(	0)(	0)(	0)
INCOME BEFORE TAX	0	0	0	0	0	0	155	9,208	9,949	10,654	11,425
LOSS BROUGHT FWD.	0	0	0	0	0	0	0	0	0	0	0
TAXABLE INCOME	0	0	0	0	0	0	155	9,208	9,949	10,654	11,425
INCOME TAX	0	0	0	0	0	0	77	4,604	4,974	5,327	5,713
INCOME AFTER TAX	0	0	0	0	0	0	77	4,604	4,974	5,327	5,713
ACCUMULATED INCOME	0	0	0	0	0	0	77	4,681	9,656	14,983	20,695

CASE BASE (1LAKHS=100,000RUPEES)

*** B / S ***	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
DEPO(RELINING)	0	0	0	0	0	0	203	609	1,015	1,421	1,827
CASH-IN-HAND	0	0	0	0	0	0	391	792	792	792	792
EXCESS CASH	0	0	0	0	0	0	0	8,572	21,021	32,172	43,741
ACCT. RECEIVABLE	0	0	0	0	0	0	3,909	7,922	7,922	7,922	7,922
LIQUID ASSETS	0	0	0	0	0	0	4,503	17,895	30,750	42,307	54,282
FINISHED GOODS	0	0	0	0	0	0	1,955	3,961	3,961	3,961	3,961
WORK-IN-PROCESS	0	0	0	0	0	0	782	1,584	1,584	1,584	1,584
MATERIALS,SUPPLIES	0	0	0	0	0	0	1,564	3,169	3,169	3,169	3,169
SPARES&STORES	0	0	0	0	0	0	3,087	5,243	5,243	5,243	5,243
CURRENT ASSETS	0	0	0	0	0	0	11,890	31,852	44,707	56,264	68,239
1.LAND	0	2,008	4,016	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737
2.BUILDINGS	0	0	1,151	5,729	12,016	14,795	15,040	14,565	14,069	13,584	13,098
3.MACHINERY	0	0	13,033	44,509	115,552	178,149	185,635	171,534	157,433	143,332	129,231.
4.VEHICLES	0	0	0	54	537	3,160	5,864	5,585	5,305	5,025	4,746
5.INVENTORIES	0	0	0	0	0	3,087	2,156	0	0	0	0
6.PRE-OPERAT. EXP.	808	2,202	3,444	4,686	5,938	7,823	8,069	7,215	6,361	5,508	4,654
7.I.D.C.	16	74	341	1,174	3,366	8,140	10,589	9,471	8,354	7,237	6,119
OLD PLANT	0	0	0	0	0	8,588	8,057	7,526	6,995	6,464	5,933
FIXED ASSETS	824	4,284	21,985	61,889	143,146	229,479	241,147	221,623	204,255	186,886	169,518
ASSETS TOTAL	824	4,284	21,985	61,889	143,146	229,479	253,037	253,475	248,961	243,150	237,757
ACCOUNT PAYABLE	0	0	0	0	0	0	1,955	3,961	3,961	3,961	3,961
RESERVE FOR TAX	0	0	0	0	0	0	77	4,604	4,974	5,327	5,713
SHORT LOAN	0	0	0	0	0	0	2,223	0	0	0	0
CURRENT LIABILITIES	0	0	0	0	0	0	4,256	8,565	8,935	9,288	9,674
RESERVE(RELINING)	0	0	0	0	0	0	203	609	1,015	1,421	1,827
SDF LOAN	0	0	0	0	2,740	23,069	39,206	39,206	37,824	34,808	31,792
(STEP1)	(0)(	0)(	0)(	0)(	2,740)(	17,972)(	17,972)(	17,972)(	16,590)(	15,207)(	13,825)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	5,097)(	21,234)(	21,234)(	21,234)(	19,601)(	17,967)
FOREIGN LOAN	556	1,541	7,980	21,762	52,640	80,976	83,861	74,979	66,098	57,217	48,335
(STEP1)	(556)(	1,030)(	7,030)(	15,640)(	38,674)(	49,529)(	44,576)(	39,623)(	34,670)(	29,717)(	24,764)
(STEP2)	(0)(	511)(	950)(	6,121)(	13,966)(	31,447)(	39,285)(	35,356)(	31,428)(	27,499)(	23,571)
FIXED LIABILITIES	556	1,541	7,980	21,762	55,379	104,045	123,270	114,795	104,937	93,445	81,954
LIABILITIES TOTAL	556	1,541	7,980	21,762	55,379	104,045	127,525	123,359	113,872	102,733	91,628
CAPITAL STOCK	268	2,743	14,005	40,127	87,767	125,434	125,434	125,434	125,434	125,434	125,434
RETAINED EARNING	0	0	0	0	0	0	77	4,681	9,656	14,983	20,695
EQUITY	268	2,743	14,005	40,127	87,767	125,434	125,511	130,115	135,090	140,417	146,129
LIABILITY&EQUITY	824	4,284	21,985	61,889	143,146	229,479	253,037	253,475	248,961	243,150	237,757

** FINANCIAL STATEMENT OF BURNPUR WORKS (UNIT:LAKHS)

CASE BASE (1LAKHS=100,000RUPEES)

*** C / F ***	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
INCOME BEFORE TAX	0	0	0	0	0	0	155	9,208	9,949	10,654	11,425
DEPRECIATIONS	0	0	0	0	0	0	9,220	17,368	17,368	17,368	17,368
B.F.RELINING	0	0	0	0	0	0	203	406	406	406	406
RELEASE(RELINING)	0	0	0	0	0	0	0	0	0	0	0
CAPITAL STOCK	268	2,475	11,262	26,122	47,640	37,667	0	0	0	0	0
(STEP1)	(268)(	2,224)(	11,064)(	16,421)(	31,675)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	251)(	198)(	9,701)(	15,965)(	29,079)(	0)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	8,588)(	0)(	0)(	0)(	0)(	0)
SDF LOAN	0	0	0	0	2,740	20,329	16,137	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	2,740)(	15,232)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	5,097)(	16,137)(	0)(	0)(	0)(	0)
FOREIGN LOAN	556	986	6,439	13,782	30,878	28,336	7,837	0	0	0	0
(STEP1)	(556)(	474)(	6,000)(	8,611)(	23,034)(	10,855)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	511)(	439)(	5,171)(	7,844)(	17,482)(	7,837)(	0)(	0)(	0)(	0)
SHORT LOAN	0	0	0	0	0	0	2,223	0	0	0	0
SOURCES OF FUNDS	824	3,461	17,701	39,904	81,258	86,333	35,776	26,982	27,723	28,428	29,199
INVESTMENTS	824	3,461	17,701	39,904	81,258	86,333	23,975	0	0	0	0
(STEP1 PLANT)	(808)(	2,654)(	16,838)(	24,397)(	55,818)(	22,789)(	0)(	0)(	0)(	0)(	0)
(I.D.C.)	(16)(	44)(	226)(	635)(	1,630)(	3,298)(	0)(	0)(	0)(	0)(	0)
(STEP2 PLANT)	(0)(	748)(	596)(	14,674)(	23,247)(	50,182)(	20,941)(	0)(	0)(	0)(	0)
(I.D.C.)	(0)(	14)(	41)(	198)(	562)(	1,475)(	3,034)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	8,588)(	0)(	0)(	0)(	0)(	0)
REPAY SDF	0	0	0	0	0	0	0	0	1,382	3,016	3,016
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	1,382)(	1,382)(	1,382)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	1,633)(	1,633)
REPAY FOREIGN	0	0	0	0	0	0	4,953	8,881	8,881	8,881	8,881
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	4,953)(	4,953)(	4,953)(	4,953)(	4,953)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	3,928)(	3,928)(	3,928)(	3,928)
B.F.RELINING EXP.	0	0	0	0	0	0	0	0	0	0	0
RESERVE(RELINING)	0	0	0	0	0	0	203	406	406	406	406
REPAY SHORT	0	0	0	0	0	0	0	2,223	0	0	0
EXCESS CASH	0	0	0	0	0	0	0	8,572	12,449	11,151	11,569
TAX	0	0	0	0	0	0	0	77	4,604	4,974	5,327
WORKING CAPITAL	0	0	0	0	0	0	6,645	6,821	0	0	0
APPLICATIONS TOTAL	824	3,461	17,701	39,904	81,258	86,333	35,776	26,982	27,723	28,428	29,199
CASHFLOW(BEF.TAX)	-808	-3,402	-17,434	-39,071	-79,065	-81,559	-13,914	27,618	34,472	34,505	34,537
CASHFLOW(AFT.TAX)	-808	-3,402	-17,434	-39,071	-79,065	-81,559	-13,914	27,541	29,868	29,530	29,210
CASHFLOW(R.O.E.)	-268	-2,475	-11,262	-26,122	-47,640	-37,667	0	8,572	12,449	11,151	11,569

CASE BASE (1LAKHS=100,000RUPEES)

*** P / L ***	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
SALES	95,061	95,061	80,339	80,339	95,061	95,061	95,061	95,061	95,061	95,061	80,339
VARIABLE COST	49,370	49,370	41,523	41,523	49,370	49,370	49,370	49,370	49,370	49,370	41,523
MANUFACTUR.COST	31,295	31,295	26,294	26,294	31,295	31,295	31,295	31,295	31,295	31,295	26,294
SELLING EXP.	18,075	18,075	15,229	15,229	18,075	18,075	18,075	18,075	18,075	18,075	15,229
EXCISE DUTY	7,461	7,461	6,279	6,279	7,461	7,461	7,461	7,461	7,461	7,461	6,279
SDF	8,473	8,473	7,146	7,146	8,473	8,473	8,473	8,473	8,473	8,473	7,146
EGEAF	2,038	2,038	1,718	1,718	2,038	2,038	2,038	2,038	2,038	2,038	1,718
JPC	102	102	86	86	102	102	102	102	102	102	86
FIXED COST	28,651	28,651	28,651	28,651	28,651	27,598	26,680	26,680	18,915	12,140	12,140
LABOR	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240
DEPRECIATIONS	17,368	17,368	17,368	17,368	17,368	16,315	15,397	15,397	7,632	857	857
B.F.RELINING	406	406	406	406	406	406	406	406	406	406	406
FIXED MATERIAL	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269
OTHER FIXED EXP.	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368
OPERATING COST	78,021	78,021	70,174	70,174	78,021	76,968	76,050	76,050	68,285	61,511	53,664
OPERATING INCOME	17,039	17,039	10,165	10,165	17,039	18,092	19,010	19,010	26,775	33,550	26,676
INTEREST INCOME	162	195	162	65	32	65	97	130	162	195	162
INTEREST PAID	5,005	4,267	3,528	2,789	2,051	1,381	975	734	493	251	65
SHORT TERM LOAN	0	0	0	0	0	0	0	0	0	0	0
SDF LOAN	2,423	2,181	1,940	1,699	1,458	1,216	975	734	493	251	65
(STEP1)	(1,051)(	940)(	829)(	719)(	608)(	498)(	387)(	276)(	166)(	55)(	0)
(STEP2)	(1,372)(	1,241)(	1,111)(	980)(	849)(	719)(	588)(	457)(	327)(	196)(	65)
FOREIGN LOAN	2,582	2,085	1,588	1,090	593	165	0	0	0	0	0
(STEP1)	(1,317)(	1,040)(	763)(	485)(	208)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(1,265)(	1,045)(	825)(	605)(	385)(	165)(	0)(	0)(	0)(	0)(	0)
I.D.C.	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
INCOME BEFORE TAX	12,196	12,968	6,800	7,441	15,021	16,776	18,133	18,406	26,445	33,494	26,773
LOSS BROUGHT FWD.	0	0	0	0	0	0	0	0	0	0	0
TAXABLE INCOME	12,196	12,968	6,800	7,441	15,021	16,776	18,133	18,406	26,445	33,494	26,773
INCOME TAX	6,098	6,484	3,400	3,720	7,511	8,388	9,066	9,203	13,223	16,747	13,387
INCOME AFTER TAX	6,098	6,484	3,400	3,720	7,511	8,388	9,066	9,203	13,223	16,747	13,387
ACCUMULATED INCOME	26,794	33,277	36,677	40,398	47,908	56,296	65,363	74,566	87,788	104,535	117,922

CASE BASE (1LAKHS=100,000RUPEES)

*** B / S ***	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
DEPO(RELINING)	2,233	2,639	1,421	203	609	1,015	1,421	1,827	2,233	2,639	1,421
CASH-IN-HAND	792	792	669	669	792	792	792	792	792	792	669
EXCESS CASH	55,696	68,036	75,908	85,420	100,106	118,742	140,868	162,589	184,447	202,559	213,895
ACCT. RECEIVABLE	7,922	7,922	6,695	6,695	7,922	7,922	7,922	7,922	7,922	7,922	6,695
LIQUID ASSETS	66,642	79,389	84,693	92,987	109,429	128,471	151,002	173,130	195,394	213,912	222,680
FINISHED GOODS	3,961	3,961	3,347	3,347	3,961	3,961	3,961	3,961	3,961	3,961	3,347
WORK-IN-PROCESS	1,584	1,584	1,339	1,339	1,584	1,584	1,584	1,584	1,584	1,584	1,339
MATERIALS,SUPPLIES	3,169	3,169	2,678	2,678	3,169	3,169	3,169	3,169	3,169	3,169	2,678
SPARES&STORES	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243
CURRENT ASSETS	80,599	93,346	97,301	105,595	123,386	142,428	164,959	187,086	209,351	227,869	235,288
1.LAND	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737
2.BUILDINGS	12,613	12,128	11,642	11,157	10,672	10,186	9,701	9,216	8,730	8,245	7,760
3.MACHINERY	115,130	101,029	86,928	72,827	58,726	44,625	30,524	16,423	9,648	9,648	9,648
4.VEHICLES	4,466	4,187	3,907	3,627	3,348	3,068	2,788	2,509	2,229	1,949	1,670
5.INVENTORIES	0	0	0	0	0	0	0	0	0	0	0
6.PRE-OPERAT. EXP.	3,800	2,947	2,093	1,239	385	0	0	0	0	0	0
7.I.D.C.	5,002	3,885	2,767	1,650	532	0	0	0	0	0	0
OLD PLANT	5,402	4,871	4,340	3,809	3,278	2,747	2,216	1,685	1,593	1,501	1,408
FIXED ASSETS	152,150	134,782	117,414	100,046	82,678	66,363	50,966	35,570	27,938	27,080	26,223
ASSETS TOTAL	232,750	228,128	214,715	205,641	206,064	208,791	215,926	222,656	237,288	254,949	261,511
ACCOUNT PAYABLE	3,961	3,961	3,347	3,347	3,961	3,961	3,961	3,961	3,961	3,961	3,347
RESERVE FOR TAX	6,098	6,484	3,400	3,720	7,511	8,388	9,066	9,203	13,223	16,747	13,387
SHORT LOAN	0	0	0	0	0	0	0	0	0	0	0
CURRENT LIABILITIES	10,059	10,445	6,747	7,068	11,471	12,349	13,027	13,164	17,183	20,708	16,734
RESERVE(RELINING)	2,233	2,639	1,421	203	609	1,015	1,421	1,827	2,233	2,639	1,421
SDF LOAN	28,776	25,760	22,744	19,729	16,713	13,697	10,681	7,665	4,649	1,633	0
(STEP1)	(12,442)(	11,060)(	9,677)(	8,295)(	6,912)(	5,530)(	4,147)(	2,765)(	1,382)(	0)(	0)
(STEP2)	(16,334)(	14,701)(	13,067)(	11,434)(	9,800)(	8,167)(	6,534)(	4,900)(	3,267)(	1,633)(	0)
FOREIGN LOAN	39,454	30,573	21,691	12,810	3,928	0	0	0	0	0	0
(STEP1)	(19,812)(	14,859)(	9,906)(	4,953)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(19,642)(	15,714)(	11,785)(	7,857)(	3,928)(	0)(	0)(	0)(	0)(	0)(	0)
FIXED LIABILITIES	70,463	58,972	45,857	32,741	21,250	14,712	12,102	9,492	6,882	4,272	1,421
LIABILITIES TOTAL	80,522	69,416	52,604	39,809	32,722	27,061	25,129	22,656	24,066	24,980	18,155
CAPITAL STOCK	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434
RETAINED EARNING	26,794	33,277	36,677	40,398	47,908	56,296	65,363	74,566	87,788	104,535	117,922
EQUITY	152,228	158,711	162,111	165,832	173,342	181,730	190,797	200,000	213,222	229,969	243,356
LIABILITY&EQUITY	232,750	228,128	214,715	205,641	206,064	208,791	215,926	222,656	237,288	254,949	261,511

