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UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION PROJECT VIE 89/027

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FEASIBILITY STUDY ON THE DEVELOPMENT

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OF CHAU CUONG MARBLE QUARRY

IN NGHE AN PROVINCE

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HANOI, APRIL 1994

UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION PROJECT VIB 89/027

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OF CHAU CUONG MARBLE QUARRY

IN NGHE AN PROVINCE

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MINERAL DEVELOPMENT COMPANY

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INTRODUCTION

It is known that Nghe an province has marble resources, their colour and quality is up to the mark to have been accepted by the domestic and overseas markets. Because of everincreasing of market demand the exploitation of this commodity is intensified in this region especially in Lang Do and Thung Khang areas. To support the production requirement, United Nations Industrial Development Organization has rendered with support Project VIE/89/027 in geological exploration to evaluate the quality and reserve of marble in the area. A detail Geological Survey Report on the marble at the scale of 1/5000 had been completed by the Mineral Development Company (MIDECO) in March 1994.

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A feasibility study report has been drafted in accordance with the terms of the contract No.93/250 signed between the MIDECO and UNIDO.

Data source has been collected during the field trips in December 1993 and January 1994 by MIDECO group of specialists lead by Le Thac Chien, Chief geologist of MIDECO. All the related geological informations have been used for compiling geological report on marble of the Quy Hop area which has been submitted to UNIDO in March 1994.

Basing on the obtained results from detailed exploration work and in consultation with the National Project Director VIE/89/027 -Dr. Tran Van Danh, the group of experts has chosen the Chau Cuong area for feasibility study report formulation with following advantages :

- Marble in Chau Cuong area is good in quality and nice colour much more superior to that of Lang Do area which has been accepted by the domestic and foreign markets. Its colour is sugar white, coarse grain, good blockage and rather high recovery during the quarrying production.
- Favourable transport, power, water supply condition for guarrying besides.
- The local manpower is quite available for work mobilization to serve quarrying operation.

In general, the Chau Cuong is considered to have better conditions for production of marble blocks.

I. MARKET ANALYSIS

Stone industry and production has taken root for a long history. Some countries have been ever-developing dimension stone industry production such as : Italy, France, Germany Once a country's economy is developed, there is a need for the ever-increasing in natural facing stone in term of quality and quantity. The utilization of stone as marble or granite products depends on the projected work. In recent years, some foreign companies from Germany, Japan, Malaysia, Netherlands... have purchased marble from Vietnam of which white marble of the Nghe an province have been attracted by many customers because of its beautiful colour, competitive price in comparison with the same product of other countries in the world.

For the last recent years, the Government has reformed the state policies in economy "Open-door-policies", all the sectors of economy would be open to "Corporatisation". All the construction projects of "King size" as banks, hotel, representative offices of various foreign companies, international organisations, villas, private large and mini-hotel, guest houses... badly demand facing stones as natural sources. To meet the market demand, many stone processing plants have been set up by the state-owned enterprises or by the private entities.

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A concrete factory of the Vinh City (300km down-south of the Hanoi capital) has been supported by a UNDP project VIE/89/027 "Geological exploration feasibility study of marble and granite, the factory has been provided with a tile production line at the capacity of 20.000 m2 per year. Some premises from the province of Thanh hoa, Hanoi and some from the south part of Vietnam have purchased at large quantity of white marble blocks quarried from Nghe an (about 1000 m3). It is possible that exported capacity of 1000 m3/year of the white marble of Nghe an province can be done in a few year if the marble sized blocks are accepted by overseas markets.

The tile processing sectors have the present production of 3-3.5 million square metres in all country, including white marble quantity accounted for 10-15%. It equals approximately to 300,000-525,600 sq.m, so annual demand of th. processing sectors needs marble block quantity of 1500-2600 c.m. Tile product is usually used as material for covering floor and wall of hotel, office etc. and even of private buildings. In two next coming years, annual consumption of white marble of 2,500 cub.m is able to be realized. This number will be ever-increased and oversea market consumption of 1000 cub.m per year besides. To have the project be positively feasible, the production of Chau Cuong quarry should be designed as 3000 cub.m per year. In first two years, the quarry capacity is 2000 cub.m only. Nevertheless from third year on it could be increased of 3000 cub.m to supply more to oversea market. According as colour and quality of marble, the sold price are different. At the present time, some kinds of white marble in areas of Vietnam with equivalent quality or even less are all sold at price of 120-160 USD per cubic metre. In some provinces as in Thanh Hoa, Thai Nguyen, it is exported at 250-270 USD/m3, but its amount is still not big because quarrying conditions are difficult, ability of big block quarrying for exportation still restricted in there.

Out of actual circumstances of domestic and foreign markets there is a need to invest in a quarrying line in the Chau Cuong area with the purposes to :

- Supply raw materials for various stone production premises in Vietnam
 - Use effectively the natural resources

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Export dimension stone to various foreign countries to earn hard currencies.

For the first two years of quarrying the annual production would be 2000 m3 to meet the demand of domestic consumption, from the third year onward the annual production would be estimated at 3000 m3/year, of which 2000 m3 for domestic market, and 1000 m3 for overseas export.

For years the exploitation of marble in Nghe An has been done in not rightway, beside exploitation done on boulders, the explosive also has been used causing cracks in the blocks so the recovery of tiles is very low, which made the production price very high, comparing to the price of marble produced in neighbouring provinces. The improvement of quarrying technics and facility in Nghe an marble quarries is necessary to help the tile producers keep competitive price.

