Table 6: Source of Fund (000 Br)

Ta	ble 6: Source	% Share	Amount (Br)
No	Source	30	24,450
1	Promoter's equity contribution		57,050
2	Bank Loan	70	57,030
2	Dank Botti	100	81,500
	Total		

T. I. T. I am Dishursement and payment schedule (000 Br)

Years	Loan Disbursement	Principal Repayment	Year ending balance	Interest payment
0	57,050		57,050	1 3 1
1		8,150	48,900	5,705
2		8,150	40,750	4,890
3		8,150	32,600	4,075
4		8,150	24,450	3,260
5		8,150	16,300	2,445
6	The Real Property lives	8,150	8,150	1,630
7		8,150		81

> Total Loan..... Br. 57,050,000

> Interest rate/annum..... 10%

> Loan repayment period----- 7 years



Table 20: Financial Analysis of the Project discounted at 10% after tax

Table 2	20: Financial Analysis	discounted factor	
('000Br	Benefit /income after tax	at 10	Present Value
100	(Cash inflow)	1	(81,500)
	(81,500)		
0	17,529	0.9091	15,936
1	21,248	0.8264	17,559
2	24,467	0.7513	18,382
3		0.6830	17,609
4	25,782	0.6209	16,514
5	26,597	0.6209	
6	19,772	3/20/20/20/20/20/20/20/20/20/20/20/20/20/	10.110
7	20,302	0.5132	
8	20,831	0.4665	9,718
9	20,831	0.424	8,834
10	20,831	0.385	5 8,030
V			134,162
PV			52,66
			45°
RR			1.6
/C			



No	ble 13: Fuel, oil Description	Annual Travel (km/hrs)	Fuel consumpti on per unit	Total Fuel Consumed (lit)	Unit cost (Br)	Total Cost ('000 Br.)
1	Truck (2)	20,000 km	0.3	6,000	20	120
2	Pick up (4WD) (2)	40,000 km	0.2	8000	20	160
4	Service Bus (3)	30,000 km	0.3	9000	20	180
5	Motor cycle (2)	20,000 km	0.1	2000	20	40
6	Generator (2)	2000 hrs.	5	10,000	20	200
	Total Fuel cost					700
	Oil and lubricant 10% of fuel cost					70
	Total fuel, oil and lubricant Cost					770



Table 14: Assumptions for some operating costs (000 Br)

	able 14: Assumption	Annual	Assumptions Used
No	Description	Cost (000	
		Br)	
1	Property insurance	746	1 % of fixed investment Cost
2	Repairer and Maintenance	746	1 % of fixed investment Cost
3	Annual land lease payment	422	
4	Working clothes (protective wears)	662	10% of annual salary
5	Travel expenses (perdiem)	331	5% of annual salary
5	Employees Benefits (Bonus, medical expense, etc)	662	10% of annual salary
7	Telephone, Postage and Fax	120	10,000 Br/month
	Stationery and office supplies	36	3000 Br/month
	Marketing and distribution cost	1,750	1,250,000 Br/year
0	Audit, legal and license fee	50	50000 Br/year
1	Other unforeseen (miscellaneous expense)	120	10,000 Br/month
	Total	5,645	



Table 18: Profit and /loss statement of the project ('000 Br)

				PR	OJECT	YE				1
Description	1	2	3	4	5	6	7	8	9 \	10
Project Revenue	93,840	105,570	117,300	117,300	117,300	117,300	117,300	117,300	117,300	117,300
Less: Operating Cost	70,606	79,432	88,258	88,258	88,258	88,258	88,258	88,258	88,258	88,258
Operating profit	23,234	26,138	29,042	29,042	29,042	29,042	29,042	29,042	29,042	29,042
Less Depreciation	5,583	5,583	5,583	5,583	5,583	5,583	5,583	5,583	5,583	5,583
Less Bank interest	5,705	4,890	4,075	3,260	2,445	1,630	815			
Gross Profit	11,946	15,665	19,384	20,199	21,014	21,829	22,644	23,459	23,459	23,45
Less:	-	-	-	-	-	7,640	7,925	8,211	8,211	8,21
35% Net Profit	11,946	15,665	19,384	20,109	21,014	14,189	14,719	15,248	15,248	15,248

Table 17: Revenue Estimate of the project ('000Br)