CASE BASE (1LAKHS=100,000RUPEES)

*** C / F ***	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
INCOME BEFORE TAX	12,196	12,968	6,800	7,441	15,021	16,776	18,133	18,406	26,445	33,494	26,773
DEPRECIATIONS	17,368	17,368	17,368	17,368	17,368	16,315	15,397	15,397	7,632	857	857
B.F.RELINING	406	406	406	406	406	406	406	406	406	406	406
RELEASE(RELINING)	0	0	1,624	1,624	0	0	0	0	0	0	1,624
CAPITAL STOCK	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
SDF LOAN	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
FOREIGN LOAN	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
SHORT LOAN	0	0	0	0	0	0	0	0	0	0	0
SOURCES OF FUNDS	29,971	30,742	26,198	26,839	32,795	33,497	33,936	34,209	34,483	34,757	29,660
INVESTMENTS	0	0	0	0	0	0	0	0	0	0	0
(STEP1 PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(I.D.C.)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2 PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(I.D.C.)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
REPAY SDF	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	1,633
(STEP1)	(1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	0)
(STEP2)	(1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)
REPAY FOREIGN	8,881	8,881	8,881	8,881	8,821	3,928	0	0	0	0	0
(STEP1)	(4,953)(	4,953)(	4,953)(	4,953)(	4,953)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(3,928)(	3,928)(	3,928)(	3,928)(	3,928)(	3,928)(	0)(	0)(	0)(	0)(	0)
B.F.RELINING EXP.	0	0	1,624	1,624	0	0	0	0	0	0	1,624
RESERVE(RELINING)	406	406	406	406	406	406	406	406	406	406	406
REPAY SHORT	0	0	0	0	0	0	0	0	0	0	0
EXCESS CASH	11,955	12,340	7,872	9,512	14,686	18,636	22,126	21,721	21,858	18,112	11,336
TAX	5,713	6,098	6,484	3,400	3,720	7,511	8,388	9,066	9,203	13,223	16,747
WORKING CAPITAL	0	0	-2,085	0	2,085	0	0	0	0	0	-2,085
APPLICATIONS TOTAL	29,971	30,742	26,198	26,839	32,795	33,497	33,936	34,209	34,483	34,757	29,660
CASHFLOW(BEF.TAX)	34,570	34,602	29,781	27,598	32,354	34,472	34,505	34,537	34,570	34,602	29,781
CASHFLOW(AFT.TAX)	28,857	28,504	23,297	24,198	28,634	26,962	26,117	25,471	25,366	21,380	13,034
CASHFLOW(R.O.E.)	11,955	12,340	7,872	9,512	14,686	18,636	22,126	21,721	21,858	18,112	11,336

CASE BASE (1LAKHS=100,000RUPEES)

*** P / L ***	2009	2010	2011	2012	TOTAL
SALES	80,339	95,061	95,061	95,061	1,794,176
VARIABLE COST	41,523	49,370	49,370	49,370	931,184
MANUFACTUR.COST	26,294	31,295	31,295	31,295	591,086
SELLING EXP.	15,229	18,075	18,075	18,075	340,098
EXCISE DUTY	6,279	7,461	7,461	7,461	140,494
SDF	7,146	8,473	8,473	8,473	159,379
EGEAF	1,718	2,038	2,038	2,038	38,309
JPC	86	102	102	102	1,915
FIXED COST	12,140	12,140	12,140	12,140	448,503
LABOR	3,240	3,240	3,240	3,240	65,437
DEPRECIATIONS	857	857	857	857	225,417
B.F.RELINING	406	406	406	406	7,917
FIXED MATERIAL	6,269	6,269	6,269	6,269	122,485
OTHER FIXED EXP.	1,368	1,368	1,368	1,368	27,247
OPERATING COST	53,664	61,511	61,511	61,511	1,379,686
OPERATING INCOME	26,676	33,550	33,550	33,550	414,490
INTEREST INCOME	65	32	65	97	2,022
INTEREST PAID	0	0	0	0	64,256
SHORT TERM LOAN	0	0	0	0	311
SDF LOAN	0	0	0	0	28,855
(STEP1)	(0)(	0)(	0)(	0)(	13,159)
(STEP2)	(0)(	0)(	0)(	0)(	15,696)
FOREIGN LOAN	0	0	0	0	35,090
(STEP1)	(0)(	0)(	0)(	0)(	19,472)
(STEP2)	(0)(	0)(	0)(	0)(	15,617)
I.D.C.	0	0	0	0	11,174
(STEP1)	(0)(	0)(	0)(	0)(	5,849)
(STEP2)	(0)(	0)(	0)(	0)(	5,325)
INCOME BEFORE TAX	26,741	33,582	33,615	33,647	363,429
LOSS BROUGHT FWD.	0	0	0	0	0
TAXABLE INCOME	26,741	33,582	33,615	33,647	363,429
INCOME TAX	13,370	16,791	16,807	16,824	181,715
INCOME AFTER TAX	13,370	16,791	16,807	16,824	181,715
ACCUMULATED INCOME	131,292	148,083	164,891	181,715	

CASE BASE (1LAKHS=100,000RUPEES)

*** B / S ***	2009	2010	2011	2012	TOTAL
DEPO(RELINING)	203	609	1,015	1,421	
CASH-IN-HAND	669	792	792	792	
EXCESS CASH	229,107	247,090	264,771	282,469	
ACCT. RECEIVABLE	6,695	7,922	7,922	7,922	
LIQUID ASSETS	235,674	256,413	274,500	292,603	
FINISHED GOODS	3,347	3,961	3,961	3,961	
WORK-IN-PROCESS	1,339	1,584	1,584	1,584	
MATERIALS,SUPPLIES	2,678	3,169	3,169	3,169	
SPARES&STORES	5,243	5,243	5,243	5,243	
CURRENT ASSETS	248,281	270,370	288,467	306,560	
1.LAND	5,737	5,737	5,737	5,737	
2.BUILDINGS	7,274	6,789	6,304	5,818	
3.MACHINERY	9,648	9,648	9,648	9,648	
4.VEHICLES	1,390	1,111	831	551	
5.INVENTORIES	0	0	0	0	
6.PRE-OPERAT. EXP.	0	0	0	0	
7.I.D.C.	0	0	0	0	
OLD PLANT	1,316	1,224	1,132	1,039	
FIXED ASSETS	25,366	24,508	23,651	22,794	
ASSETS TOTAL	273,647	294,878	312,108	329,354	
ACCOUNT PAYABLE	3,347	3,961	3,961	3,961	
RESERVE FOR TAX	13,370	16,791	16,807	16,824	
SHORT LOAN	0	0	0	0	
CURRENT LIABILITIES	16,718	20,752	20,768	20,785	
RESERVE(RELINING)	203	609	1,015	1,421	
SDF LOAN	0	0	0	0	
(STEP1)	(0)(	0)(	0)(	0)	
(STEP2)	(0)(	0)(	0)(	0)	
FOREIGN LOAN	0	0	0	0	
(STEP1)	(0)(	0)(	0)(	0)	
(STEP2)	(0)(	0)(	0)(	0)	
FIXED LIABILITIES	203	609	1,015	1,421	
LIABILITIES TOTAL	16,921	21,361	21,783	22,206	
CAPTTAL STOCK	125,434	125,434	125,434	125,434	
RETAINED EARNING	131,292	148,083	164,891	181,715	
EQUITY	256,726	273,517	290,325	307,149	
LIABILITY&EQUITY	273,647	294,879	312,108	329,354	

CASE BASE (1LAKHS=100,000RUPEES)

*** C / F ***	2009	2010	2011	2012	TOTAL
INCOME BEFORE TAX	26,741	33,582	33,615	33,647	363,429
DEPRECIATIONS	857	857	857	857	225,417
B.F.RELINING	406	406	406	406	7,917
RELEASE(RELINING)	1,624	0	0	0	6,496
CAPITAL STOCK	0	0	0	0	125,434
(STEP1)	(0)(	0)(	0)(	0)(	61,652)
(STEP2)	(0)(	0)(	0)(	0)(	55,194)
(OLD PLANT)	(0)(	0)(	0)(	0)(	8,588)
SDF LOAN	0	0	0	0	39,206
(STEP1)	(0)(	0)(	0)(	0)(	17,972)
(STEP2)	(0)(	0)(	0)(	0)(	21,234)
FOREIGN LOAN	0	0	0	0	88,814
(STEP1)	(0)(	0)(	0)(	0)(	49,529)
(STEP2)	(0)(	0)(	0)(	0)(	39,285)
SHORT LOAN	0	0	0	0	2,223
SOURCES OF FUNDS	29,628	34,846	34,878	34,911	858,936
INVESTMENTS	0	0	0	0	253,454
(STEP1 PLANT)	(0)(	0)(	0)(	0)(	123,304)
(I.D.C.)	(0)(	0)(	0)(	0)(	5,849)
(STEP2 PLANT)	(0)(	0)(	0)(	0)(	110,388)
(I.D.C.)	(0)(	0)(	0)(	0)(	5,325)
(OLD PLANT)	(0)(	0)(	0)(	0)(	8,588)
REPAY SDF	0	0	0	0	39,206
(STEP1)	(0)(	0)(	0)(	0)(	17,972)
(STEP2)	(0)(	0)(	0)(	0)(	21,234)
REPAY FOREIGN	0	0	0	0	88,814
(STEP1)	(0)(	0)(	0)(	0)(	49,529)
(STEP2)	(0)(	0)(	0)(	0)(	39,285)
B.F.RELINING EXP.	1,624	0	0	0	6,496
RESERVE(RELINING)	406	406	406	406	7,917
REPAY SHORT	0	0	0	0	2,223
EXCESS CASH	14,212	18,984	17,681	17,697	282,469
TAX	13,387	13,370	16,791	16,807	164,891
WORKING CAPITAL	0	2,085	0	0	13,467
APPLICATIONS TOTAL	29,628	34,846	34,878	34,911	858,936
CASHFLOW(BEF.TAX)	27,598	32,854	34,472	77,429	429,107
CASHFLOW(AFT.TAX)	14,212	18,984	17,681	43,798	247,392
CASHFLOW(R.O.E.)	14,212	18,984	17,681	42,377	181,715

CASE BASE (1LAKHS=100,000RUPEES)

DETAILS	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
PRICE (RS/TON)											
HSM BILLET	0	0	0	0	0	0	3940	3940	3940	3940	3940
HSM JOISTS	0	0	0	0	0	0	6360	6360	6360	6360	6360
HSM ANGLES	0	0	0	0	0	0	5990	5990	5990	5990	5990
MERCHANT	0	0	0	0	0	0	4600	4600	4600	4600	4600
NEW BAR 1	0	0	0	0	0	0	4680	4680	4680	4680	4680
NEW BAR 2	0	0	0	0	0	0	4600	4600	4600	4600	4600
BLACK PLATE	0	0	0	0	0	0	7335	7335	7335	7335	7335
GALVANIZED	0	0	0	0	0	0	11190	11190	11190	11190	11190
BILLET	0	0	0	0	0	0	3940	3940	3940	3940	3940
PIG IRON	0	0	0	0	0	0	2620	2620	2620	2620	2620
LUMP COKE	0	0	0	0	0	0	1409	1409	1409	1409	1409
VOLUME (1000TON)											
HSM BILLET	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00
HSM JOISTS	0.00	0.00	0.00	0.00	0.00	0.00	75.00	75.00	75.00	75.00	75.00
HSM ANGLES	0.00	0.00	0.00	0.00	0.00	0.00	75.00	75.00	75.00	75.00	75.00
MERCHANT	0.00	0.00	0.00	0.00	0.00	0.00	250.00	250.00	250.00	250.00	250.00
NEW BAR 1	0.00	0.00	0.00	0.00	0.00	0.00	254.00	600.00	600.00	600.00	600.00
NEW BAR 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	700.00	700.00	700.00	700.00
BLACK PLATE	0.00	0.00	0.00	0.00	0.00	0.00	70.00	0.00	0.00	0.00	0.00
GALVANIZED	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00
BILLET	0.00	0.00	0.00	0.00	0.00	0.00	5.60	238.50	238.50	238.50	238.50
PIG IRON	0.00	0.00	0.00	0.00	0.00	0.00	39.30	26.00	26.00	26.00	26.00
LUMP COKE	0.00	0.00	0.00	0.00	0.00	0.00	41.00	0.00	0.00	0.00	0.00
SALES											
HSM BILLET	0	0	0	0	0	0	3,940	3,940	3,940	3,940	3,940
HSM JOISTS	0	0	0	0	0	0	4,770	4,770	4,770	4,770	4,770
HSM ANGLES	0	0	0	0	0	0	4,492	4,492	4,492	4,492	4,492
MERCHANT	0	0	0	0	0	0	11,500	11,500	11,500	11,500	11,500
NEW BAR 1	0	0	0	0	0	0	11,887	28,080	28,080	28,080	28,080
NEW BAR 2	0	0	0	0	0	0	0	32,200	32,200	32,200	32,200
BLACK PLATE	0	0	0	0	0	0	5,135	0	0	0	0
GALVANIZED	0	0	0	0	0	0	3,357	0	0	0	0
BILLET	0	0	0	0	0	0	221	9,397	9,397	9,397	9,397
PIG IRON	0	0	0	0	0	0	1,030	681	681	681	681
LUMP COKE	0	0	0	0	0	0	578	0	0	0	0
REVENUE	0	0	0	0	0	0	46,909	95,061	95,061	95,061	95,061

CASE BASE (1LAKHS=100,000RUPEES)

DETAILS	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
EXCISE DUTY(RS/TON)											
HSM BILLET	0	0	0	0	0	0	365	365	365	365	365
HSM JOISTS	0	0	0	0	0	0	365	365	365	365	365
HSM ANGLES	0	0	0	0	0	0	365	365	365	365	365
MERCHANT	0	0	0	0	0	0	365	365	365	365	365
NEW BAR 1	0	0	0	0	0	0	365	365	365	365	365
NEW BAR 2	0	0	0	0	0	0	365	365	365	365	365
BLACK PLATE	0	0	0	0	0	0	500	500	500	500	500
GALVANIZED	0	0	0	0	0	0	935	935	935	935	935
BILLET	0	0	0	0	0	0	365	365	365	365	365
PIG IRON	0	0	0	0	0	0	80	80	80	80	80
LUMP COKE	0	0	0	0	0	0	54	54	54	54	54
EXCISE DUTY	0	0	0	0	0	0	3,457	7,461	7,461	7,461	7,461
SDF (RS/TON)											
HSM BILLET	0	0	0	0	0	0	450	450	450	450	450
HSM JOISTS	0	0	0	0	0	0	500	500	500	500	500
HSM ANGLES	0	0	0	0	0	0	500	500	500	500	500
MERCHANT	0	0	0	0	0	0	400	400	400	400	400
NEW BAR 1	0	0	0	0	0	0	400	400	400	400	400
NEW BAR 2	0	0	0	0	0	0	400	400	400	400	400
BLACK PLATE	0	0	0	0	0	0	500	500	500	500	500
GALVANIZED	0	0	0	0	0	0	350	350	350	350	350
BILLET	0	0	0	0	0	0	450	450	450	450	450
PIG IRON	0	0	0	0	0	0	0	0	0	0	0
SDF	0	0	0	0	0	0	3,696	8,473	8,473	8,473	8,473