II. GEOGRAPHY AND TRANSPORTATION

With an area of about 3 sq.km, Chau Cuong area is bounded by the following coordinates :

Longitude : 105° 07′ 50° - 105° 09′ 10° Latitude : 19° 20′ 05° - 19° 20′ 45°

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7 km from Quy Hop town to the west and belongs to the topo-mapsheet 6047-IV series 17014 Ban Dan at the scale 1:50,000, Chau Cuong area is predominant in limestone mountains with elevation from 60 m to 120m above the Quaternary sediment plain in the region. Existing flora is mainly developed as bushes and with sloping angle of the hills $30^{\circ} - 40^{\circ}$.

Climate in the area is clearly distinguished as two seasons : dry and rainy season. Rainy season starts from June to November and dry season from December to May of the year, rain fall volume is rather high : from 2500-3000 mm/year. During the dry season the impact of "Lao's wind" rushing from the west over the Truong son range fanning dry and hot air to the area. There is one water spring at the coordinate 21.38.10N - 5.15.25E and Con river flowing through the mining area, those sources can supply water to the quarry.

Transportation facility is rather favourable. There is asphaltic road linking Quy Hop town with National way No.1 at Yen Ly village with a distance of 70km, then turning south to Vinh city about 50km. (Fig.1)

Transportation is smooth during the raining season. Quarrying equipments or mined product can be moved along the asphaltic road from the Quy Hop District to the Ban Hat, through the studied area.

There is one electric transmission line of 35 KV going through the area near to the quarrying site, and next to exploitation block B2 (ref. reserve map), there is a substation supplying power to local people.



III. GEOLOGICAL SETTING, QUALITY AND RESERVE OF MARBLE

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III.1. GEOLOGICAL SETTING :

Rocks in Chau Cuong area comprise white-coarse grain marble, white-coarse grain marble with black spots, black marble, all these rocks are of Early Palaeozoic age of the Len Buc Suite, thickly-bedded texture 0.6m-2.5m, homogenous composition 98-100% calcite with various granular properties from 0.5mm to 1.5mm. The thickness of the white marble sequence is about 300m.

Generally, rocks in the area are strongly impacted by the tectonic and weathering activities in the upper part. The crack density varies from 1m to 3.5m, sometimes joints occurred along the strike. However, there are two kinds of joints which must be well differed :

- Tectonic joints : These joints reduce the stone blockage grade, they remain by the system 040/68; 286/70; 230/80.
- Exogenetic joints : This kind of joints do not have the definite direction, they also do not much impact in the product recovery when quarrying is conducted indepth. These only appear on the thin surface crust of the stone. The inclining of the marble beds is 210°/20° dipping to the SWS.

III.2. QUALITY :

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Quality of the marble in the Chau Cuong is good, colour is beautiful, it can be exploited as facing stone owing to the following properties :

<u>Colour</u>: White sugar, white with black spots, white with green strips parallel to the layered surface.

Petrographical properties :

Main composition is calcite, nearly 100%, with grain size 0.5mm - 1.5mm

<u>Chemical properties</u> :

High content of CaO, low content of MgO CaO : 54.72% - 55.02% MgO : 0.77% - 1.30%

The other oxidic matters are also low : SiO2, Fe2O3, P2O5

<u>Mechanical properties</u> :

It is characterized by the following specifications :

Mechanical properties of Chau Curng marble

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	Specification	Max	Min	λve- rage	Quantity of sample	Remark
1	Density g/cm3	2800	2700	2750	6	White coarse grain marble
2	Water absorp- tion (%)	0.38	0.07	0.30	12	- do -
3	Abration g/cm2	0.43	0.37	0.40	12	- do -
4	Porosity (%)	0.22	0.36	0.97	6	- do -
5	Depth of softening	0.98	0.91	0.95	6	- do -
6	Compressive strength dan/cm2	530	437	496		- do -

III.3. RESERVE :

Reserve calculation was done basing on the acceptable colour, blockage grade, quality of stone. Chau Cuong marble was divided into 4 block reserve, calculation (Table.2) : Blocks A1; A2; For white coarse grain marble. Blocks B1; B2; For white mixed with black spot, white coarse grain with strips.

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Reserve calculation was showing on the following table

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Block	Area (m2)	Thick- ness	Quantity (m3)	Recovery (%)	Reserve
	20,000	20	400,000	20	80,000
	37,500	20	750,000	20	150,000
λ1	62,500	20	1,250,000	20	250,000
	95,000	20	1,900,000	20	380,000
	140,000	20	2,800,000	20	560,000
	6,250	20	125,000	20	25,000
A2	42,000	20	850,000	20	170,000
	57,000	20	1,150,000	20	230,000
	70,000	20	1,400,000	20	280,000
	7,500	20	150,000	20	30,000
	22,500	20	450,000	20	90,000
B1	42,500	20	850,000	20	170,000
	62,000	20	1,250,000	20	250,000
	77,000	20	1,550,000	20	310,000
	102,000	20	2,000,000	20	400,000
B2	6,250	20	125,000	30	37,500

Marble reserve of the Chau Cuong area

Table 2

Total : 3,412,500 m3

Block A1 and B2 should be given priority exploitation in the first stage owing to the good condition for quarry opening and high recovery.

IV. QUARRYING DESIGN PARAMETERS

IV.1. QUARRYING CONDITION :

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Quarry site needs to be designed where natural condition, transportation, water and power supply is favourable.