Ta	ble 17: Revenue	Unit		Project Yea	r
No	Description Capacity	selling price(Br/Ton)	1	2	3-10
	Window	42,000	40,320	45,360	50,400
1	Wildow		40.220	45,360	50,400
2	Door	42,000	40,320	45,500	00,100
3	Stair	25,000	6,000	6,750	7,500
3	Stall		5.000	6.750	7,500
4	Partition	25,000	6,000	6,750	7,500
5	Others	10,000	1,200	1,350	1,500
	Total		93,840	105,570	117,300



ONI	Description	0	PPO IBOT (000 Birr)		O THE CAME	Tue pro	roject (000 B	arr)			
-	Cash inflow		-	2	3	4 5	5 6	ARS	1			T
	Dromoter's	077 750							0	6	10	
	contribution	004,42						T	+	1	1	
-115	Bank Loan	57,050										
	Not seed 5											
	net pront	×	11,946	15,665	19,384	20,199	21,014	14,189	14,719	15,248	15,248	15,248
1	Depreciation		5,583	5,583	5,583	5,583	5,583	5,583	5,583	5,583	5,583	5,583
	Total inflow	81,500	17,529	21,248	24,967	25,782	26,597	19,772	20,302	20,831	20,831	20,831
2	Cash out flow											
	Fixed	76,458										
	investment											
	Working	5,042										
	capital					000	000	003	630	630	089	0 630
1	Increase in		631	630	630	630	930	000				
	W.C			1		0 150	8 150	8.150	8,150			
	Loan		8,150	8,150	8,130		0,10					
200	Repayment			0 700	087.8	8.780	8,780	8,780	8,780	630	0 630	000
	Total out	81,500	8,781	00,1,00								
	flow				_	100	17817	9.992	11,522	20,201	20,201	
	Mot inflort		8,748	12,468	16,187	700	110,11	1	-	113,937	134,138	8 154,339
	Net IIIIOw	T. Mary	10	21,216	37,403	54,405	72,222	82,214	90,100			
	Cumulative	The same of the sa	113									
	Balance	1160	227									
1		Go' Dev	\$ 1000 to									
		San	Jud one									
		Cons	Il and									

Table 21: Payback Period Calculation ('000Br.)

.10 21: 1	Payback Period	1.1 book		Balance of
Operation	Amou	int paid back		
	Net profit	Depreciation	Total	initial
year	Hear			investment at
				year end
				81,500
0 year				(60.071)
Year 1	11,946	5,583	17,529	(63,971)
Year *		5,583	21,248	(42,723)
Year 2	15,665	3,365		
Year 3	19,384	5,583	24,467	(18,256)
Year o			25,782	(7,526)
Year 4	20,199	5,583	25,762	(7,020)
	21,014	5,583	26,597	19,071
Year 5	21,011			
Year 6	14,189	5,583	19,772	
Year 7	14,719	5,583	20,302	
'ear 8	15,248	5,583	20,831	
ear 9	15,248	5,583	20,831	
ear 10	15,248	5,583	20,83	1

The payback period of the project is 4.5 years



				21,695
Total Cost # 4				
Vehicles			-70.000	
Courier Truck	No	2	850,000	1,700
	и	2	750,000	1500
Pick-up (4WD)				
Service bus	L	3	750,000	2250
Motor bicycle	67	2	50,000	100
			5550	833
Spare parts (15%)			3330	000
Total of # 5	"	-	6728	6,383
Office furniture	Set	-		1,500
G. Total (1-6 above)				76,458
	Courier Truck Pick-up (4WD) Service bus Motor bicycle Spare parts (15%) Total of # 5 Office furniture	Vehicles Courier Truck Pick-up (4WD) Service bus Motor bicycle Spare parts (15%) Total of # 5 " Office furniture Set	Vehicles No 2 Courier Truck No 2 Pick-up (4WD) " 2 Service bus " 3 Motor bicycle " 2 Spare parts (15%) " - Total of # 5 " - Office furniture Set -	Vehicles No 2 850,000 Courier Truck " 2 750,000 Pick-up (4WD) " 3 750,000 Service bus " 2 50,000 Motor bicycle " 2 50,000 Spare parts (15%) " - 6728 Office furniture Set -