CASE BASE (1LAKHS=100,000RUPEES)

DETAILS	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
EGEAF (RS/TON)											
HSM BILLET	0	0	0	0	0	0	100	100	100	100	100
HSM JOISTS	0	0	0	0	0	0	100	100	100	100	100
HSM ANGLES	0	0	0	0	0	0	100	100	100	100	100
MERCHANT	0	0	0	0	0	0	100	100	100	100	100
NEW BAR 1	0	0	0	0	0	0	100	100	100	100	100
NEW BAR 2	0	0	0	0	0	0	100	100	100	100	100
BLACK PLATE	0	0	0	0	0	0	100	100	100	100	100
GALVANIZED	0	0	0	0	0	0	100	100	100	100	100
BILLET	0	0	0	0	0	0	100	100	100	100	100
PIG IRON	0	0	0	0	0	0	0	0	0	0	0
EGEAF	0	0	0	0	0	0	860	2,038	2,038	2,038	2,038
JPC (RS/TON)											
HSM BILLET	0	0	0	0	0	0	5	5	5	5	5
HSM JOISTS	0	0	0	0	0	0	5	5	5	5	5
HSM ANGLES	0	0	0	0	0	0	5	5	5	5	5
MERCHANT	0	0	0	0	0	0	5	5	5	5	5
NEW BAR 1	0	0	0	0	0	0	5	5	5	5	5
NEW BAR 2	0	0	0	0	0	0	5	5	5	5	5
BLACK PLATE	0	0	0	0	0	0	5	5	5	5	5
GALVANIZED	0	0	0	0	0	0	5	5	5	5	5
BILLET	0	0	0	0	0	0	5	5	5	5	5
PIG IRON	0	0	0	0	0	0	0	0	0	0	0
JPC	0	0	0	0	0	0	43	102	102	102	102
MANUFACTURING COST (RS/TON)											
HSM BILLET	0	0	0	0	0	0	1690	1587	1587	1587	1587
HSM JOISTS	0	0	0	0	0	0	1690	1587	1587	1587	1587
HSM ANGLES	0	0	0	0	0	0	1690	1587	1587	1587	1587
MERCHANT	0	0	0	0	0	0	1841	1555	1555	1555	1555
NEW BAR 1	0	0	0	0	0	0	1648	1488	1488	1488	1488
NEW BAR 2	0	0	0	0	0	0	1690	1494	1494	1494	1494
BLACK PLATE	0	0	0	0	0	0	1941	0	0	0	0
GALVANIZED	0	0	0	0	0	0	4193	0	0	0	0
BILLET	0	0	0	0	0	0	1705	1615	1615	1615	1615
PIG IRON	0	0	0	0	0	0	849	775	775	775	775
LUMP COKE	0	0	0	0	0	0	1028	0	0	0	0
MANUFACTUR.COST	0	0	0	0	0	0	16,482	31,295	31,295	31,295	31,295

CASE BASE (1LAKHS=100,000RUPEES)

DETAILS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
PRICE (RS/TON)											
HSM BILLET	3940	3940	3940	3940	3940	3940	3940	3940	3940	3940	3940
HSM JOISTS	6360	6360	6360	6360	6360	6360	6360	6360	6360	6360	6360
HSM ANGLES	5990	5990	5990	5990	5990	5990	5990	5990	5990	5990	5990
MERCHANT	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600
NEW BAR 1	4680	4680	4680	4680	4680	4680	4680	4680	4680	4680	4680
NEW BAR 2	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600
BLACK PLATE	7335	7335	7335	7335	7335	7335	7335	7335	7335	7335	7335
GALVANIZED	11190	11190	11190	11190	11190	11190	11190	11190	11190	11190	11190
BILLET	3940	3940	3940	3940	3940	3940	3940	3940	3940	3940	3940
PIG IRON	2620	2620	2620	2620	2620	2620	2620	2620	2620	2620	2620
LUMP COKE	1409	1409	1409	1409	1409	1409	1409	1409	1409	1409	1409
VOLUME (1000TON)											
HSM BILLET	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
HSM JOISTS	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
HSM ANGLES	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
MERCHANT	250.00	250.00	248.00	248.00	250.00	250.00	250.00	250.00	250.00	250.00	248.00
NEW BAR 1	600.00	600.00	372.00	372.00	600.00	600.00	600.00	600.00	600.00	600.00	372.00
NEW BAR 2	700.00	700.00	700.00	700.00	700.00	700.00	700.00	700.00	700.00	700.00	700.00
BLACK PLATE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALVANIZED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BILLET	238.50	238.50	148.00	148.00	238.50	238.50	238.50	238.50	238.50	238.50	148.00
PIG IRON	26.00	26.00	11.00	11.00	26.00	26.00	26.00	26.00	26.00	26.00	11.00
LUMP COKE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SALES											
HSM BILLET	3,940	3,940	3,940	3,940	3,940	3,940	3,940	3,940	3,940	3,940	3,940
HSM JOISTS	4,770	4,770	4,770	4,770	4,770	4,770	4,770	4,770	4,770	4,770	4,770
HSM ANGLES	4,492	4,492	4,492	4,492	4,492	4,492	4,492	4,492	4,492	4,492	4,492
MERCHANT	11,500	11,500	11,408	11,408	11,500	11,500	11,500	11,500	11,500	11,500	11,408
NEW BAR 1	28,080	28,080	17,410	17,410	28,080	28,080	28,080	28,080	28,080	28,080	17,410
NEW BAR 2	32,200	32,200	32,200	32,200	32,200	32,200	32,200	32,200	32,200	32,200	32,200
BLACK PLATE	0	0	0	0	0	0	0	0	0	0	0
GALVANIZED	0	0	0	0	0	0	0	0	0	0	0
BILLET	9,397	9,397	5,831	5,831	9,397	9,397	9,397	9,397	9,397	9,397	5,831
PIG IRON	681	681	288	288	681	681	681	681	681	681	288
LUMP COKE	0	0	0	0	0	0	0	0	0	0	0
REVENUE	95,061	95,061	80,339	80,339	95,061	95,061	95,061	95,061	95,061	95,061	80,339

CASE BASE (1LAKHS=100,000RUPEES)

DETAILS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
EXCISE DUTY(RS/TON)											
HSM BILLET	365	365	365	365	365	365	365	365	365	365	365
HSM JOISTS	365	365	365	365	365	365	365	365	365	365	365
HSM ANGLES	365	365	365	365	365	365	365	365	365	365	365
MERCHANT	365	365	365	365	365	365	365	365	365	365	365
NEW BAR 1	365	365	365	365	365	365	365	365	365	365	365
NEW BAR 2	365	365	365	365	365	365	365	365	365	365	365
BLACK PLATE	500	500	500	500	500	500	500	500	500	500	500
GALVANIZED	935	935	935	935	935	935	935	935	935	935	935
BILLET	365	365	365	365	365	365	365	365	365	365	365
PIG IRON	80	80	80	80	80	80	80	80	80	80	80
LUMP COKE	54	54	54	54	54	54	54	54	54	54	54
EXCISE DUTY	7,461	7,461	6,279	6,279	7,461	7,461	7,461	7,461	7,461	7,461	6,279
SDF (RS/TON)											
HSM BILLET	450	450	450	450	450	450	450	450	450	450	450
HSM JOISTS	500	500	500	500	500	500	500	500	500	500	500
HSM ANGLES	500	500	500	500	500	500	500	500	500	500	500
MERCHANT	400	400	400	400	400	400	400	400	400	400	400
NEW BAR 1	400	400	400	400	400	400	400	400	400	400	400
NEW BAR 2	400	400	400	400	400	400	400	400	400	400	400
BLACK PLATE	500	500	500	500	500	500	500	500	500	500	500
GALVANIZED	350	350	350	350	350	350	350	350	350	350	350
BILLET	450	450	450	460	450	450	450	450	450	450	450
PIG IRON	0	0	0	0	0	0	0	0	0	0	0
SDF	8,473	8,473	7,146	7,146	8,473	8,473	8,473	8,473	8,473	8,473	7,146

CASE BASE (1LAKHS=100,000RUPEES)

DETAILS	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
EGEAF (RS/TON)											
HSM BILLET	100	100	100	100	100	100	100	100	100	100	100
HSM JOISTS	100	100	100	100	100	100	100	100	100	100	100
HSM ANGLES	100	100	100	100	100	100	100	100	100	100	100
MERCHANT	100	100	100	100	100	100	100	100	100	100	100
NEW BAR 1	100	100	100	100	100	100	100	100	100	100	100
NEW BAR 2	100	100	100	100	100	100	100	100	100	100	100
BLACK PLATE	100	100	100	100	100	100	100	100	100	100	100
GALVANIZED	100	100	100	100	100	100	100	100	100	100	100
BILLET	100	100	100	100	100	100	100	100	100	100	100
PIG IRON	0	0	0	0	0	0	0	0	0	0	0
EGEAF	2,038	2,038	1,718	1,718	2,038	2,038	2,038	2,038	2,038	2,038	1,718
JPC (RS/TON)											
HSM BILLET	5	5	5	5	5	5	5	5	5	5	5
HSM JOISTS	5	5	5	5	5	5	5	5	5	5	5
HSM ANGLES	5	5	5	5	5	5	5	5	5	5	5
MERCHANT	5	5	5	5	5	5	5	5	5	5	5
NEW BAR 1	5	5	5	5	5	5	5	5	5	5	5
NEW BAR 2	5	5	5	5	5	5	5	5	5	5	5
BLACK PLATE	5	5	5	5	5	5	5	5	5	5	5
GALVANIZED	5	5	5	5	5	5	5	5	5	5	5
BILLET	5	5	5	5	5	5	5	5	5	5	5
PIG IRON	0	0	0	0	0	0	0	0	0	0	0
JPC	102	102	86	86	102	102	102	102	102	102	86
MANUFACTURING COST (RS/TON)											
HSM BILLET	1587	1587	1587	1587	1587	1587	1587	1587	1587	1587	1587
HSM JOISTS	1587	1587	1587	1587	1587	1587	1587	1587	1587	1587	1587
HSM ANGLES	1587	1587	1587	1587	1587	1587	1587	1587	1587	1587	1587
MERCHANT	1555	1555	1555	1555	1555	1555	1555	1555	1555	1555	1555
NEW BAR 1	1488	1488	1488	1488	1488	1488	1488	1488	1488	1488	1488
NEW BAR 2	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494
BLACK PLATE	0	0	0	0	0	0	0	0	0	0	0
GALVANIZED	0	0	0	0	0	0	0	0	0	0	0
BILLET	1615	1615	1615	1615	1615	1615	1615	1615	1615	1615	1615
PIG IRON	775	775	775	775	775	775	775	775	775	775	775
LUMP COKE	0	0	0	0	0	0	0	0	0	0	0
MANUFACTUR-COST	31,295	31,295	26,294	26,294	31,295	31,295	31,295	31,295	31,295	31,295	26,294

CASE BASE (1LAKHS=100,000RUPEES)

DETAILS	2009	2010	2011	2012	TOTAL
PRICE (RS/TON)					
HSM BILLET	3940	3940	3940	3940	
HSM JOISTS	6360	6360	6360	6360	
HSM ANGLES	5990	5990	5990	5990	
MERCHANT	4600	4600	4600	4600	
NEW BAR 1	4680	4680	4680	4680	
NEW BAR 2	4600	4600	4600	4600	
BLACK PLATE	7335	7335	7335	7335	
GALVANIZED	11190	11190	11190	11190	
BILLET	3940	3940	3940	3940	
PIG IRON	2620	2620	2620	2620	
LUMP COKE	1409	1409	1409	1409	
VOLUME (1000TON)					
HSM BILLET	100.00	100.00	100.00	100.00	2000.00
HSM JOISTS	75.00	75.00	75.00	75.00	1500.00
HSM ANGLES	75.00	75.00	75.00	75.00	1500.00
MERCHANT	248.00	250.00	250.00	250.00	4992.00
NEW BAR 1	372.30	600.00	600.00	600.00	10742.00
NEW BAR 2	700.00	700.00	700.00	700.00	13300.00
BLACK PLATE	0.00	0.00	0.00	0.00	70.00
GALVANIZED	0.00	0.00	0.00	0.00	30.00
BILLET	148.00	238.50	238.50	238.50	4175.10
PIG IRON	11.00	26.00	26.00	26.00	473.30
LUMP COKE	0.00	0.00	0.00	0.00	41.00
SALES					
HSM BILLET	3,940	3,940	3,940	3,940	78,800
HSM JOISTS	4,770	4,770	4,770	4,770	95,400
HSM ANGLES	4,492	4,492	4,492	4,492	89,850
MERCHANT	11,408	11,500	11,500	11,500	229,632
NEW BAR 1	17,410	28,080	28,080	28,080	502,726
NEW BAR 2	32,200	32,200	32,200	32,200	611,800
BLACK PLATE	0	0	0	0	5,135
GALVANIZED	0	0	0	0	3,357
BILLET	5,831	9,397	9,397	9,397	164,499
PIG IRON	288	681	681	681	12,400
LUMP COKE	0	0	0	0	578
REVENUE	80,339	95,061	95,061	95,061	1,794,176

CASE BASE (1LAKHS=100,000RUPEES)

DETAILS	2009	2010	2011	2012	TOTAL
EXCISE DUTY(RS/TON)					
HSM BILLET	365	365	365	365	
HSM JOISTS	365	365	365	365	
HSM ANGLES	365	365	365	365	
MERCHANT	365	365	365	365	
NEW BAR 1	365	365	365	365	
NEW BAR 2	365	365	365	365	
BLACK PLATE	500	500	500	500	
GALVANIZED	935	935	935	935	
BILLET	365	365	365	365	
PIG IRON	80	80	80	80	
LUMP COKE	54	54	54	54	
EXCISE DUTY	6,279	7,461	7,461	7,461	160,494
SDF (RS/TON)					
HSM BILLET	450	450	450	450	
HSM JOISTS	500	500	500	500	
HSM ANGLES	500	500	500	500	
MERCHANT	400	400	400	400	
NEW BAR 1	400	400	400	400	
NEW BAR 2	400	400	400	400	
BLACK PLATE	500	500	500	500	
GALVANIZED	350	350	350	350	
BILLET	450	450	450	450	
PIG IRON	0	0	0	0	
SDF	7,146	8,473	8,473	8,473	159,379

CASE BASE (1LAKHS=100,000RUPEES)