- <u>Transport facility</u> is favourable. There is an asphaltic road going to Vinh City for transport of needed equipments for quarrying as well as for marble blocks to processing plant and to sea port of Cua Lo.
- <u>Power supply</u>: At the quarrying site of Chau Cuong there exist a substation of transmission power line of 35KV which is used for electricity supply for local people and enterprises, so our quarry can use that substation for its power demand .

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- <u>Water supply</u> : As for drinking water supply, wells should be drilled into the Quaternary sedimentary horizons in the area. The depth of the wells is estimated down to 30-50m. Besides, water from spring can be used.
- <u>Communication and other services</u> : The distance from the quarrying site to the center of the Quy Hop district is only 6km, so a common Liasion line should be established for communication within the country and for telecommunications outside Vietnam.

In general, the infrastructure facilities addressed above is good enough for opening of the quarry in the Chau Cuong area.

IV.2. DIMENSION OF THE QUARRIED BLOCKS :

According to the Geological settings, the blockage grade of marble in the Chau Cuong area, dimension classification can be made as follows :

Class 1(st)	2.5mx1.5mx1.2m
Class 2(nd)	1.5-2.0mx1.2mx1.0m
Class 3(rd)	1.0-1.5mx1.0mx1.0m

The first class is for export requirement and for gangsaw cutting, the second and third ones can be used for cutting by block cutters in the processing plants in Vinh City and other.

IV.3. DESIGN CAPACITY :

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The Quarrying capacity is designed basing on the following factors :

- Domestic requirement for blocks
- Possible Quarried reserve
- Quarrying condition and technics
- Common uses of equipments and machines for quarrying of dimension stones which are popular both in Vietnam and in the world
- Investment possibility
- Highest economic effectiveness

Based on the above mentioned factors, Quarrying capacity is designed at 3000 m3/year.

During the first initial two years, the quarrying line is operated not so smoothly and quarrying structures set-up is not so stable causing low production and market demand is still limited so that the capacity of the first and second years is 2000 m3/year. From the third year on-ward the quarry capacity will be 3000 m3/year.

IV.4. WORKING REGIME :

- Working regime is subject to the enacted state law :
 - 52 sunday days-off
 - 10 days holidays-days-off includes New year Festival

Besides, there are 55 days-off due to force majour condition such as stormy, heavy rain, typhoon. So total working days for one year is projected as 250 days.

- Two shifts per day, 7 hours/shift, one hour break and shift-over assignment
- 500 shifts per year

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- Productivity/shift 6 m3/shift
- Productivity in the first two years 4m3/shift

IV.5. DURATION OF QUARRYING OPERATION :

Basing on the known reserve, it is projected as follows .

- The duration of the quarrying operation is 13 years for block B2 of Chau Quang
- Up to 100 years in the block A1, based on colour and quality of marble presently attracted to the customers, the chosen first quarrying area is B1 block. However, in quarrying it is possible to quarry in other block to meet process market requirements, estimated of marble products into three sizes are as follows :

First class block - 20% (2.5x1.5x1.2m) Second class block - 30% ((1.5-2.0)x1.2x1.0m) Third class block - 50% ((1.0-1.5)x1.0x1.0m)

IV.6. CONSTRUCTION PLAN OF THE QUARRY :

Over-all construction is scheduled for 6 month, it includes : Office, houses, storages, yards, tailing, road building, site levelling for quarrying.

WORKING SCHEDULE

Table 3

No	Work item	Year										Total				
NO		0	1	2	3	4	5	6	7	8	9	1	1	1	1	IUCAI
1 2 3	Design and construc- tion Quarrying in blockB: Capacity of Quarrying (in 1000 m3)	-	-2	- 2	- 3	- 3	- 3	- 3	- 3	- 3	- 3	-3	- 3	- 3	- 3	

V. QUARRYING

I. QUARRYING METHODS :

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Based on the geological features such as gentle slopes of rock layers and the joint (cracks) systems which are rather developed in the area, the quarrying technology chosen for quarrying operation is air-compressive drilling which is followed by using hydraulic splitter in combination with manual splitting to shape the blocks at the elevation of 50-60m above the foot hill surface Buldozers are used to push the blocks along sliding mattress down to the foot of the hill, then move them to the yard where manual uethod can be used for shaping of the blocks into the square ones. Crane is used to load the blocks on to the truck to transport to relevant factories for processing or to the instructed ports for exportation of blocks.

The quarrying is developed by bench cutting from down port upward of each layer for the block B2, along the inclining of layers to reduce the expense on road making for transportation of the block inside of the quarry. The quarrying step is estimated at 5m high. Once a quarrying area is prepared the exploitation in the form of bench-cutting is conducted from underneath upwards following marble layers. Until the first inclining layer is finished, consecutive quarrying operation should be carried on down to the depth of 5m from the present surface of the Quaternary sediments.