Pressing Machine		4	350,000	1,400
PIESSING				
1 Luming	47	2	220,000	440
Straightening	.0	2	200,000	400
Bending machine		10	10,000	100
Vice				
Assembly Table	0	6	50,000	300
Lathe machine		4	200,000	800
Coloring equipments	set	L.S	L.S	500
Measuring & hand tools	Set	L.S	L.S	150
Fork lift machine	No	2	650,000	1,300
Staff Cafeteria Equipments	set	-	-	250
Staff Clinic equipments	to.	-	-	50
Generator	No	2	1,250,000	2500
Pump	"	2	150,000	300
Compressor		1	250,000	250
Fuel Tanker	0	1	20,000	20
Water Tanker/Reservoirs	11	1	40,000	40
Work shop equipments and tools	set		-	300
Other equipments (store, display room etc)	"			500
S.Total (#4)			18,460	17,150
Contingency (10%)				1,715
pare parts (15% of) above				2,830
1 (0 0 0	Assembly Table Lathe machine Coloring equipments Measuring & hand tools Fork lift machine Staff Cafeteria Equipments Staff Clinic equipments Generator Pump Compressor Fuel Tanker Water Tanker/Reservoirs Work shop equipments and tools Other equipments (store, display room etc) 3. Total (#4) Contingency (10%)	Bending machine Vice Assembly Table Lathe machine Coloring equipments Measuring & hand tools Fork lift machine Staff Cafeteria Equipments Generator Pump " Compressor Fuel Tanker Water Tanker/Reservoirs Work shop equipments and set tools Other equipments (store, display room etc) S.Total (#4) Contingency (10%)	Bending machine Vice	Bending machine Vice Assembly Table Lathe machine Coloring equipments Measuring & hand tools Fork lift machine Staff Cafeteria Equipments Generator No Compressor Fuel Tanker Water Tanker/Reservoirs Other equipments (store, display room etc) S. Total (#4) Contingency (10%)



Table 8: Fixed Investment of the project (000 Br)

No	Description	Unit	Qty	Unit cost	Total Cost (000Br)
1	Pre- Production expenses	-	-		1,500
2	Land cost	-			1,875
3	Building and civil works				
3.1	Administration Offices	m ²	300	5000	1,500
3.2	Tools and Equipments Store	0	200	4000	800
3.3	Input/ raw materials store	и	1600	3000	4,800
3.4	Output store	- 0	750	5,000	3,750
3.5	Factory hall	u	3000	5000	15,000
3.6	Workshop	10	200	3000	600
3.7	Machinery and Vehicles shedding		800	3000	2,400
.8	Toilet and wash room/shower	u	250	4000	1,000
9	Show room/Display room	"	150	4000	600
10	Staff Cafeteria	()	250	4000	1,000
11	Staff clinic	o	50	4000	120
2	Generator Room	0	20	3000	60

3.

3.

		" "	30	4000	120
3.13					250
3.14					
	existing supply			-	500
3.15	Electricity installation	2		-	50
3.16	Telephone installation	66		•	
3.17	Parking area, Internal road,	-	3,400		5,500
	Garbage quarter and				
	Fencing				
3.18	Water Well drilling and	-	1500		1,500
	connections		-		
	Sub Total			32,750	39,550
	Contingency (10%)				3,955
	Sub Total (#3)				43,505
4.	Machinery and				
	Equipments				
4.1	Shearing/Cutting Machines	No	4	500,000	2,000
4.2	Drilling machine,	67	4	250,000	1,000
4.3	Welding Machine	0	4	250,000	1,000
4.4	Cleaning/polishing	62	2	350,000	700
	Machine				
1.5	Assembling Machine	()	3	450,000	1,350
.6	Casting Machine		2	750,000	1,500



Table 15: Depreciation schedule (000Br)

No	Description	Pescription Value		Depreciation per year	
1	Building and civil works	43,505	5	2,175	
2	Machinery and equipments 21,695	10	2,17		
3	Vehicles	6,383	10	638	
4	Office and plant furniture's	1,500	20	300	
5	Pre-Production expenses	1,500	20	300	
	Total	74,583		5,583	

Table 16: Production plan of the Project

No	Description	Unit	91	Project Year	ct Years	
		%	1	2	3-10 100	
	Capacity		80	90		
1	Window Profile	Ton	960	1,080	1,200	
2	Door Profile	O	960	1,080	1,200	
3	Stair	0	240	270	300	
4	Partition	O	240	270	300	
5	Others Tubes Bars Etc	o	120	135	150	



rating costs of the project (000 Br)

	Table 9: Operating costs of t		Year	
	Description	1	2	3-10
No		59,080	66,465	73,850
1	Raw Materials and inputs	1,100	1,238	1,375
2	Utilities	5,294	5,955	6,618
3	Salary and wage	616	693	770
4	Fuel, oil and lubricant	4,516	5,081	5,645
5	Other operating cost(table 8)			88,258
	Total	70,606	79,432	66,256