DETAILS	2009	2010	2011	2012	TOTAL
EGEAF (RS/TON)					
HSM BILLET	100	100	100	100	
HSM JOISTS	100	100	100	100	
HSM ANGLES	100	100	100	100	
MERCHANT	100	100	100	100	
NEW BAR 1	100	100	100	100	
NEW BAR 2	100	100	100	100	
BLACK PLATE	100	100	100	100	
GALVANIZED	100	100	100	100	
BILLET	100	100	100	100	
PIG IRON	0	0	0	0	
EGEAF	1,718	2,038	2,038	2,038	38,309
JPC (RS/TON)					
HSM BILLET	5	5	5	5	
HSM JOISTS	5	5	5	5	
HSM ANGLES	5	5	5	5	
MERCHANT	5	5	5	5	
NEW BAR 1	5	5	5	5	
NEW BAR 2	5	5	5	5	
BLACK PLATE	5	5	5	5	
GALVANIZED	5	5	5	5	
BILLET	5	5	5	5	
PIG IRON	0	0	0	0	
JPC	86	102	102	102	1,915
MANUFACTURING COST (RS/TON)					
HSM BILLET	1587	1587	1587	1587	
HSM JOISTS	1587	1587	1587	1587	
HSM ANGLES	1587	1587	1587	1587	
MERCHANT	1555	1555	1555	1555	
NEW BAR 1	1488	1488	1488	1488	
NEW BAR 2	1494	1494	1494	1494	
BLACK PLATE	0	0	0	0	
GALVANIZED	0	0	0	0	
BILLET	1615	1615	1615	1615	
PIG IRON	775	775	775	775	
LUMP COKE	0	0	0	0	
MANUFACTUR.COST	26,294	31,295	31,295	31,295	591,086

CASE BASE (1LAKHS=100,000RUPEES)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
****** DEPRECIATION DETAILS ******											
STEP1											
BUILDING	0	0	0	0	0	0	287	287	287	287	287
MACHINERY	0	0	0	0	0	0	7,326	7,326	7,326	7,326	7,326
VEHICLES	0	0	0	0	0	0	23	23	23	23	23
PRE-OP(ENGIN.)	0	0	0	0	0	0	385	385	385	385	385
(TRAIN.)	0	0	0	0	0	0	25	25	25	25	25
(TECH.AS)	0	0	0	0	0	0	39	39	39	39	39
(PREPAR.)	0	0	0	0	0	0	19	19	19	19	19
STEP2											
BUILDING	0	0	0	0	0	0	0	198	198	198	198
MACHINERY	0	0	0	0	0	0	0	6,775	6,775	6,775	6,775
VEHICLES	0	0	0	0	0	0	0	257	257	257	257
PRE-OP(ENGIN.)	0	0	0	0	0	0	0	355	355	355	355
(TRAIN.)	0	0	0	0	0	0	0	5	5	5	5
(TECH.AS)	0	0	0	0	0	0	0	8	8	8	8
(PREPAR.)	0	0	0	0	0	0	0	18	18	18	18
OLD PLANT											
BLDG(9,10,12,13)	0	0	0	0	0	0	57	57	57	57	57
VEHICLES (11)	0	0	0	0	0	0	35	35	35	35	35
MACHINERY,OVEN	0	0	0	0	0	0	439	439	439	439	439
I.D.C.											
STEP1	0	0	0	0	0	0	585	585	585	585	585
STEP2	0	0	0	0	0	0	0	532	532	532	532
1.LAND	0	0	0	0	0	0	0	0	0	0	0
2.BUILDINGS	0	0	0	0	0	0	287	485	485	485	485
3.MACHINERY	0	0	0	0	0	0	7,326	14,101	14,101	14,101	14,101
4.VEHICLES	0	0	0	0	0	0	23	280	280	280	280
5.INVENTORIES	0	0	0	0	0	0	0	0	0	0	0
6.PRE-OPENING	0	0	0	0	0	0	468	864	864	864	864
7.I.D.C.	0	0	0	0	0	0	585	1,117	1,117	1,117	1,117
OLD PLANT	0	0	0	0	0	0	531	531	531	531	531
TOTAL DEPRECIATION	0	0	0	0	0	0	9,220	17,368	17,368	17,368	17,368

CASE BASE (1LAKHS=100,000RUPEES)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
****** DEPRECIATION DETAILS ******											
STEP1											
BUILDING	287	287	287	287	287	287	287	287	287	287	287
MACHINERY	7,326	7,326	7,326	7,326	7,326	7,326	7,326	7,325	0	0	0
VEHICLES	23	23	23	23	23	23	23	23	23	23	23
PRE-OP(ENGIN.)	385	385	385	385	385	0	0	0	0	0	0
(TRAIN.)	25	25	25	25	25	0	0	0	0	0	0
(TECH.AS)	39	39	39	39	39	0	0	0	0	0	0
(PREPAR.)	19	19	19	19	19	0	0	0	0	0	0
STEP2											
BUILDING	198	198	198	198	198	198	198	198	198	198	198
MACHINERY	6,775	6,775	6,775	6,775	6,775	6,775	6,775	6,775	6,775	0	0
VEHICLES	257	257	257	257	257	257	257	257	257	257	257
PRE-OP(ENGIN.)	355	355	355	355	355	355	0	0	0	0	0
(TRAIN.)	5	5	5	5	5	5	0	0	0	0	0
(TECH.AS)	8	8	8	8	8	8	0	0	0	0	0
(PREPAR.)	18	18	18	18	18	18	0	0	0	0	0
OLD PLANT											
BLDG(9,10,12,13)	57	57	57	57	57	57	57	57	57	57	57
VEHICLES (11)	35	35	35	35	35	35	35	35	35	35	35
MACHINERY,OVEN	439	439	439	439	439	439	439	439	0	0	0
I.D.C.											
STEP1	585	585	585	585	585	0	0	0	0	0	0
STEP2	532	532	532	532	532	532	0	0	0	0	0
1.LAND	0	0	0	0	0	0	0	0	0	0	0
2.BUILDINGS	485	485	485	485	485	485	485	485	485	485	485
3.MACHINERY	14,101	14,101	14,101	14,101	14,101	14,101	14,101	14,101	6,775	0	0
4.VEHICLES	280	280	280	280	280	280	280	280	280	280	280
5.INVENTORIES	0	0	0	0	0	0	0	0	0	0	0
6.PRE-OPENING	854	854	854	854	854	385	0	0	0	0	0
7.I.D.C.	1,117	1,117	1,117	1,117	1,117	532	0	0	0	0	0
OLD PLANT	531	531	531	531	531	531	531	531	92	92	92
TOTAL DEPRECIATION	17,368	17,368	17,368	17,368	17,368	16,315	15,397	15,397	7,632	857	857

CASE BASE (1LAKHS=100,000RUPEES)

	2009	2010	2011	2012	TOTAL
****** DEPRECIATION DETAILS ******					
STEP1					
BUILDING	287	287	287	287	5,742
MACHINERY	0	0	0	0	95,241
VEHICLES	23	23	23	23	453
PRE-OP(ENGIN.)	0	0	0	0	3,846
(TRAIN.)	0	0	0	0	254
(TECH.AS)	0	0	0	0	391
(PREPAR.)	0	0	0	0	192
STEP2					
BUILDING	198	198	198	198	3,767
MACHINERY	0	0	0	0	88,072
VEHICLES	257	257	257	257	4,883
PRE-OP(ENGIN.)	0	0	0	0	3,550
(TRAIN.)	0	0	0	0	46
(TECH.AS)	0	0	0	0	80
(PREPAR.)	0	0	0	0	178
OLD PLANT					
BLDG(9,10,12,13)	57	57	57	57	1,148
VEHICLES (11)	35	35	35	35	698
MACHINERY,OVEN	0	0	0	0	5,703
I.D.C.					
STEP1	0	0	0	0	5,849
STEP2	0	0	0	0	5,325
1.LAND	0	0	0	0	0
2.BUILDINGS	485	485	485	485	9,509
3.MACHINERY	0	0	0	0	183,313
4.VEHICLES	280	280	280	280	5,336
5.INVENTORIES	0	0	0	0	0
6.PRE-OPENING	0	0	0	0	9,537
7.I.D.C.	0	0	0	0	11,174
OLD PLANT	92	92	92	92	7,549
TOTAL DEPRECIATION	857	857	857	857	225,417

87/02/13
CASE BASE (1LAKHS=100,000RUPEES)

I.R.R. (447) = 9.845 %

	CASH-FLOW	DIS CASH-FLOW
0	0.000	0.000
1	-808.000	-735.582
2	-3402.000	-2819.509
3	-17434.000	-13153.935
4	-39071.000	-26836.925
5	-79065.000	-49440.408
6	-81559.000	-46428.988
7	-13913.682	-7210.725
8	27618.310	13030.274
9	34472.239	14806.264
10	34504.719	13491.929
11	34537.199	12294.255
12	34569.679	11202.888
13	34602.159	10208.394
14	29781.160	7998.626
15	27598.230	6747.992
16	32354.270	7201.857
17	34472.239	6985.571
18	34504.719	6365.470
19	34537.199	5800.410
20	34569.679	5285.505
21	34602.159	4816.304
22	29781.160	3773.739
23	27598.230	3183.692
24	32354.270	3397.824
25	34472.239	3295.781
26	77429.478	6739.299
TOTAL	429106.658	0.000

87/02/13
CASE BASE (1LAKHS=100,000RUPEES)

I.R.R. (448) = 7.112 %

	CASH-FLOW	DIS CASH-FLOW
0	0.000	0.000
1	-808.000	-754.354
2	-3402.000	-2965.251
3	-17434.000	-14186.906
4	-39071.000	-29683.064
5	-79065.000	-56079.228
6	-81559.000	-54007.390
7	-13913.682	-8601.752
8	27540.833	15895.913
9	29868.367	16094.720
10	29530.466	14856.134
11	29210.062	13719.286
12	28856.989	12653.586
13	28503.917	11668.921
14	23297.364	8904.232
15	24198.367	8634.542
16	28638.815	9538.850
17	26961.707	8385.476
18	26116.709	7583.372
19	25470.874	6904.803
20	25366.480	6419.943
21	21379.618	5051.664
22	13034.373	2875.334
23	14211.703	2926.899
24	18983.795	3650.129
25	17681.000	3173.917
26	43798.278	7340.224
TOTAL	247392.034	0.000

87/02/13
CASE BASE (1LAKHS=100,000RUPEES)

I.R.R. (440) = 7.253 %

	CASH-FLOW	DIS CASH-FLOW
0	0.000	0.000
1	-268.000	-249.876
2	-2475.000	-2151.568
3	-11262.000	-9128.202
4	-26122.000	-19740.859
5	-47640.000	-33567.676
6	-37667.000	-24745.741
7	0.000	0.000
8	8572.256	4895.695
9	12448.842	6628.848
10	11150.837	5536.133
11	11569.057	5355.338
12	11954.610	5159.579
13	12340.162	4965.805
14	7872.235	2953.634
15	9511.862	3327.470
16	14685.935	4790.050
17	18635.998	5667.363
18	22125.738	6273.589
19	21721.172	5742.374
20	21858.047	5387.775
21	18112.454	4162.606
22	11335.644	2428.981
23	14211.703	2839.317
24	18983.795	3536.232
25	17681.000	3070.820
26	42377.278	6862.314
TOTAL	181714.624	0.002

(2) Sensitivity Analysis Case-1

** FINANCIAL STATEMENT OF BURNPUR WORKS (UNIT:LAKHS) PAGE 1 (87/02/13)

CASE 1 (OPERATION DOWN '93..80% ,'94..65% ,'95..84%)

*** P / L ***	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
SALES	0	0	0	0	0	0	37,527	61,789	79,851	95,061	95,061
VARIABLE COST	0	0	0	0	0	0	19,630	32,091	41,471	49,370	49,370
MANUFACTUR.COST	0	0	0	0	0	0	13,185	20,342	26,286	31,295	31,295
SELLING EXP.	0	0	0	0	0	0	6,444	11,749	15,183	18,075	18,075
EXCISE DUTY	0	0	0	0	0	0	2,765	4,850	6,268	7,461	7,461
SDF	0	0	0	0	0	0	2,957	5,508	7,118	8,473	8,473
EGEAF	0	0	0	0	0	0	688	1,325	1,712	2,038	2,038
JPC	0	0	0	0	0	0	34	66	86	102	102
FIXED COST	0	0	0	0	0	0	17,927	28,651	28,651	28,651	28,651
LABOR	0	0	0	0	0	0	3,881	3,240	3,240	3,240	3,240
DEPRECIATIONS	0	0	0	0	0	0	9,220	17,368	17,368	17,368	17,368
B.F.RELINING	0	0	0	0	0	0	203	406	406	406	406
FIXED MATERIAL	0	0	0	0	0	0	3,365	6,269	6,269	6,269	6,269
OTHER FIXED EXP.	0	0	0	0	0	0	1,259	1,368	1,368	1,368	1,368
OPERATING COST	0	0	0	0	0	0	37,557	60,742	70,122	78,021	78,021
OPERATING INCOME	0	0	0	0	0	0	-30	1,048	9,729	17,039	17,039
INTEREST INCOME	0	0	0	0	0	0	8	32	65	97	130
INTEREST PAID	16	59	267	833	2,193	4,774	7,568	8,671	7,841	6,598	5,744
SHORT TERM LOAN	0	0	0	0	0	0	392	963	686	115	0
SDF LOAN	0	0	0	0	110	1,032	2,491	3,136	3,081	2,905	2,664
(STEP1)	(0)(	0)(	0)(	0)(	110)(	828)(	1,438)(	1,438)(	1,382)(	1,272)(	1,161)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	204)(	1,053)(	1,699)(	1,698)(	1,633)(	1,503)
FOREIGN LOAN	16	59	267	833	2,083	3,741	4,685	4,572	4,075	3,577	3,080
(STEP1)	(16)(	44)(	226)(	635)(	1,521)(	2,470)(	2,704)(	2,427)(	2,150)(	1,872)(	1,595)
(STEP2)	(0)(	14)(	41)(	198)(	562)(	1,272)(	1,980)(	2,146)(	1,925)(	1,705)(	1,485)
I.D.C.	16	59	267	833	2,193	4,774	3,034	0	0	0	0
(STEP1)	(16)(	44)(	226)(	635)(	1,630)(	3,298)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	14)(	41)(	198)(	562)(	1,475)(	3,034)(	0)(	0)(	0)(	0)
INCOME BEFORE TAX	0	0	0	0	0	0	-4,556	-7,591	1,952	10,539	11,425
LOSS BROUGHT FWD.	0	0	0	0	0	0	0	-4,556	-12,147	-10,195	0
TAXABLE INCOME	0	0	0	0	0	0	-4,556	-12,147	-10,195	344	11,425
INCOME TAX	0	0	0	0	0	0	0	0	0	172	5,713
INCOME AFTER TAX	0	0	0	0	0	0	-4,556	-7,591	1,952	10,367	5,713
ACCUMULATED INCOME	0	0	0	0	0	0	-4,556	-12,147	-10,195	172	5,885

CASE 1 (OPERATION DOWN '93..80% ,'94..65% ,'95..84%)