Due consideration of drilling line should be done by quarryman counting the joint systems in order to increase product recovery and making it easier for block splitting. It is recommended that Slim-Bar drilling rig/89 or TB-610 in combination with Russian portable hammer PR-24 should be used to drill the holes along side of the stone block which are much bigger than the commercial dimension size. The dimension of these blocks are as follows :

L. 2.5m x H. 1.5m x W. 1.2m Where L; H; W; are whole figure

This work is followed by using hydraulic splitter in combination with routine tools to split big blocks then drilliny hammers are also used to split those blocks to form smaller blocks of commercial sizes. Classification of the blocks are based on the sizes and on the homogeneity properties of colour of marble. Then Bull-Hydrojack with dragging winch system or buldozers shall be used to move the blocks to the area within the operation scope of the crane and finally the blocks are lifted and put on the truck for transport to the storage premises. The shaping of these blocks could be done, if necessary. Quarrying line is conducted by the following steps as bellow :



Drilling parameters obtained during the drilling operation :

- Diameter of bore-hole : 30-35 mm

- Distance between the bore-holes : 100-150 mm

- Depth of the bore holes : 1.2-3m

V.2. QUARRYING PROGRESS :

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The most suitable quarrying system is to conduct the cutting of the benches along the layers of marble from the East to the West following the inclination of layer, starting from the lowest points up to the highest point of the same layer in order to push the cut blocks sliding down aiming at reducing of the cost of moving the products and waste in the quarry. Due to low recovery of the block the mining waste is of large volume which must be kept in the area next to the quarry for other purposes.

V.3. SALVAGE QUARRYING OF BOULDERS :

Although boulders are not of the main objectives of quarrying but during the course of road building, quarry site levelling boulders are also salvaged to recover the natural resource. The quarrying methods applied for exploitation of boulders are drilling with compressed air but there is no need to use full set of drilling machine such as hor-driller. Excavators in combination with drilling and hand splitting methods for the small boulders and in combination with hydrosplitter for the big boulders.

After manual splitting, buldozer is used to push the blocks to the area where the crane could be used to load the blocks on to lorries.

However, quarrying of the boulders is limited due to high production cost and high rate of the cracks causing low recovery of tiles from those blocks, the consequence is high production cost making the products less competitive.

V.4. TRANSPORT FACILITIES :

There are two road systems in the quarrying area.

- Temporary road : This road system is disappeared during quarrying process and it is located inside the boundary of quarry. Its length depends on position of quarrying site. Routine road : This road system is existing until the finish of quarrying operation and it lies out side the boundary of quarry. Its length is 150-200m. Length of constructed road for being able to come to primary quarrying area is 400m.

Distance from quarrying area to squaring site is 300-500m and the quarried blocks are transported by KAMAZ 12 tons truck on this road. Hired trucks air transporting the blocks from squaring area to Cua Lo port if for exporting (Distance of 150 km) or to cutting processing plants.

V.5. DUMPING AREA :

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Based on the following factors, dump is designed :

- Shortest distance for moving of the disposals
- Dump is minimum in area
- Sufficient capacity for disposal (wasted materials)
- There is no impact on the guarrying operation

- There is no negative impact on the environment of the surrounding communities.

In compliance with above specific factors, tailing site to be chosen near to the quarry boundary to the east (for the first stage). Until the last quarrying stare (down to 5m), on the spot dumping can be made for the disposals (dumped in-situ) in the already extracted area (for the second stage). Furthermore one grinding crusher can be placed to have the disposals crushed for building materials or the road paving to save to the natural resources.

- Dumping sizes :

For the fin	rst stage -	Width Length Depth	-	50m 200m 20m
For the sec	cond stage –	Width Length Depth		50m 200m 10m

V.6. WATER, POWER, COMPRESSIVE AIR SUPPLY :

- <u>Power supply</u> : Lower voltage station can be established from the available high voltage line (35KV) going over the quarrying area to run the equipment, machinery, workshop and living.

- <u>Water supply</u>: Water wells is to be drilled for quarrying operation and living accommodation, it will be conducted with using pumping machine system and fixed water pipe line.

- Diameter of wells : 270 mm

- Depth of well : 30m 40m
- Quantity of ATH-8 pump 1 set at the capacity 30m3/h
- Length of water pipe line 700-1000m



Water is pumped upward to a reservoir for supply to living and pumping machine is used for water supply to the quarrying operation. Drinking water must be analysed to keep the Sanitary standard for the above planned purpose.

- Compressive air supply : Mobile air compressor model PV-10 at the capacity 600m3/h is used for producing compressive air.

- + Productivity per shift : 6m3/shift
- + Norm of meters in depth for 1m3 production :
 - $25m/m3 \times 6m/shift = 150 m/shift$
- + Drilling rigs required :

PR-24L drilling hammer : 5 ; one for reservation Drilling system on rail : 1 unit of slim Bar/89 Air compressors : 2 PV-10

VI. QUARRYING EQUIPMENT

Equipments for quarrying operation should be selected properly and on the basis of the following principle :

- Quarrying capacity

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- Capacity of the requirements
- Chosen quarrying technics
- Possibility of equipment purchased in the domestic markets and import
- The equipment supported by UNIDO Project

- Quality and effectiveness in marble quarrying :

List of equipments/machine needed for Chau Cuong marble quarrying

Table 4

No	Specification	Made	Units	Quantit	Remark
1	Bulldozer	Russian	Unit	1	Bought
2	Compressor - PV 10	- do -	-	2	in VN
3	Hydraulic splitter flouspak 186	Italy	-	1	
4	Slim Bar drill	Italy	-	1	Import
5	Dragging winch 50/60T	-	-	1	-
6	Hydraulic jack bull	Italy	-	1	
7	Dumping truck	Russian	-	1	Import
8	Mobile crane 25T	Russian	-	1	-
9	Portable drilling hammer	-	-	5	-
10	Plug and feather	Vietnam	set	75	-
11	Excavator EO-3323	Russian	-	1	-
12	Processing machine such	Vietnam	-	1	Purchase
	as : grinder electric driller				in VN
13	Kamaz truck	Russian			
14	Manual splitter	Vietnam			