Table 10: Working capital determination (000 Br)

Ta	ble 10: Working capital dete	Duration	Years			
No	Description	In month	1	2	3-10	
1	Raw Materials and Inputs	0.5	2,462	2,769	3,077	
2	Utilities	4	388	436	485	
3	Salary and wage	3	1,324	1,490	1,655	
4	Fuel, oil and lubricant	3	154	174	193	
5	Other operating cost (Table 13)	2	714	804	893	
	Total		5,042	5,673	6,303	



			BA Management	6	6000	72
11	General Service	1	BA Management Dip/pup relation	2	3000	36
1250	head Public relation	1		2	3000	72
12	worker	2	Dip/Acct	$\frac{2}{2}$	3000	72
13	Accountants	2	0	$\frac{2}{2}$	2000	96
14	Cashiers	4	10th grade & 3rd	2		
15	Drivers		driving license	1	1500	54
	Ass. Driver	3	8th grade 2nd driving	1		
16	ASS. Dilver		license	2	3000	72
17	Nurse/First Aid	2	Dip/Nursing			
17	worker		Basic		1500	36
18	Gardener/Gener	2	Dasic			
	ator operator	0	ø		1500	36
19	Office Boy/Girl	2	D1 /0 1 110	2	3000	. 72
20	Secretary/Recep	2	Dip/Secretarial Sc.	2		
	tionist		DA /Managara	4	5,000	60
21	Personnel	1	BA/Management		4,000	192
22	Mechanic	4	Dip/Auto mechanic	3		
23	Electrician	4	Dip/Electricity	3	4,000	192
24	Welder	4	Dip/Metal Technology	3	4,000	192
25	Painter	4	Dip/Metal Technology	3	4,000	192
26	Property administration workers	4	Dip/property adm.	3	3,000	144
27	Cleaner	10	Basic		1500	180
28	Purchaser	2	Dip/Purchasing & pro Adm.	2	1500	36
29	Guards	10	Basic		1500	180
	Sub Total of permanent	153			-	5,118
30	Other laborers	150			-	1,500
	Sub total	303				6,618

09/163/666

9.3. MANPOWER REQUIREMENT

The project will create new job opportunity for 303 employees (150 Female & 153 Male while operating at full capacity; employees are local employees off which 153 (93 skilled & 60 Unskilled) permanent and 150 temporary (15 skilled & 135 unskilled) local employees. The list of employees required for the plant listed in accordance with their positions and their corresponding salary in the manning table 4 below

TABLE 4: MAN POWER REQUIREMENTS AND THEIR ANNUAL SALARY BILL.

No	ORDER OF AN ADMINISTRA	Qty	Qualification	Servic e Year	Monthly salary	Annual Salary ('000 Br)
1	General manager	1	BA/Mgt	10	15,000	180
2	Production Head	1	BSC/Eng	8	12,000	144
3	Personnel Administration & Finance Head	1	BA Accounting	8	12,000	144
4	Store workers	2	Dip/ in Purchasing	2	3000	72
5	Production workers	75	Basic		2,000	1,800
	Marketing Head	1	BA/Marketing	8	12,000	144
	Marketing Experts	2	BA/ Marketing	3	4,000	144
	Sales workers	2	Dip/ Marketing	2	3000	72
	Shift Leaders	2	BSC/Manufacturing	6	10,000	240
	Quality Control experts	2	BSC/Chemistry, industrial Engineering	5	8,000	192



The project under study viewed taking 10% increase in the operating cost and 10% decrease in the selling price/service charge.

At 10% increment of operating cost and 10% decrease in selling price/revenue; the FIRR after tax has turned to 42% and 39% respectively. This implies the project is more sensitive to change/ decrease in price than to change/ increment in operating cost. Therefore, the promoter should give attention to factors that contribute to change/down turn of price (such as service quality, sustainability of supply/loyalty, promotion efficiency, etc)

Table 5: Summary of Investment cost ('000'Br.)

No.	Description	Local cost (Br)	Foreign cost (Br.)	Total cost (Br)
I	Land cost	1,875		1,875
1	Building and civil cost	43,505		43,505
2	Machinery and Equipments	0	21,695	21,695
3	Vehicles	0	6,383	6,383
1	Office furniture	1,500		1,500
5	Pre-production expenses	1,500		1,500
	Total Fixed investment cost	48,380	28,078	76,458
	Initial working capital	3,000	2,042	5,042
1	Total initial investment	51,380	30,120	81,500