*** B / S ***	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
DEPO(RELINING)	0	0	0	0	0	0	203	609	1,015	1,421	1,827
CASH-IN-HAND	0	0	0	0	0	0	313	515	665	792	792
EXCESS CASH	0	0	0	0	0	0	0	0	0	12,206	28,930
ACCT. RECEIVABLE	0	0	0	0	0	0	3,127	5,149	6,654	7,922	7,922
LIQUID ASSETS	0	0	0	0	0	0	3,643	6,273	8,335	22,341	39,471
FINISHED GOODS	0	0	0	0	0	0	1,564	2,575	3,327	3,961	3,961
WORK-IN-PROCESS	0	0	0	0	0	0	625	1,030	1,331	1,584	1,584
MATERIALS,SUPPLIES	0	0	0	0	0	0	1,251	2,060	2,662	3,169	3,169
SPARES&STORES	0	0	0	0	0	0	3,087	5,243	5,243	5,243	5,243
CURRENT ASSETS	0	0	0	0	0	0	10,170	17,180	20,897	36,298	53,428
1.LAND	0	2,008	4,016	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737
2.BUILDINGS	0	0	1,151	5,729	12,016	14,795	15,040	14,555	14,069	13,584	13,098
3.MACHINERY	0	0	13,033	44,509	115,552	178,149	185,635	171,534	157,433	143,332	129,231
4.VEHICLES	0	0	0	54	537	3,160	5,864	5,585	5,305	5,025	4,746
5.INVENTORIES	0	0	0	0	0	3,087	2,156	0	0	0	0
6.PRE-OPERAT. EXP.	808	2,202	3,444	4,686	5,938	7,823	8,069	7,215	6,361	5,508	4,654
7.I.D.C.	16	74	341	1,174	3,366	8,140	10,589	9,471	8,354	7,237	6,119
OLD PLANT	0	0	0	0	0	8,588	8,057	7,526	6,995	6,464	5,933
FIXED ASSETS	824	4,284	21,985	61,889	143,146	229,479	241,147	221,623	204,255	186,886	169,518
ASSETS TOTAL	824	4,284	21,985	61,889	143,146	229,479	251,317	238,803	225,152	223,185	222,947
ACCOUNT PAYABLE	0	0	0	0	0	0	1,564	2,575	3,327	3,961	3,961
RESERVE FOR TAX	0	0	0	0	0	0	0	0	0	172	5,713
SHORT LOAN	0	0	0	0	0	0	5,605	8,147	1,649	0	0
CURRENT LIABILITIES	0	0	0	0	0	0	7,169	10,721	4,976	4,133	9,674
RESERVE(RELINING)	0	0	0	0	0	0	203	609	1,015	1,421	1,827
SDF LOAN	0	0	0	0	2,740	23,069	39,206	39,206	37,824	34,808	31,792
(STEP1)	(0)(	0)(	0)(	0)(	2,740)(	17,972)(	17,972)(	16,590)(	15,207)(	13,825)	
(STEP2)	(0)(	0)(	0)(	0)(	0)(	5,097)(	21,234)(	21,234)(	21,234)(	19,601)(	17,967)
FOREIGN LOAN	556	1,541	7,980	21,762	52,640	80,976	83,861	74,979	66,098	57,217	48,335
(STEP1)	(556)(	1,030)(	7,030)(	15,640)(	38,674)(	49,529)(	44,576)(	39,623)(	34,670)(	29,717)(	24,764)
(STEP2)	(0)(	511)(	950)(	6,121)(	13,966)(	31,447)(	39,285)(	35,356)(	31,428)(	27,499)(	23,571)
FIXED LIABILITIES	556	1,541	7,980	21,762	55,379	104,045	123,270	114,795	104,937	93,445	81,954
LIABILITIES TOTAL	556	1,541	7,980	21,762	55,379	104,045	130,439	125,516	109,913	97,578	91,628
CAPITAL STOCK	268	2,743	14,005	40,127	87,767	125,434	125,434	125,434	125,434	125,434	125,434
RETAINED EARNING	0	0	0	0	0	0	-4,556	-12,147	-10,195	172	5,885
EQUITY	268	2,743	14,005	40,127	87,767	125,434	120,878	113,287	115,239	125,606	131,319
LIABILITY&EQUITY	824	4,284	21,985	61,889	143,146	229,479	251,317	238,803	225,152	223,185	222,947

CASE 1 (OPERATION DOWN '93--80% ,'94--65% ,'95--84%)

*** C / F ***	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
INCOME BEFORE TAX	0	0	0	0	0	0	-4,556	-7,591	1,952	10,539	11,425
DEPRECIATIONS	0	0	0	0	0	0	9,220	17,368	17,368	17,368	17,368
B.F.RELINING	0	0	0	0	0	0	203	406	406	406	406
RELEASE(RELINING)	0	0	0	0	0	0	0	0	0	0	0
CAPITAL STOCK	268	2,475	11,262	26,122	47,640	37,667	0	0	0	0	0
(STEP1)	(268)(	2,224)(	11,064)(	16,421)(	31,678)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	251)(	198)(	9,701)(	15,965)(	29,079)(	0)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	8,588)(	0)(	0)(	0)(	0)(	0)
SDF LOAN	0	0	0	0	2,740	20,329	16,137	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	2,740)(	15,232)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	5,097)(	16,137)(	0)(	0)(	0)(	0)
FOREIGN LOAN	556	986	6,439	13,782	30,878	28,336	7,837	0	0	0	0
(STEP1)	(556)(	474)(	6,000)(	8,611)(	23,034)(	10,855)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	511)(	439)(	5,171)(	7,844)(	17,482)(	7,837)(	0)(	0)(	0)(	0)
SHORT LOAN	0	0	0	0	0	0	5,605	8,147	1,649	0	0
SOURCES OF FUNDS	824	3,461	17,701	39,904	81,258	86,333	34,447	18,330	21,375	28,313	29,199
INVESTMENTS	824	3,461	17,701	39,904	81,258	86,333	23,975	0	0	0	0
(STEP1 PLANT)	(808)(	2,654)(	16,838)(	24,397)(	55,818)(	22,789)(	0)(	0)(	0)(	0)(	0)
(I.D.C.)	(16)(	44)(	226)(	635)(	1,630)(	3,298)(	0)(	0)(	0)(	0)(	0)
(STEP2 PLANT)	(0)(	748)(	596)(	14,674)(	23,247)(	50,182)(	20,941)(	0)(	0)(	0)(	0)
(I.D.C.)	(0)(	14)(	41)(	198)(	562)(	1,475)(	3,034)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	8,588)(	0)(	0)(	0)(	0)(	0)
REPAY SDF	0	0	0	0	0	0	0	0	1,382	3,016	3,016
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	1,382)(	1,382)(	1,382)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	1,633)(	1,633)
REPAY FOREIGN	0	0	0	0	0	0	4,953	8,881	8,881	8,881	8,881
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	4,953)(	4,953)(	4,953)(	4,953)(	4,953)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	3,928)(	3,928)(	3,928)(	3,928)
B.F.RELINING EXP.	0	0	0	0	0	0	0	0	0	0	0
RESERVE(RELINING)	0	0	0	0	0	0	203	406	406	406	406
REPAY SHORT	0	0	0	0	0	0	0	5,605	8,147	1,649	0
EXCESS CASH	0	0	0	0	0	0	0	0	0	12,206	16,724
TAX	0	0	0	0	0	0	0	0	0	0	172
WORKING CAPITAL	0	0	0	0	0	0	5,316	3,437	2,559	2,165	0
APPLICATIONS TOTAL	824	3,461	17,701	39,904	81,258	86,333	34,447	18,330	21,375	28,313	29,199
CASHFLOW(BEF.TAX)	-808	-3,402	-17,434	-39,071	-79,065	-81,559	-17,059	15,011	24,603	32,350	34,537
CASHFLOW(AFT.TAX)	-808	-3,402	-17,434	-39,071	-79,065	-81,559	-17,059	15,011	24,603	32,350	34,365
CASHFLOW(R.O.E.)	-268	-2,475	-11,262	-26,122	-47,640	-37,667	0	0	0	12,206	16,724

CASE 1 (OPERATION DOWN '93..80% ,'94..65% ,'95..84%)

*** P / L ***	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
SALES	95,061	95,061	80,339	80,339	95,061	95,061	95,061	95,061	95,061	95,061	80,339
VARIABLE COST	49,370	49,370	41,523	41,523	49,370	49,370	49,370	49,370	49,370	49,370	41,523
MANUFACTUR.COST	31,295	31,295	26,294	26,294	31,295	31,295	31,295	31,295	31,295	31,295	26,294
SELLING EXP.	18,075	18,075	15,229	15,229	18,075	18,075	18,075	18,075	18,075	18,075	15,229
EXCISE DUTY	7,461	7,461	6,279	6,279	7,461	7,461	7,461	7,461	7,461	7,461	6,279
SDF	8,473	8,473	7,146	7,146	8,473	8,473	8,473	8,473	8,473	8,473	7,146
EGEAF	2,038	2,038	1,718	1,718	2,038	2,038	2,038	2,038	2,038	2,038	1,718
JPC	102	102	86	86	102	102	102	102	102	102	86
FIXED COST	28,651	28,651	28,651	28,651	28,651	27,598	26,680	26,680	18,915	12,140	12,140
LABOR	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240
DEPRECIATIONS	17,368	17,368	17,368	17,368	17,368	16,315	15,397	15,397	7,632	857	857
B.F.RELINING	406	406	406	406	406	406	406	406	406	406	406
FIXED MATERIAL	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269
OTHER FIXED EXP.	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368
OPERATING COST	78,021	78,021	70,174	70,174	78,021	76,968	76,050	76,050	68,285	61,511	53,664
OPERATING INCOME	17,039	17,039	10,165	10,165	17,039	18,092	19,010	19,010	26,775	33,550	26,676
INTEREST INCOME	162	195	162	65	32	65	97	130	162	195	162
INTEREST PAID	5,005	4,267	3,528	2,789	2,051	1,381	975	734	493	251	65
SHORT TERM LOAN	0	0	0	0	0	0	0	0	0	0	0
SDF LOAN	2,423	2,181	1,940	1,699	1,458	1,216	975	734	493	251	65
(STEP1)	(1,051)	(940)	(829)	(719)	(608)	(498)	(387)	(276)	(166)	(55)	(0)
(STEP2)	(1,372)	(1,241)	(1,111)	(980)	(849)	(719)	(588)	(457)	(327)	(196)	(65)
FOREIGN LOAN	2,582	2,085	1,588	1,090	593	165	0	0	0	0	0
(STEP1)	(1,317)	(1,040)	(763)	(485)	(208)	(0)	(0)	(0)	(0)	(0)	(0)
(STEP2)	(1,265)	(1,045)	(825)	(605)	(385)	(165)	(0)	(0)	(0)	(0)	(0)
I.D.C.	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
(STEP2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
INCOME BEFORE TAX	12,196	12,968	6,800	7,441	15,021	16,776	18,133	18,406	26,445	33,494	26,773
LOSS BROUGHT FWD.	0	0	0	0	0	0	0	0	0	0	0
TAXABLE INCOME	12,196	12,968	6,800	7,441	15,021	16,776	18,133	18,406	26,445	33,494	26,773
INCOME TAX	6,098	6,484	3,400	3,720	7,511	8,388	9,066	9,203	13,223	16,747	13,387
INCOME AFTER TAX	6,098	6,484	3,400	3,720	7,511	8,388	9,066	9,203	13,223	16,747	13,387
ACCUMULATED INCOME	11,983	18,467	21,867	25,587	33,098	41,486	50,552	59,755	72,978	89,725	103,111

CASE 1 (OPERATION DOWN '93..80% ,'94..65% ,'95..84%)

*** B / S ***	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
DEPO(RELINING)	2,233	2,639	1,421	203	609	1,015	1,421	1,827	2,233	2,639	1,421
CASH-IN-HAND	792	792	669	669	792	792	792	792	792	792	669
EXCESS CASH	40,885	53,225	61,097	70,609	85,295	103,931	126,067	147,778	159,636	187,749	199,084
ACCT. RECEIVABLE	7,922	7,922	6,695	6,695	7,922	7,922	7,922	7,922	7,922	7,922	6,695
LIQUID ASSETS	51,832	64,578	69,883	78,177	94,618	113,660	136,192	158,319	180,583	199,101	207,870
FINISHED GOODS	3,961	3,961	3,347	3,347	3,961	3,961	3,961	3,961	3,961	3,961	3,347
WORK-IN-PROCESS	1,584	1,584	1,339	1,339	1,584	1,584	1,584	1,584	1,584	1,584	1,339
MATERIALS,SUPPLIES	3,169	3,169	2,678	2,678	3,169	3,169	3,169	3,169	3,169	3,169	2,678
SPARES&STORES	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243
CURRENT ASSETS	65,789	78,535	82,490	90,784	108,575	127,617	150,149	172,276	194,540	213,058	220,477
1.LAND	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737
2.BUILDINGS	12,613	12,129	11,642	11,157	10,672	10,186	9,701	9,216	8,730	8,245	7,760
3.MACHINERY	115,130	101,029	86,928	72,827	58,726	44,625	30,524	16,423	9,648	9,648	9,648
4.VEHICLES	4,466	4,187	3,907	3,627	3,348	3,068	2,788	2,509	2,229	1,949	1,670
5.INVENTORIES	0	0	0	0	0	0	0	0	0	0	0
6.PRE-OPERAT. EXP.	3,800	2,947	2,093	1,239	385	0	0	0	0	0	0
7.I.D.C.	5,002	3,885	2,767	1,660	532	0	0	0	0	0	0
OLD PLANT	5,402	4,871	4,340	3,809	3,278	2,747	2,216	1,685	1,593	1,501	1,408
FIXED ASSETS	152,150	134,782	117,414	100,046	82,678	66,363	50,966	35,570	27,938	27,080	26,223
ASSETS TOTAL	217,939	213,317	199,905	190,830	191,253	193,980	201,115	207,845	222,477	240,139	246,700
ACCOUNT PAYABLE	3,961	3,961	3,347	3,347	3,961	3,961	3,961	3,961	3,961	3,961	3,347
RESERVE FOR TAX	6,098	6,484	3,400	3,720	7,511	8,368	9,066	9,203	13,223	16,747	13,387
SHORT LOAN	0	0	0	0	0	0	0	0	0	0	0
CURRENT LIABILITIES	10,059	10,445	6,747	7,068	11,471	12,349	13,027	13,164	17,183	20,708	16,734
RESERVE(RELINING)	2,233	2,639	1,421	203	609	1,015	1,421	1,827	2,233	2,639	1,421
SDF LOAN	29,776	25,760	22,744	19,729	16,713	13,697	10,681	7,665	4,649	1,633	0
(STEP1)	(12,442)(	11,060)(	9,677)(	8,295)(	6,912)(	5,530)(	4,147)(	2,765)(	1,382)(	0)(	0)
(STEP2)	(16,334)(	14,701)(	13,067)(	11,434)(	9,800)(	8,167)(	6,534)(	4,900)(	3,267)(	1,633)(	0)
FOREIGN LOAN	39,454	30,573	21,691	12,810	3,928	0	0	0	0	0	0
(STEP1)	(19,812)(	14,859)(	9,906)(	4,953)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(19,642)(	19,714)(	11,785)(	7,857)(	3,928)(	0)(	0)(	0)(	0)(	0)(	0)
FIXED LIABILITIES	70,463	58,972	45,857	32,741	21,250	14,712	12,102	9,492	6,882	4,272	1,421
LIABILITIES TOTAL	80,522	69,416	52,604	39,809	32,722	27,061	25,129	22,656	24,066	24,980	18,155
CAPITAL STOCK	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434
RETAINED EARNING	11,983	18,467	21,867	25,567	33,096	41,486	50,552	59,755	72,978	89,725	103,111
EQUITY	137,417	143,901	147,301	151,021	158,532	166,920	175,986	185,189	198,412	215,159	228,545
LIABILITY&EQUITY	217,939	213,317	199,905	190,830	191,253	193,980	201,115	207,845	222,477	240,139	246,700