VII. ORGANIZATION AND PERSONNEL

The quarry Enterprise is assigned with the task to quarry block marble for selling to the domestic and foreign buyers. This Enterprise has its legal status working under the supervision of a manager and organizational structure is as follows :



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ORGANIZATION OF CHAU CUONG ENTERPRISE

Table 5

No	Position	Quantity	Remark
1	Staff section	<u>12</u>	
	Manager	1	
	Deputy Manager	1	
2	Administration and	<u>8</u>	
	Financial Section		
3	Technical section	<u>2</u>	
1	- Quarry man	1	
	- Mechanical & electrical	1	
	Working section	46	
4	Mechanical foreman	1	
5	Electrical pumping workers	2	
6	Worker for compressor	2	
ľ	mechanical worker		
17	Mechanic	3	
l a	Quarry foreman	2	
9	Drilling splitting workers	<u>21</u>	
10	Squaring workers	5	
111	Travelling crane driver	4	
12	Excavator bulldozer driver	4	
13	Truck driver	2	
	Total	58	
1			

VIII. ENVIRONMENT PROTECTION AND LABOUR SAFETY

The quarrying operation impacts not so much on the wild animals and flora in the area, because this life is not so flourish here. On the other hand, the quarrying site is licated far from the villages, so quarrying work does not impact on the local people's life and the wasts of the quarry does not cause any polution of water and agriculture.

To ensure safety for the workers and staff working in the quarry, the following principles in the labour safety should be kept :

- Labour safety rules must be formulated by the Enterprise. Subject to the current Law enacted by the Vietnamese Government.
- All the technician must instruct/remind workers, labourers to strictly observe the State Law on labour safety in the mining activities.
- Before entering to work for the Enterprise labour safety regulations must be introduced to the workers, and during quarry operation labour safety control shall be conducted regularly.
- Workers at the quarrying site must sufficiently equipped with labour safety clothes, boots shoes. glasses ...
- The quarrying area must be regularly watered and dust collected.

IX. FINANCIAL ANALYSIS

I. ESTIMATION OF OPERATING COST :

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Annual capacity of two initial years is 2000 m3 per year from 3rd year on it is 3000 m3 per year, so operating cost should be calculated for each basing on the designed capacity. Operating costs are divided into two groups.

<u>I Group</u> : It is including salary, wage, administration management, maintenance costs (The cost of this group are fixed and not depending on annual capacity) + Salary and wage cost :

Salary fund : 59 pers. x 12 months x 60 USD/month = 41,760 USD Social Insurance (17% of salary fund) : 41,760 USD x 17% Total salary cost 48,860 USD

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+ Maintenance cost :

For machinery equipment (6% of equipment value) 268,700 USD x 6% = 15,120 USD For construction project (3% of construction value) 57,640 USD x 3% = 1,730 USD

Total maintenance costs 17,850 USD

+ Administration and Management costs : (20% of total above costs)

66,710 USD x 20 = 13,340 USD

<u>II Group</u> : It is including costs of material spare part, fuel, power, exportation, etc. The costs of this group are depending on annual quarry capacity .

+ Cost of fuel and power : 46,860 USD (see Appendix 8) for single 1st and 2nd years : 46,860 USD x 67% = 31,240 USD

+ Cost of supplies and replacement spare part : 12,760 USD (see Appendix 9), for single 1st and 2nd years : 12,760 USD x 67 = 8,500 USD

+ Cost of exportation : 1000 m3 x 20 USD/m3 = 20,000 USD

There is not this cost in 1st and 2nd years.

II. ESTIMATION OF REVENUE :

- Revenue of 1st and 2nd years :
 2000 m3 x 120 USD/m3 = 240,000 USD
- Revenue of year from the 3rd on ward :
 2000 m3 x 120 USD/m3 = 240,000 USD (For domestic sale)
and
 1000 m3 x 150 USD/m3 = 150,000 USD (for export)

Total revenue : 390,000 USD

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II. ESTIMATION OF REVENUE :

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- Revenue of 1st and 2nd years : Sold product in domestic market + For first and second classes :1,000m3 x 150USD/m3 = 150,000 USD 2,000 m3 x 120 USD/m3 = 120,000 USD + For third classes : 270,0U0USD Total revenue : - Revenue of third year on ward : + For exported product (first class) : 600 m3 x 250 USD/m3 = 150,000 USD + For sold product in domestic market : 900 m3 x 150 USD/m3 = 135,000 USD (2nd class) 1,500 m3 x 120 USD/m3 = 180,000 USD (3rd class) Total revenue : 465,000 USD III. PAYMENT ON INTEREST OF LOAN : In first year : - For fixed capital : + Local capital : 208,340 USD x 6% = 12,500 USD + UNIDO capital : 118,000 USD x 3.6% = 4,250 USD _____ 16,750 USD Subtotal - For working capital : 43,920 USD x 24 = 10,540 USD ______ 27,290 USD TOTAL REPAYMENT In second year : - For fixed capital : + Local capital : 168,100 USD x 6% = 10,090 USD + UNIDO capital : 118,000 USD x 3.6% = 4,250 USD 14,340 USD TOTAL REPAYMENT In third year : - For fixed capital : = 4,530 USD + Local capital : 75,520 USD x 6**%** + UNIDO capital : 118,000 USD x 3.6% = 4,250 USD 8,780 USD Subtotal - For working capital : 14,630 USD x 24% = 3,510 USD 12,290 USD TOTAL REPAYMENT In fourth year :

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- For fixed capital : + UNIDO capital : 22,550 USD x 3,6% = 811 USD