CASE 1 (OPERATION DOWN '93..80% ,'94..65% ,'95..84%)

*** C / F ***	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
INCOME BEFORE TAX	12,196	12,968	6,800	7,441	15,021	16,776	18,133	18,406	26,445	33,494	26,772
DEPRECIATIONS	17,368	17,368	17,368	17,368	17,368	16,315	15,397	15,397	7,632	857	857
B.F.RELINING	406	406	406	406	406	406	406	406	406	406	406
RELEASE(RELINING)	0	0	1,624	1,624	0	0	0	0	0	0	1,624
CAPITAL STOCK	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
SDF LOAN	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
FOREIGN LOAN	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
SHORT LOAN	0	0	0	0	0	0	0	0	0	0	0
SOURCES OF FUNDS	29,971	30,742	26,198	26,839	32,795	33,497	33,936	34,209	34,483	34,757	29,660
INVESTMENTS	0	0	0	0	0	0	0	0	0	0	0
(STEP1 PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(T.D.C.)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2 PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(T.D.C.)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
REPAY SDF	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	1,633
(STEP1)	(1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	0)
(STEP2)	(1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)
REPAY FOREIGN	9,981	8,881	8,881	8,881	8,881	3,928	0	0	0	0	0
(STEP1)	(4,953)(	4,953)(	4,953)(	4,953)(	4,953)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(3,928)(	3,928)(	3,928)(	3,928)(	3,928)(	3,928)(	0)(	0)(	0)(	0)(	0)
B.F.RELINING EXP.	0	0	1,624	1,624	0	0	0	0	0	0	1,624
RESERVE(RELINING)	406	406	406	406	406	406	406	406	406	406	406
REPAY SHORT	0	0	0	0	0	0	0	0	0	0	0
EXCESS CASH	11,955	12,340	7,872	9,512	14,686	18,636	22,126	21,721	21,858	18,112	11,336
TAX	5,713	6,098	6,484	3,400	3,720	7,511	8,388	9,066	9,203	13,223	16,747
WORKING CAPITAL	0	0	-2,085	0	2,085	0	0	0	0	0	-2,085
APPLICATIONS TOTAL	29,971	30,742	26,198	26,839	32,795	33,497	33,936	34,209	34,483	34,757	29,660
CASHFLOW(BEF.TAX)	34,570	34,602	29,781	27,598	32,354	34,472	34,505	34,537	34,570	34,602	29,781
CASHFLOW(AFT.TAX)	28,857	28,504	23,297	24,198	28,634	26,962	26,117	25,471	25,366	21,380	13,034
CASHFLOW(R.O.E.)	11,955	12,340	7,872	9,512	14,686	18,636	22,126	21,721	21,858	18,112	11,336

CASE 1 (OPERATION DOWN '93..80% ,'94..65% ,'95..84%)

*** P / L ***	2009	2010	2011	2012	TOTAL
SALES	80,339	95,061	95,061	95,061	1,736,313
VARIABLE COST	41,523	49,370	49,370	49,370	901,097
MANUFACTUR.COST	26,294	31,295	31,295	31,295	571,829
SELLING EXP.	15,229	18,075	18,075	18,075	329,269
EXCISE DUTY	6,279	7,461	7,461	7,461	135,998
SDF	7,146	8,473	8,473	8,473	154,319
EGEAF	1,718	2,038	2,038	2,038	37,098
JPC	86	102	102	102	1,855
FIXED COST	12,140	12,140	12,140	12,140	448,503
LABOR	3,240	3,240	3,240	3,240	65,437
DEPRECIATIONS	857	857	857	857	225,417
B.F.RELINING	406	406	406	406	7,917
FIXED MATERIAL	6,269	6,269	6,269	6,269	122,485
OTHER FIXED EXP.	1,368	1,368	1,368	1,368	27,247
OPERATING COST	53,664	61,511	61,511	61,511	1,349,600
OPERATING INCOME	26,676	33,550	33,550	33,550	386,714
INTEREST INCOME	65	32	65	97	2,022
INTEREST PAID	0	0	0	0	66,101
SHORT TERM LOAN	0	0	0	0	2,156
SDF LOAN	0	0	0	0	28,855
(STEP1)	(0)(	0)(	0)(	0)(	13,159)
(STEP2)	(0)(	0)(	0)(	0)(	15,696)
FOREIGN LOAN	0	0	0	0	35,090
(STEP1)	(0)(	0)(	0)(	0)(	19,472)
(STEP2)	(0)(	0)(	0)(	0)(	15,617)
I.D.C.	0	0	0	0	11,174
(STEP1)	(0)(	0)(	0)(	0)(	5,849)
(STEP2)	(0)(	0)(	0)(	0)(	5,325)
INCOME BEFORE TAX	26,741	33,582	33,615	33,647	333,808
LOSS BROUGHT FWD.	0	0	0	0	-26,898
TAXABLE INCOME	26,741	33,582	33,615	33,647	306,910
INCOME TAX	13,370	16,791	16,807	16,824	166,904
INCOME AFTER TAX	13,370	16,791	16,807	16,824	166,904
ACCUMULATED INCOME	116,482	133,273	150,080	166,904	

CASE 1 (OPERATION DOWN '93..80% ,'94..65% ,'95..84%)

*** B / S ***	2009	2010	2011	2012	TOTAL
DEPO(RELINING)	203	609	1,015	1,421	
CASH-IN-HAND	669	792	792	792	
EXCESS CASH	213,296	232,280	249,961	267,658	
ACCT. RECEIVABLE	6,695	7,922	7,922	7,922	
LIQUID ASSETS	220,863	241,603	259,690	277,793	
FINISHED GOODS	3,347	3,961	3,961	3,961	
WORK-IN-PROCESS	1,339	1,584	1,584	1,584	
MATERIALS,SUPPLIES	2,678	3,169	3,169	3,169	
SPARES&STORES	5,243	5,243	5,243	5,243	
CURRENT ASSETS	233,471	255,559	273,646	291,750	
1.LAND	5,737	5,737	5,737	5,737	
2.BUILDINGS	7,274	6,789	6,304	5,818	
3.MACHINERY	9,648	9,648	9,648	9,648	
4.VEHICLES	1,390	1,111	831	551	
5.INVENTORIES	0	0	0	0	
6.PRE-OPERAT. EXP.	0	0	0	0	
7.I.D.C.	0	0	0	0	
OLD PLANT	1,916	1,224	1,132	1,039	
FIXED ASSETS	25,366	24,508	23,651	22,794	
ASSETS TOTAL	258,836	280,068	297,298	314,544	
ACCOUNT PAYABLE	3,347	3,961	3,961	3,961	
RESERVE FOR TAX	13,370	16,791	16,807	16,824	
SHORT LOAN	0	0	0	0	
CURRENT LIABILITIES	16,718	20,752	20,768	20,785	
RESERVE(RELINING)	203	609	1,015	1,421	
SDF LOAN	0	0	0	0	
(STEP1)	(0)(	0)(	0)(	0)	
(STEP2)	(0)(	0)(	0)(	0)	
FOREIGN LOAN	0	0	0	0	
(STEP1)	(0)(	0)(	0)(	0)	
(STEP2)	(0)(	0)(	0)(	0)	
FIXED LIABILITIES	203	609	1,015	1,421	
LIABILITIES TOTAL	16,921	21,361	21,783	22,206	
CAPITAL STOCK	125,434	125,434	125,434	125,434	
RETAINED EARNING	116,482	133,273	150,080	166,904	
EQUITY	241,916	258,707	275,514	292,338	
LIABILITY&EQUITY	258,836	280,068	297,298	314,544	

CASE 1 (OPERATION DOWN '93..80% ,'94..65% ,'95..84%)

	2009	2010	2011	2012	TOTAL
*** C / F ***					
INCOME BEFORE TAX	26,741	33,582	33,615	33,647	333,808
DEPRECIATIONS	857	857	857	857	225,417
B.F.RELINING	406	406	406	406	7,917
RELEASE(RELINING)	1,624	0	0	0	6,496
CAPITAL STOCK	0	0	0	0	125,434
(STEP1)	(0)(	0)(	0)(	0)(	61,652)
(STEP2)	(0)(	0)(	0)(	0)(	55,194)
(OLD PLANT)	(0)(	0)(	0)(	0)(	8,588)
SDF LOAN	0	0	0	0	39,206
(STEP1)	(0)(	0)(	0)(	0)(	17,972)
(STEP2)	(0)(	0)(	0)(	0)(	21,234)
FOREIGN LOAN	0	0	0	0	88,814
(STEP1)	(0)(	0)(	0)(	0)(	49,529)
(STEP2)	(0)(	0)(	0)(	0)(	39,285)
SHORT LOAN	0	0	0	0	15,401
SOURCES OF FUNDS	29,628	34,846	34,878	34,911	842,492
INVESTMENTS	0	0	0	0	253,454
(STEP1 PLANT)	(0)(	0)(	0)(	0)(	123,304)
(I.D.C.)	(0)(	0)(	0)(	0)(	5,849)
(STEP2 PLANT)	(0)(	0)(	0)(	0)(	110,388)
(I.D.C.)	(0)(	0)(	0)(	0)(	5,325)
(OLD PLANT)	(0)(	0)(	0)(	0)(	8,588)
REPAY SDF	0	0	0	0	39,206
(STEP1)	(0)(	0)(	0)(	0)(	17,972)
(STEP2)	(0)(	0)(	0)(	0)(	21,234)
REPAY FOREIGN	0	0	0	0	88,814
(STEP1)	(0)(	0)(	0)(	0)(	49,529)
(STEP2)	(0)(	0)(	0)(	0)(	39,285)
B.F.RELINING EXP.	1,624	0	0	0	6,496
RESERVE(RELINING)	406	406	406	406	7,917
REPAY SHORT	0	0	0	0	15,401
EXCESS CASH	14,212	18,984	17,681	17,697	267,658
TAX	13,387	13,370	16,791	16,807	150,080
WORKING CAPITAL	0	2,085	0	0	13,467
APPLICATIONS TOTAL	29,628	34,846	34,878	34,911	842,492
CASHFLOW(BEF.TAX)	27,598	32,354	34,472	77,429	401,330
CASHFLOW(AFT.TAX)	14,212	18,984	17,681	43,798	234,426
CASHFLOW(R.O.E.)	14,212	18,984	17,681	42,377	166,904

87/02/13
CASE 1 (OPERATION DOWN '93..80% ,'94..66% ,'95..84%)

I.R.R. (447) = 8.895 %

	CASH-FLOW	DIS CASH-FLOW
0	0.000	0.000
1	-808.000	-742.002
2	-3402.000	-2868.943
3	-17434.000	-13501.393
4	-39071.000	-27786.247
5	-79065.000	-51636.105
6	-81559.000	-48914.198
7	-17058.974	-9395.281
8	15011.015	7592.080
9	24603.069	11427.043
10	32350.012	13797.896
11	34537.199	13527.557
12	34569.679	12434.303
13	34602.159	11429.392
14	29781.160	9033.486
15	27598.230	7687.566
16	32354.270	8276.240
17	34472.239	8097.758
18	34504.719	7443.336
19	34537.199	6841.795
20	34569.679	6288.863
21	34602.159	5780.612
22	29781.160	4568.842
23	27598.230	3888.119
24	32354.270	4185.851
25	34472.239	4095.581
26	77429.478	8447.850
TOTAL	401330.195	0.000

87/02/13
CASE 1 (OPERATION DOWN '93..80% ,'94..65% ,'95..84%)

I.R.R. (449) = 6.572 %

	CASH-FLOW	DIS CASH-FLOW
0	0.000	0.000
1	-808.000	-758.176
2	-3402.000	-2995.379
3	-17434.000	-14403.674
4	-39071.000	-30289.319
5	-79065.000	-57514.586
6	-81559.000	-55670.402
7	-17058.974	-10926.073
8	15011.015	9021.526
9	24603.069	13874.520
10	32350.012	17118.350
11	34365.106	17063.333
12	28856.989	13444.850
13	28503.917	12461.440
14	23297.364	9557.168
15	24198.367	9314.665
16	28633.815	10342.347
17	26961.707	9137.692
18	26116.709	8305.692
19	25470.874	7600.812
20	25366.480	7102.890
21	21379.618	5617.377
22	13034.373	3213.531
23	14211.703	3287.738
24	18983.795	4120.908
25	17681.000	3601.434
26	43798.278	8371.136
TOTAL	234426.213	0.000

87/02/13
CASE 1 (OPERATION DOWN '93..80% ,'94..65% ,'95..84%)

I.R.R. (440) = 6.407 %

	CASH-FLOW	DIS CASH-FLOW
0	0.000	0.000
1	-268.000	-251.862
2	-2475.000	-2185.903
3	-11262.000	-9347.578
4	-26122.000	-20375.950
5	-47640.000	-34922.960
6	-37667.000	-25949.452
7	0.000	0.000
8	0.000	0.000
9	0.000	0.000
10	12206.243	6559.347
11	16724.102	8445.965
12	11954.610	5673.744
13	12340.162	5504.058
14	7872.235	3299.803
15	9511.862	3746.998
16	14685.935	5436.850
17	18635.998	6483.750
18	22125.738	7234.345
19	21721.172	6674.405
20	21858.047	6312.022
21	18112.454	4915.439
22	11335.644	2891.073
23	14211.703	3406.331
24	18983.795	4276.137
25	17681.000	3742.857
26	42377.278	8430.579
TOTAL	166903.977	0.000

(3) Sensitivity Analysis Case-4-1

** FINANCIAL STATEMENT OF BURNPUR WORKS (UNIT:LAKHS) PAGE 1 (87/02/13)

CASE 4-1 (MANUFACTUR.COST 10% UP)

*** P / L ***	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
SALES	0	0	0	0	0	0	46,909	95,061	95,061	95,061	95,061
VARIABLE COST	0	0	0	0	0	0	26,185	52,500	52,500	52,500	52,500
MANUFACTUR.COST	0	0	0	0	0	0	18,130	34,425	34,425	34,425	34,425
SELLING EXP.	0	0	0	0	0	0	8,055	18,075	18,075	18,075	18,075
EXCISE DUTY	0	0	0	0	0	0	3,457	7,461	7,461	7,461	7,461
SDF	0	0	0	0	0	0	3,696	8,473	8,473	8,473	8,473
EGEAF	0	0	0	0	0	0	860	2,038	2,038	2,038	2,038
JPC	0	0	0	0	0	0	43	102	102	102	102
FIXED COST	0	0	0	0	0	0	17,927	28,651	28,651	28,651	28,651
LABOR	0	0	0	0	0	0	3,881	3,240	3,240	3,240	3,240
DEPRECIATIONS	0	0	0	0	0	0	9,220	17,368	17,368	17,368	17,368
B.F.RELINING	0	0	0	0	0	0	203	406	406	406	406
FIXED MATERIAL	0	0	0	0	0	0	3,365	6,269	6,269	6,269	6,269
OTHER FIXED EXP.	0	0	0	0	0	0	1,259	1,368	1,368	1,368	1,368
OPERATING COST	0	0	0	0	0	0	44,113	81,151	81,151	81,151	81,151
OPERATING INCOME	0	0	0	0	0	0	2,796	13,910	13,910	13,910	13,910
INTEREST INCOME	0	0	0	0	0	0	8	32	65	97	130
INTEREST PAID	16	59	267	833	2,193	4,774	7,455	7,988	7,156	6,482	5,744
SHORT TERM LOAN	0	0	0	0	0	0	280	280	0	0	0
SDF LOAN	0	0	0	0	110	1,032	2,491	3,136	3,081	2,905	2,664
(STEP1)	(0)(	0)(	0)(	0)(	110)(	828)(	1,438)(	1,438)(	1,382)(	1,272)(	1,161)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	204)(	1,053)(	1,699)(	1,699)(	1,633)(	1,503)
FOREIGN LOAN	16	59	267	833	2,083	3,741	4,685	4,572	4,075	3,577	3,080
(STEP1)	(16)(	44)(	226)(	635)(	1,521)(	2,470)(	2,704)(	2,427)(	2,150)(	1,872)(	1,595)
(STEP2)	(0)(	14)(	41)(	198)(	562)(	1,272)(	1,980)(	2,145)(	1,925)(	1,705)(	1,485)
I.D.C.	16	59	267	833	2,193	4,774	3,034	0	0	0	0
(STEP1)	(16)(	44)(	226)(	635)(	1,630)(	3,298)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	14)(	41)(	198)(	562)(	1,475)(	3,034)(	0)(	0)(	0)(	0)
INCOME BEFORE TAX	0	0	0	0	0	0	-1,617	5,954	6,819	7,525	8,296
LOSS BROUGHT FWD.	0	0	0	0	0	0	0	-1,617	0	0	0
TAXABLE INCOME	0	0	0	0	0	0	-1,617	4,337	6,819	7,525	8,296
INCOME TAX	0	0	0	0	0	0	0	2,168	3,409	3,762	4,148
INCOME AFTER TAX	0	0	0	0	0	0	-1,617	3,786	3,409	3,762	4,148
ACCUMULATED INCOME	0	0	0	0	0	0	-1,617	2,168	5,578	9,340	13,488