No	Type of equipment	Unit	Quan- tity	Price USD	Amount USD	Remark
1	EO-3323 Excavator	Unit	1	40,000	40,000	Russian-Expo
2	T-130 Bulldozer	-	1	30,000	30,000	-do-
3	Flouspak-186 Hydrosplitter	-	1	9,200	9,200	Italy-exporte
4	TB-610 pneumatic drilling system	-	1	11,500	11,500	-do-
5	BULL Hydrojack	-	1	13,000	13,000	-do-
6	AB 50% ton Drum Winch Subtotal	-	1	14,000	14,000 117700	-do-

1.a : INVESTMENT COST OF EQUIPMENTS FINANCED BY UNIDO (TENTATIVE)

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1.b. INVESTMENT COST OF EQUIPMENT FINANCE BY VIETNAM FUND

No	Type of equipment	Unit	Quan- tity	Price USD	Amount USD	Remark
1	PV-10 compressor	Unit	2	9,000 1	B,000 D:	omestic bought
2	PR-24L Drilling hammer	-	5	120	600	-do-
3	Travelling crane 25 T	-	1	30,000	30,000	-do-
4	KAMAZ dump truck 12 Tons	-	1	25,000	25,000	-do-
5	Power station and line system	set	1	15,000	15,000	-do-
6	Grinder for	unit	1	1,000	1,000	-do-
7	ATH-8 nump	_	1	1.500	1.500	-do-
8	Electrical, gas	set	ī	2,000	2,000	-do-
	electrical driller					
9	Forge and accessories OFFICE	-	1	500	500	-do-
10	Vehicle Toyota-4WD	unit	1	25,000	25,000	-do-
11	Computer & printer	set	1	3,000	3,000	-do-
12	Communication	-	1	5,000	5,000	-do-
	system & other					
	orree edarbaelle					
	Subtotal				126600	

Total of 1.a and 1.b : 117,700 USD + 126,600 USD = 244,300 USD Contingency 10% : 24,400 USD . _____

TOTAL INVESTMENT CAPITAL 268,700 USD

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Table 7

No	Item of construction	Unit	Quantity	Price,USD	Amount, USI
1	Earth levelling of	m 3	2500	3	7,500
	quarrying site	km	0.4	30 000	12 000
3	Earth levelling of dump	m3	1000	3	3,000
4	Office house	m2	70	60	4,200
5	Living house for worker	-	150	50	7,500
6	Mechanical repair work- shop and supplies store	-	70	50	3,500
7	Garage and house for compressor	-	100	30	3,000
8	Store and squaring area	1000	n3 800	1,500	1,200
9	Drilling wells and pipe	set	1	5,000	5,000
10	Fuel storage (tank and fence)	Lts	10,000	0.2	2,000
11	Reservoir	m3	50	30	1,500
12	Canteen	m2	50	40	2,000
	Subtotal	l			52,400
	Contingency 10%				5,200
	TOTAL				57,600

COST OF FUEL AND POWER

Table 8

No	Type of equipment	Qtity of equip	Con- sumpt Norm per shift 1	Con- sumpt Qtity ofunit per year	Total qtity per year	Price USD/l	Amount USD
1	E0-3323 Excavator	1	120	30.000	30,00	0.25	7.500
$\frac{1}{2}$	T-130 Dozer	ī	100	25,000	25.000	0.25	16,250
3	DV-10 Compressor	2	70	35,000	70,000	0.25	17,500
4	Kamaz truck	1	40	20,000	10,000	0.25	2,500
5	Travelling crane	1	60	15,000	15,000	0.25	3,750
6	Light car Toyota	1	20	5,000	5,00	0.25	1,250
	Subtotal						38,750
	Lubricating and						1,940
	greasing oil 5%						
7	Power		308kw		77,00	0.08	6,170
	TOTAL	· .	per/d				46,860

COST OF M	ATERIAL AND	SPARE	PART
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Table 9

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No	Kind of spare part	Unit	Consumpt qtity/y	Price,USD	Amount, USI
1	Pressured air rubber hose	1	500	5	2,500
2	Drill steel rods length from 0.8-3.6m)	unit	100	12	1,200
3	Bits of all kind	- ·	500	5	2,500
4	Grinding stone for sharpener	-	100	7 ·	700
5	Forged plug and feather	set	75	25	1,880
6 7	Explosive material Stationery	kg	1800	1.1	1,980 2,000
	TOTAL				12,760

SUMMARY TABLE OF OPERATING COST

Table 10

No	Item of cost	Annual working cost, USD					
		For 1st&2nd year	From 3rd year on				
1	Total salary	48,860	48,860				
2	Maintenance and service	17,850	17,850				
3	Administration and Management	13,340	13,340				
4	Supplies and spare part	8,500 [.]	12,760				
5	Fuel and power	31,240	46,860				
6	Exportation	-	20,000				
	Subtotal	119,780	159,670				
	Contingency 10%	11,980	15,970				
	TOTAL	131,760	175.640				

ECONOMICAL EFFECT ANALYSIS OF INVESTMENT CAPITAL IN 10 OPERATING YEARS

. OF CHAU CUONG - NGHE AN MARBLE QUARRY

Capacity: 3000 m3/year (From 3rd year on) and 2000 m3/year (in two first year) Price: 120USD and 150 USD/m3 (For domestic sale) and 250 USD/m3 (for export;