CASE 4-1 (MANUFACTUR.COST 10% UP)

*** B / S ***	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
DEPO(RELINING)	0	0	0	0	0	0	203	609	1,015	1,421	1,827
CASH-IN-HAND	0	0	0	0	0	0	391	792	792	792	792
EXCESS CASH	0	0	0	0	0	0	0	3,624	15,379	24,965	34,969
ACCT. RECEIVABLE	0	0	0	0	0	0	3,909	7,922	7,922	7,922	7,922
LIQUID ASSETS	0	0	0	0	0	0	4,503	12,947	25,108	35,100	45,510
FINISHED GOODS	0	0	0	0	0	0	1,955	3,961	3,961	3,961	3,961
WORK-IN-PROCESS	0	0	0	0	0	0	782	1,584	1,584	1,584	1,584
MATERIALS,SUPPLIES	0	0	0	0	0	0	1,564	3,169	3,169	3,169	3,169
SPARES&STORES	0	0	0	0	0	0	3,087	5,243	5,243	5,243	5,243
CURRENT ASSETS	0	0	0	0	0	0	11,890	26,904	39,064	49,057	59,467
1.LAND	0	2,008	4,016	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737
2.BUILDINGS	0	0	1,151	5,729	12,016	14,795	15,040	14,555	14,069	13,584	13,098
3.MACHINERY	0	0	13,033	44,509	116,552	178,149	185,635	171,534	157,433	143,332	129,231
4.VEHICLES	0	0	0	54	537	3,160	5,864	5,585	5,305	5,025	4,746
5.INVENTORIES	0	0	0	0	0	3,087	2,156	0	0	0	0
6.PRE-OPERAT. EXP.	809	2,202	3,444	4,686	5,938	7,823	8,069	7,215	6,361	5,508	4,654
7.I.D.C.	16	74	341	1,174	3,366	8,140	10,589	9,471	8,354	7,237	6,119
OLD PLANT	0	0	0	0	0	8,588	8,057	7,526	6,995	6,464	5,933
FIXED ASSETS	824	4,284	21,985	61,889	143,146	229,479	241,147	221,623	204,255	186,886	169,518
ASSETS TOTAL	824	4,284	21,985	61,889	143,146	229,479	253,037	248,526	243,319	235,943	228,985
ACCOUNT PAYABLE	0	0	0	0	0	0	1,955	3,961	3,961	3,961	3,961
RESERVE FOR TAX	0	0	0	0	0	0	0	2,168	3,409	3,762	4,148
SHORT LOAN	0	0	0	0	0	0	3,995	0	0	0	0
CURRENT LIABILITIES	0	0	0	0	0	0	5,960	6,129	7,370	7,723	8,109
RESERVE(RELINING)	0	0	0	0	0	0	203	609	1,015	1,421	1,827
SDF LOAN	0	0	0	0	2,740	23,069	39,206	39,206	37,824	34,808	31,792
(STEP1)	(0)(	0)(	0)(	0)(	2,740)(	17,772)(	17,972)(	17,972)(	16,590)(	15,207)(	13,825)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	5,097)(	21,234)(	21,234)(	21,234)(	19,601)(	17,967)
FOREIGN LOAN	556	1,541	7,980	21,762	52,640	80,975	83,861	74,979	66,098	57,217	48,335
(STEP1)	(556)(	1,030)(	7,030)(	15,640)(	38,674)(	49,529)(	44,576)(	39,623)(	34,670)(	29,717)(	24,764)
(STEP2)	(0)(	511)(	950)(	5,121)(	13,966)(	31,447)(	39,285)(	35,356)(	31,428)(	27,499)(	23,571)
FIXED LIABILITIES	556	1,541	7,980	21,762	55,379	104,045	123,270	114,795	104,937	93,445	81,954
LIABILITIES TOTAL	556	1,541	7,980	21,762	55,379	104,045	129,220	120,924	112,307	101,169	90,063
CAPITAL STOCK	268	2,743	14,005	40,127	87,767	125,434	125,434	125,434	125,434	125,434	125,434
RETAINED EARNING	0	0	0	0	0	0	-1,617	2,168	5,578	9,340	13,488
EQUITY	268	2,743	14,005	40,127	87,767	125,434	123,817	127,602	131,012	134,774	138,922
LIABILITY&EQUITY	824	4,284	21,985	61,889	143,146	229,479	253,037	248,526	243,319	235,943	228,985

CASE 4-1 (MANUFACTUR.COST 10% UP)

*** C / F ***	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
INCOME BEFORE TAX	0	0	0	0	0	0	-1,617	5,954	6,819	7,525	8,296
DEPRECIATIONS	0	0	0	0	0	0	9,220	17,368	17,368	17,368	17,368
B.F.RELINING	0	0	0	0	0	0	203	406	406	406	406
RELEASE(RELINING)	0	0	0	0	0	0	0	0	0	0	0
CAPITAL STOCK	268	2,475	11,262	26,122	47,640	37,667	0	0	0	0	0
(STEP1)	(268)(	2,224)(	11,064)(	16,421)(	31,675)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	251)(	198)(	9,701)(	15,965)(	29,079)(	0)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	8,588)(	0)(	0)(	0)(	0)(	0)
SDF LOAN	0	0	0	0	2,740	20,329	16,137	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	2,740)(	15,232)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	5,097)(	16,137)(	0)(	0)(	0)(	0)
FOREIGN LOAN	556	986	6,439	13,782	30,878	28,336	7,837	0	0	0	0
(STEP1)	(556)(	474)(	6,000)(	8,611)(	23,034)(	10,855)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	511)(	439)(	5,171)(	7,844)(	17,482)(	7,837)(	0)(	0)(	0)(	0)
SHORT LOAN	0	0	0	0	0	0	3,995	0	0	0	0
SOURCES OF FUNDS	824	3,461	17,701	39,904	81,258	86,333	35,776	23,728	24,593	25,299	26,070
INVESTMENTS	824	3,461	17,701	39,904	81,258	86,333	23,975	0	0	0	0
(STEP1 PLANT)	(808)(	2,654)(	16,838)(	24,397)(	55,818)(	22,789)(	0)(	0)(	0)(	0)(	0)
(I.D.C.)	(16)(	44)(	226)(	635)(	1,630)(	3,298)(	0)(	0)(	0)(	0)(	0)
(STEP2 PLANT)	(0)(	748)(	596)(	14,674)(	23,247)(	50,182)(	20,941)(	0)(	0)(	0)(	0)
(I.D.C.)	(0)(	14)(	41)(	198)(	562)(	1,475)(	3,034)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	8,588)(	0)(	0)(	0)(	0)(	0)
REPAY SDF	0	0	0	0	0	0	0	0	1,382	3,016	3,016
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	1,382)(	1,382)(	1,382)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	1,633)(	1,633)
REPAY FOREIGN	0	0	0	0	0	0	4,953	8,881	8,881	8,881	8,881
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	4,953)(	4,953)(	4,953)(	4,953)(	4,953)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	3,928)(	3,928)(	3,928)(	3,928)
B.F.RELINING EXP.	0	0	0	0	0	0	0	0	0	0	0
RESERVE(RELINING)	0	0	0	0	0	0	203	406	406	406	406
REPAY SHORT	0	0	0	0	0	0	0	3,995	0	0	0
EXCESS CASH	0	0	0	0	0	0	0	3,624	11,755	9,586	10,004
TAX	0	0	0	0	0	0	0	0	2,165	3,409	3,762
WORKING CAPITAL	0	0	0	0	0	0	6,645	6,821	0	0	0
APPLICATIONS TOTAL	824	3,461	17,701	39,904	81,258	86,333	35,776	23,728	24,593	25,299	26,070
CASHFLOW(BFF.TAX)	-808	-3,402	-17,434	-39,071	-79,065	-81,559	-15,562	24,489	31,343	31,375	31,408
CASHFLOW(AFT.TAX)	-808	-3,402	-17,434	-39,071	-79,065	-81,559	-15,562	24,489	29,174	27,966	27,645
CASHFLOW(B.O.E.)	-268	-2,475	-11,262	-26,122	-47,640	-37,667	0	3,624	11,755	9,586	10,004

CASE 4-1 (MANUFACTUR.COST 10% UP)

*** P / L ***	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
SALES	95,061	95,061	80,339	80,339	95,061	95,061	95,061	95,061	95,061	95,061	80,339
VARIABLE COST	52,500	52,500	44,153	44,153	52,500	52,500	52,500	52,500	52,500	52,500	44,153
MANUFACTUR.COST	34,425	34,425	28,923	28,923	34,425	34,425	34,425	34,425	34,425	34,425	28,923
SELLING EXP.	18,075	18,075	15,229	15,229	18,075	18,075	18,075	18,075	18,075	18,075	15,229
EXCISE DUTY	7,461	7,461	6,279	6,279	7,461	7,461	7,461	7,461	7,461	7,461	6,279
SDF	8,473	8,473	7,146	7,146	8,473	8,473	8,473	8,473	8,473	8,473	7,146
EGEAF	2,038	2,038	1,718	1,718	2,038	2,038	2,038	2,038	2,038	2,038	1,718
JPC	102	102	86	86	102	102	102	102	102	102	86
FIXED COST	28,651	28,651	28,651	28,651	28,651	27,598	26,680	26,680	18,915	12,140	12,140
LABOR	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240	3,240
DEPRECIATIONS	17,368	17,368	17,368	17,368	17,368	16,315	15,397	15,397	7,632	857	857
B.F.RELINING	406	406	406	406	406	406	406	406	406	406	406
FIXED MATERIAL	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269	6,269
OTHER FIXED EXP.	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368
OPERATING COST	81,151	81,151	72,804	72,804	81,151	80,098	79,180	79,180	71,415	64,640	56,293
OPERATING INCOME	13,910	13,910	7,536	7,536	13,910	14,963	15,881	15,881	23,646	30,420	24,047
INTEREST INCOME	162	195	162	65	32	65	97	130	162	195	162
INTEREST PAID	5,005	4,267	3,528	2,789	2,051	1,981	975	734	493	251	65
SHORT TERM LOAN	0	0	0	0	0	0	0	0	0	0	0
SDF LOAN	2,423	2,181	1,940	1,699	1,458	1,216	975	734	493	251	65
(STEP1)	(1,051)(	940)(	829)(	719)(	608)(	498)(	387)(	276)(	166)(	55)(	0)
(STEP2)	(1,372)(	1,241)(	1,111)(	980)(	849)(	719)(	588)(	457)(	327)(	196)(	65)
FOREIGN LOAN	2,582	2,085	1,588	1,090	593	165	0	0	0	0	0
(STEP1)	(1,317)(	1,040)(	763)(	485)(	208)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(1,265)(	1,045)(	825)(	605)(	385)(	165)(	0)(	0)(	0)(	0)(	0)
I.D.C.	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
INCOME BEFORE TAX	9,067	9,838	4,170	4,812	11,892	13,646	15,003	15,277	23,316	30,364	24,144
LOSS BROUGHT FWD.	0	0	0	0	0	0	0	0	0	0	0
TAXABLE INCOME	9,067	9,838	4,170	4,812	11,892	13,646	15,003	15,277	23,316	30,364	24,144
INCOME TAX	4,533	4,919	2,085	2,406	5,946	6,823	7,502	7,638	11,658	15,182	12,072
INCOME AFTER TAX	4,533	4,919	2,085	2,406	5,946	6,823	7,502	7,638	11,658	15,182	12,072
ACCUMULATED INCOME	18,022	22,941	25,026	27,432	33,377	40,201	47,702	55,341	66,998	82,181	94,252

CASE 4-1 (MANUFACTUR.COST 10% UP)

*** B / S ***	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
DEPO(RELINING)	2,233	2,639	1,421	203	609	1,015	1,421	1,827	2,233	2,639	1,421
CASH-IN-HAND	792	792	669	669	792	792	792	792	792	792	669
EXCESS CASH	45,359	56,134	62,942	71,139	84,010	101,081	121,642	141,799	162,092	178,640	188,911
ACCT. RECEIVABLE	7,922	7,922	6,695	6,695	7,922	7,922	7,922	7,922	7,922	7,922	6,695
LIQUID ASSETS	56,306	67,487	71,727	78,707	93,333	110,810	131,777	152,340	173,039	189,993	197,696
FINISHED GOODS	3,961	3,961	3,347	3,347	3,961	3,961	3,961	3,961	3,961	3,961	3,347
WORK-IN-PROCESS	1,584	1,584	1,339	1,339	1,584	1,584	1,584	1,584	1,584	1,584	1,339
MATERIALS,SUPPLIES	3,169	3,169	2,678	2,678	3,169	3,169	3,169	3,169	3,169	3,169	2,678
SPARES&STORES	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243	5,243
CURRENT ASSETS	70,263	81,444	84,335	91,314	107,290	124,767	145,734	166,297	186,996	203,950	210,304
1.LAND	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737	5,737
2.BUILDINGS	12,613	12,128	11,642	11,157	10,672	10,186	9,701	9,216	8,730	8,245	7,760
3.MACHINERY	115,130	101,029	86,928	72,827	58,726	44,625	30,524	16,423	9,648	9,648	9,648
4.VEHICLES	4,466	4,187	3,907	3,627	3,348	3,068	2,788	2,509	2,229	1,949	1,670
5.INVENTORIES	0	0	0	0	0	0	0	0	0	0	0
6.PRE-OPERAT. EXP.	3,800	2,947	2,093	1,239	385	0	0	0	0	0	0
7.I.D.C.	5,002	3,885	2,767	1,650	532	0	0	0	0	0	0
OLD PLANT	5,402	4,871	4,340	3,809	3,278	2,747	2,216	1,685	1,593	1,501	1,408
FIXED ASSETS	152,150	134,782	117,414	100,046	82,678	66,363	50,966	35,570	27,938	27,080	26,223
ASSETS TOTAL	222,413	216,226	201,749	191,360	189,968	191,131	196,701	201,866	214,933	231,030	236,527
ACCOUNT PAYABLE	3,961	3,961	3,347	3,347	3,961	3,961	3,961	3,961	3,961	3,961	3,347
RESERVE FOR TAX	4,533	4,919	2,085	2,406	5,946	6,823	7,502	7,638	11,658	15,182	12,072
SHORT LOAN	0	0	0	0	0	0	0	0	0	0	0
CURRENT LIABILITIES	8,494	8,880	5,433	5,753	9,907	10,784	11,462	11,599	15,619	19,143	15,419
RESERVE(RELINING)	2,233	2,639	1,421	203	609	1,015	1,421	1,827	2,233	2,639	1,421
SDF LOAN	28,776	25,760	22,744	19,729	16,713	13,697	10,681	7,665	4,649	1,633	0
(STEP1)	(12,442)(	11,060)(	9,677)(	8,295)(	6,912)(	5,530)(	4,147)(	2,765)(	1,382)(	0)(	0)
(STEP2)	(16,334)(	14,701)(	13,067)(	11,434)(	9,800)(	8,167)(	6,534)(	4,900)(	3,267)(	1,633)(	0)
FOREIGN LOAN	39,454	30,573	21,691	12,810	3,928	0	0	0	0	0	0
(STEP1)	(19,812)(	14,859)(	9,906)(	4,953)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(19,642)(	15,714)(	11,785)(	7,857)(	3,928)(	0)(	0)(	0)(	0)(	0)(	0)
FIXED LIABILITIES	70,463	58,972	45,857	32,741	21,250	14,712	12,102	9,492	6,882	4,272	1,421
LIABILITIES TOTAL	78,957	67,852	51,289	38,495	31,157	25,496	23,564	21,091	22,501	23,415	16,840
CAPITAL STOCK	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434	125,434
RETAINED EARNING	18,022	22,941	25,026	27,432	33,377	40,201	47,702	55,341	66,998	82,181	94,252
EQUITY	143,456	148,375	150,460	152,866	158,811	165,635	173,136	180,775	192,432	207,615	219,686
LIABILITY&EQUITY	222,413	216,226	201,749	191,360	189,968	191,131	196,701	201,866	214,933	231,030	236,527

CASE 4-1 (MANUFACTUR.COST 10% UP)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
*** C / F ***											
INCOME BEFORE TAX	9,067	9,838	4,170	4,812	11,892	13,646	15,003	15,277	23,316	30,364	24,144
DEPRECIATIONS	17,368	17,368	17,368	17,368	17,368	16,315	15,397	15,397	7,632	857	857
B.F.RELINING	406	406	406	406	406	406	406	406	406	406	406
RELEASE(RELINING)	0	0	1,624	1,624	0	0	0	0	0	0	1,624
CAPITAL STOCK	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
SDF LOAN	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
FOREIGN LOAN	0	0	0	0	0	0	0	0	0	0	0
(STEP1)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
SHORT LOAN	0	0	0	0	0	0	0	0	0	0	0
SOURCES OF FUNDS	26,841	27,612	23,568	24,210	29,666	30,367	30,806	31,080	31,354	31,627	27,031
INVESTMENTS	0	0	0	0	0	0	0	0	0	0	0
(STEP1 PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(I.D.C.)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2 PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(I.D.C.)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
(OLD PLANT)	(0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)(	0)
REPAY SDF	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	1,633
(STEP1)	(1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	1,382)(	0)
(STEP2)	(1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)(	1,633)
REPAY FOREIGN	8,881	8,881	8,881	8,881	8,881	3,928	0	0	0	0	0
(STEP1)	(4,953)(	4,953)(	4,953)(	4,953)(	4,953)(	0)(	0)(	0)(	0)(	0)(	0)
(STEP2)	(3,928)(	3,928)(	3,928)(	3,928)(	3,928)(	3,928)(	0)(	0)(	0)(	0)(	0)
B.F.RELINING EXP.	0	0	1,624	1,624	0	0	0	0	0	0	1,624
RESERVE(RELINING)	406	406	406	406	406	406	406	406	406	406	406
REPAY SHORT	0	0	0	0	0	0	0	0	0	0	0
EXCESS CASH	10,390	10,775	6,808	8,197	12,871	17,071	20,561	20,156	20,293	16,548	10,271
TAX	4,149	4,533	4,919	2,085	2,406	5,946	6,823	7,502	7,638	11,658	15,182
WORKING CAPITAL	0	0	-2,085	0	2,085	0	0	0	0	0	-2,085
APPLICATIONS TOTAL	26,841	27,612	23,568	24,210	29,666	30,367	30,806	31,080	31,354	31,627	27,031
CASHFLOW(BEF.TAX)	31,440	31,473	27,152	24,969	29,225	31,343	31,375	31,408	31,440	31,473	27,152
CASHFLOW(AFT.TAX)	27,292	26,939	22,233	22,884	26,819	25,397	24,552	23,906	23,802	19,815	11,970
CASHFLOW(R.O.E.)	10,390	10,775	6,808	8,197	12,871	17,071	20,561	20,156	20,293	16,548	10,271

CASE 4-1 (MANUFACTUR.COST 10% UP)

*** P / L ***	2009	2010	2011	2012	TOTAL
SALES	80,339	95,061	95,061	95,061	1,794,176
VARIABLE COST	44,153	52,500	52,500	52,500	990,292
MANUFACTUR.COST	28,923	34,425	34,425	34,425	650,194
SELLING EXP.	15,229	18,075	18,075	18,075	340,098
EXCISE DUTY	6,279	7,461	7,461	7,461	140,494
SDF	7,146	8,473	8,473	8,473	159,379
EGEAF	1,718	2,038	2,038	2,038	38,309
JPC	86	102	102	102	1,915
FIXED COST	12,140	12,140	12,140	12,140	448,503
LABOR	3,240	3,240	3,240	3,240	65,437
DEPRECIATIONS	857	857	857	857	225,417
B.F.RELINING	406	406	406	406	7,917
FIXED MATERIAL	6,269	6,269	6,269	6,269	122,485
OTHER FIXED EXP.	1,368	1,368	1,368	1,368	27,247
OPERATING COST	56,293	64,640	64,640	64,640	1,438,795
OPERATING INCOME	24,047	30,420	30,420	30,420	355,381
INTEREST INCOME	65	32	65	97	2,022
INTEREST PAID	0	0	0	0	64,505
SHORT TERM LOAN	0	0	0	0	559
SDF LOAN	0	0	0	0	28,855
(STEP1)	(0)(	0)(	0)(	0)(	13,159)
(STEP2)	(0)(	0)(	0)(	0)(	15,696)
FOREIGN LOAN	0	0	0	0	35,090
(STEP1)	(0)(	0)(	0)(	0)(	19,472)
(STEP2)	(0)(	0)(	0)(	0)(	15,617)
I.D.C.	0	0	0	0	11,174
(STEP1)	(0)(	0)(	0)(	0)(	5,849)
(STEP2)	(0)(	0)(	0)(	0)(	5,325)
INCOME BEFORE TAX	24,112	30,453	30,485	30,518	304,073
LOSS BROUGHT FWD.	0	0	0	0	-1,617
TAXABLE INCOME	24,112	30,453	30,485	30,518	302,455
INCOME TAX	12,056	15,226	15,243	15,259	152,036
INCOME AFTER TAX	12,056	15,226	15,243	15,259	152,036
ACCUMULATED INCOME	106,308	121,535	136,777	152,036	

CASE 4-1 (MANUFACTUR.COST 10% UP)

*** B / S ***	2009	2010	2011	2012	TOTAL
DEPO(RELINING)	203	609	1,015	1,421	
CASH-IN-HAND	669	792	792	792	
EXCESS CASH	201,808	218,977	235,093	251,225	
ACCT. RECEIVABLE	6,695	7,922	7,922	7,922	
LIQUID ASSETS	209,375	228,300	244,822	261,360	
FINISHED GOODS	3,347	3,961	3,961	3,961	
WORK-IN-PROCESS	1,339	1,584	1,584	1,584	
MATERIALS,SUPPLIES	2,678	3,169	3,169	3,169	
SPARES&STORES	5,243	5,243	5,243	5,243	
CURRENT ASSETS	221,983	242,257	258,779	275,317	
1.LAND	5,737	5,737	5,737	5,737	
2.BUILDINGS	7,274	6,789	6,304	5,818	
3.MACHINERY	9,648	9,648	9,648	9,648	
4.VEHICLES	1,390	1,111	831	551	
5.INVENTORIES	0	0	0	0	
6.PRE-OPERAT. EXP.	0	0	0	0	
7.I.D.C.	0	0	0	0	
OLD PLANT	1,316	1,224	1,132	1,039	
FIXED ASSETS	25,366	24,508	23,651	22,794	
ASSETS TOTAL	247,348	266,765	282,430	298,111	
ACCOUNT PAYABLE	3,347	3,961	3,961	3,961	
RESERVE FOR TAX	12,056	15,226	15,243	15,259	
SHORT LOAN	0	0	0	0	
CURRENT LIABILITIES	15,403	19,187	19,204	19,220	
RESERVE(RELINING)	203	609	1,015	1,421	
SDF LOAN	0	0	0	0	
(STEP1)	(0)(	0)(	0)(	0)	
(STEP2)	(0)(	0)(	0)(	0)	
FOREIGN LOAN	0	0	0	0	
(STEP1)	(0)(	0)(	0)(	0)	
(STEP2)	(0)(	0)(	0)(	0)	
FIXED LIABILITIES	203	609	1,015	1,421	
LIABILITIES TOTAL	15,606	19,796	20,219	20,641	
CAPITAL STOCK	125,434	125,434	125,434	125,434	
RETAINED EARNING	106,308	121,535	136,777	152,036	
EQUITY	231,742	246,969	262,211	277,470	
LIABILITY&EQUITY	247,348	266,765	282,430	298,111	

CASE 4-1 (MANUFACTUR.COST 10% UP)

*** C / F ***	2009	2010	2011	2012	TOTAL
INCOME BEFORE TAX	24,112	30,453	30,485	30,518	304,073
DEPRECIATIONS	857	857	857	857	225,417
B.F.RELINING	406	406	406	406	7,917
RELEASE(RELINING)	1,624	0	0	0	6,496
CAPITAL STOCK	0	0	0	0	125,434
(STEP1)	(0)(	0)(	0)(	0)(	61,652)
(STEP2)	(0)(	0)(	0)(	0)(	55,194)
(OLD PLANT)	(0)(	0)(	0)(	0)(	8,588)
SDF LOAN	0	0	0	0	39,206
(STEP1)	(0)(	0)(	0)(	0)(	17,972)
(STEP2)	(0)(	0)(	0)(	0)(	21,234)
FOREIGN LOAN	0	0	0	0	88,814
(STEP1)	(0)(	0)(	0)(	0)(	49,529)
(STEP2)	(0)(	0)(	0)(	0)(	39,285)
SHORT LOAN	0	0	0	0	3,995
SOURCES OF FUNDS	26,999	31,716	31,749	31,781	801,352
INVESTMENTS	0	0	0	0	253,454
(STEP1 PLANT)	(0)(	0)(	0)(	0)(	123,304)
(I.D.C.)	(0)(	0)(	0)(	0)(	5,849)
(STEP2 PLANT)	(0)(	0)(	0)(	0)(	110,388)
(I.D.C.)	(0)(	0)(	0)(	0)(	5,325)
(OLD PLANT)	(0)(	0)(	0)(	0)(	8,588)
REPAY SDF	0	0	0	0	39,206
(STEP1)	(0)(	0)(	0)(	0)(	17,972)
(STEP2)	(0)(	0)(	0)(	0)(	21,234)
REPAY FOREIGN	0	0	0	0	88,814
(STEP1)	(0)(	0)(	0)(	0)(	49,529)
(STEP2)	(0)(	0)(	0)(	0)(	39,285)
B.F.RELINING EXP.	1,624	0	0	0	6,496
RESERVE(RELINING)	406	406	406	406	7,917
REPAY SHORT	0	0	0	0	3,995
EXCESS CASH	12,897	17,169	16,116	16,132	251,225
TAX	12,072	12,056	15,226	15,243	136,777
WORKING CAPITAL	0	2,085	0	0	13,467
APPLICATIONS TOTAL	26,999	31,716	31,749	31,781	801,352
CASHFLOW(BEF.TAX)	24,969	29,225	31,343	74,300	369,998
CASHFLOW(AFT.TAX)	12,897	17,169	16,116	43,798	217,962
CASHFLOW(B.O.E.)	12,897	17,169	16,116	42,377	152,036

87/02/13
CASE 4-1 (MANUFACTUR.COST 10% UP)

I.R.R. 14471 = 8.723 %

	CASH-FLOW	DIS CASH-FLOW
0	0.000	0.000
1	-308.000	-743.170
2	-3402.000	-2877.984
3	-17434.000	-13565.262
4	-39071.000	-27961.645
5	-79065.000	-52043.862
6	-81559.000	-49378.078
7	-15561.868	-8665.649
8	24488.785	12542.486
9	31342.714	14764.884
10	31375.194	13594.302
11	31407.674	12516.512
12	31440.154	11524.159
13	31472.634	10610.472
14	27151.784	8419.320
15	24968.854	7121.219
16	29224.745	7666.259
17	31342.714	7562.170
18	31375.194	6962.629
19	31407.674	6410.615
20	31440.154	5902.359
21	31472.634	5434.394
22	27151.784	4312.146
23	24968.854	3647.294
24	29224.745	3926.448
25	31342.714	3873.136
26	74209.953	8444.847
TOTAL	369998.092	0.000

87/02/13
CASE 4-1 (MANUFACTUR.COST 10% UP)

I.R.R. (448) = 6.374 %

	CASH-FLOW	DIS CASH-FLOW
0	0.000	0.000
1	-808.000	-759.587
2	-3402.000	-3006.540
3	-17434.000	-14484.255
4	-39071.000	-30515.467
5	-79065.000	-58051.860
6	-81559.000	-56295.040
7	-15561.868	-10097.790
8	24488.785	14938.198
9	29174.278	16730.059
10	27965.704	15076.116
11	27645.299	14010.428
12	27292.227	13002.757
13	26939.154	12065.541
14	22232.751	9361.004
15	22383.679	9057.773
16	26618.978	9979.394
17	25396.944	8884.026
18	24551.946	8073.849
19	23906.112	7390.436
20	23801.717	6917.286
21	19814.856	5413.582
22	11969.759	3074.296
23	12397.015	3113.980
24	17168.958	3897.058
25	16116.237	3438.927
26	43798.278	8785.829
TOTAL	217961.808	0.000

87/02/13
CASE 4-1 (MANUFACTUR.COST 10% UP)

I.R.R. (440) = 6.156 %

	CASH-FLOW	DIS CASH-FLOW
0	0.000	0.000
1	-268.000	-252.459
2	-2475.000	-2196.280
3	-11262.000	-9414.219
4	-26122.000	-20569.864
5	-47640.000	-35338.698
6	-37667.000	-26320.767
7	0.000	0.000
8	3623.907	2247.124
9	11754.753	6866.252
10	9586.074	5274.767
11	10004.295	5185.674
12	10389.847	5073.226
13	10775.400	4956.381
14	6307.621	2949.734
15	8197.175	3345.861
16	12871.098	4948.979
17	17071.236	6183.313
18	20560.976	7015.461
19	20156.410	6478.612
20	20293.284	6144.370
21	16547.691	4719.747
22	10271.030	2759.634
23	12897.015	3264.247
24	17168.958	4093.492
25	16116.237	3619.678
26	42377.278	8965.935
TOTAL	152036.284	0.000