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				_								_					
TTEN OF COST	1								YEAR								I ITO
	1 0	1	1	1	2	1	3 1	4 1	5	1	6	1	7 1	8 1	9 1	10	1
nfrastructure capital	1 57.640	-:-		÷		- ; ·	·	 !		·;		i-	!	i	·•		i-
achinery-Equipt. cap.	1 268.700	L		ł		I	1	1	L	1 13	34.350	L	1	1	1		1
otal Initial Invest.Cap	1 326.340	1		1		ł	1	1	L	1		1	ŧ	1	1		1
emand on working Cap.	1	1	43.920	1		1	14.630	1	L	1		1	1	1	1		L
utput, m3	L	1	2.000	1	2.000	1	3.000 1	3.0001	3.000	1	3.000	L	3.0001	3.0001	3.0001	3.000	1
evenue	t	L	270.000	ł	270.000	1	465.000 1	465.0001	465.000	1 40	65.000	L	465.0001	465.0001	465.0001	465.000	1
perating cost	1	L	131.760	1	131.760	ł	175.640	175.640	175.640	1 1	75.640	L	175.6401	175.6401	175.6401	175.640	11
evenue tax, 2%	1	1	5.400	1	5.400	ł	9.300 1	9.3001	9.300	1	9.300	L	9.3001	9.3001	9.3001	9.300	1
oyalty, 3%	1	1	8.100	1	8.100	1	13.950 1	13.950	13.950	1	13.950	L	13.950!	13.9501	13.9501	13.950	1
onst.depreciation, 10%	1	1	5.760	t	5.760	ł	5.760 1	5.760	5.760	1	5.760	L	5.7601	5.7601	5.7601	5.000	1
gt. depreciation, 20%	1	1	53.740	t	53.740	1	53.740 1	53.740	53.740	1 3	26.870	L	26.8701	26.8701	26.8701	26.870	1
otal depreciation	1	L	59.500	1	59.500	ł	59.500 1	59.500	59.500	1 3	32.630	1	32.6301	32.630!	32.6301	32.630	1
epayment on Interest of	iloan	1	27.290	1	14.340	1	12.290 1	8101	0	1		I	1	1	1		1
rofit before tax	1	1	37.950	t	50.900	1	194.320	205.8001	206.610	1 2	33.480	1	233.4801	233.4801	233.4801	233.620	1
rofit tax, 30%	1	1	11.390	1	15.270	1	58.300 !	61.760	61.980	1	70.040	1	70.0401	70.0401	70.0401	70.090	1
rofit after tax	1	1	26.560	1	35.630	I	136.020 !	144.0601	144.630	1 1	63.440	1	163.4401	163.4401	163.4401	163.530	1
dd back-depreciation	1	1	86.060	1	95.130	1	195.520 !	203.5601	204.130	1 1	96.070	Ł	196.0701	196.0701	196.0701	196.020	1
und of reserve	1	1	1.900	1	2.550	1	9.720 1	10.290	10.330	1	11.670	ł	11.670:	11.670!	11.6701	11.680	1
(5% of profit before ta	ci 🦾	1		ł		ł	1	I	l	1		L	1	1	. 1		1
et cash flow	1 (326.340) 1	40.340	1	92.580	1	170.970 !	193.270	193.800	1 1	50.050	Ł	184.400!	184.400!	184.4001	. 1.340	1
ccumulative cash flow	1 (326.340))!(286.100)	1	(193.520)	1 ((22.550)1	170,7201	364.520	1 4	14.570	t	598.9701	783.3701	967.7701	1152.110	1

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CONCLUSION AND PROPOSAL

According to the geological exploration results firm conclusion would be made that Chau Cuong marble is beautiful in colour which have attracted domestic and foreign consumers. Moreover, Chau Cuong marble is of large reserve, rather good blockage, favourable condition of quarrying and quarrying technics is not so complicated, on the other hand, the invested capital in quarrying operation is not so high, payback-period is four year short. Equipment/machinery is available partly from UNIDO assistance and part can be bought in Vietnam. It is confident that the investment for this project can bring about the following benefits :

- Financial contribution of remarkable amount to the state and local budgets and to develop local industry and the benefits for the investors.
- Better material supply to various factories where block marble is processed into the tiles and slab for domestic demand and export as well.
- Contribution to the development of quarry technology in Vietnam in general. Good blocks exploited from quarry can lower the production cost of tiles and slabs to make Nghe an marble products of high competitiveness.
- Creating more jobs for the local community.

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To execute this project feasibly, the following works should be conducted:

- 1. To get the mining licence for opening of quarry at the Chau Cuong area as soon as possible to produce marble blocks.
- 2. Topo-map must be compiled and quarry design must be done which would be approved by the competence authority.
- 3. Opening the quarry on the basic of mobilization of equipments, labour force, working capital sufficient for carrying-out quarrying operation in 1994.
- 4. To ensure consumption for block marble, the marketing opportunities should be investigated to have more and more foreign consumers as well as domestic for the products for maximum sale. It can create the basis for increasing annual production.
- 5. Development of cooperation with domestic companies which are capable in organizing, managing of quarrying work and good access to the market inside and outside Vietnam. The products can be sold at large amount, once the production cost is low and competitive including tiles produced at the factory of the Vinh city and block marble at the quarry.

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One of the most cooperative company is MIDECO which is belong the Ministry of Heavy Industry. The cooperation form would be as following :

A. FOR THE QUARRY :

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- I. MIDECO :MIDECO is responsible for :
 - 1. Organizing of quarrying operation, appointment of manager and technician staffs and running quarrying work.
 - 2. Marketing of quarry products.
 - 3. Providing working capital for quarry enterprise and additional equipments for quarry and part of building cost of infrastructure for the quarry.
- II. THE TECHNOLOGY AND ENVIRONMENT SERVICE : The Nghe an Province is responsible for :
- 1. Supply quarrying equipment which are available for the quarrying line including the UNIDO supplied equipments and part of over-all construction fund.
- 2. Provision of labour, workers, managing staff, one of which is the Vice Director of the quarrying enterprise.
- 3. To solve all the formalities for granting of land, natural resources and relation with local authorities, and
- 4. Being responsible mainly for application for Licence for establishment of joint-venture quarry enterprise.

After fulfilling all the financial obligations to the Government, profit sharing would be made as 50%/50% to each partner.

- B. COOPERATION WITH THE CONCRETE FACTORY AT THE VINH CITY : are as follows :
- MIDECO: 1 Contribution of working capital and part of equipments if there is a need to increase capacity to meet the demand of the orders contracted by the consumers.
 - 2. Provision of one Director (or one Vice Director) to manage the factory in term of production and consumption of the products, one accountant and one person to technical staff of the factory.

If MIDECO is in place of the Vice Director so the accountant is the chief one.

Profit sharing is based on the contributed assets and capital according to the contributing ratio of the two partners.

APPENDIX

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SPECILIZED EQUIPMENTS AND MACHINERIES IN CHAU CUONG - NGHE AN MARBLE QUARRY.

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PR-24L PORTABLE DRILLING HAMMER



SCHEMB OF PR -24L DRILLING HAMMER

1. Handle

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- 2. Pressure air pipe
- 3. Pressure air opening valve to Rotary rod
- 4. Air valve for blowing drilling dust
- 5. Cylinder
- 6. Bumpy reduction spring
- 7. Drilling rod keeper

TECHNICAL PROPERTIES OF AIR CONSUMED FR-24L DRILLING HAMMER

Weight, kg 24 Length, mm 610 Piston Diameter, mm 100 Moving Distance of piston, mm 35 Air pressure, At 4 - 6 Prequency, time per min. 3000 Max.rotary moment, kg cm 200 Air consumption M³/Min. 3 - 3.5 Drilling hole diametre mm 35 - 45 Outer diameter of rod mm 25 Drilling depth m 4.5

GRINDER FOR DRILLING RODS AND BITS



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GRINDERS

Antaina spend	anin Mall Unde
Pacamatic motor	2 HP
Cutting edge angle	110 -
Cutting radius	125 mm
Working pressure	6.0 bar
Air communition at 6 har	1,5 mJ/min
Disputer grinding wheel	150 mm
Fixed model weight	36 Kg
Portable model weight	27 Kg

FLOUSPAK 186 HYDROSPLITTER

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PLUG, FEATHER AND ITS WORKING SCHEME



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BULL HYDROJACK



lechnical characteristics

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Power pack Whithing pressume 700 bar. Pump with radial pictores Oil tank of 40 lifes. Sately valve at maximum pressure: Tyrhanic circuit closing tap. Pressure gauge in plycetine bath 0/1000 bar. Two lateral distributors for direct command of each jack. 1/4-3/8 screw juints for very high pressures in both directions. Jacks

Hydraulic cylinders with double effect. Stainless steel pistons with special cromed treatment. Guide ring limit switch Hydraulic seal for high pressures. Safety valve for low and high pressure. Working pressure 700 bar.

TB.610 AUTOMATIC DRILLING SYSTEM ON RAILS

TECHNICAL SPECIFICATIONS

Total weight 160 kgs Track weight only 70 kgs Trolley weight only 35 kgs Column weight only 50 kgs Control panel weight only 5 kgs Total air consumption 4500 Lts at 7 Bar. Start drilling with 2 Mts integral drill steel



1 1 1	I Total Costruction	I Total I I production I	1994
ITotal Fixed Investment Costs	1 326340.00	1 134350.00 1	326340.00
I Total Pre-Production Expenditures	1 0.00	1 0.00 1	0.00
IIncrease in Net Working Capital	1 0.00 1	1 63196.67 I I I	0.00
TOTAL INVESTMENT COSTS	1 326340.00	197546.67	326340.00
Foreign share (%)	1 0.00	1 0.00 1	0.00

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INVESTMENT COSTS - TOTAL US DOLLAR			
	1	1	
I I	1995 I	1996 I	1997
l1	11	1	
Total Fixed Investment Costs !	0.00 1	0.00 !	0.0
Total Pre-Production Expenditures !	0.00 1	0.00 i	0.0
Increase in Net Working Capital	46625.56 1	0.00 1	16571.1
L1	1	L	
TOTAL INVESTMENT COSTS !	46625.56 1	0.00 !	16571.1
Foreign share (%)	I	0.00 1	0.0
	0.00 1	0.00 1	0.

1 1998 I	1999 I	2000
0.00 1	0.00 !	134350.00
0.00 t	0.00 !	0.00
0.00 i	0.00 !	0.00
0.00 1	0.00 1	134350.00
0.00	0.00	0.00
	1998 1 1998 1 0.00 1 0.00 1 0.00 1 1 0.00 1 1 0.00 1	1 1998 1 0.00 0.00 1 0.00 0.00 1 0 0.00 1 0 0 0 0 0 0 0 0 0 0 0 0 0

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IINVESTMENT COSTS – TOTAL IUS DOLLAR				
	1 2001 I	l 2002 l	l 2003 l	2004
Total Fixed Investment Costs	0.00 1	0.00 1	1 0.00 1	0.00
I Total Pre-Production Expenditures I	0.00 1	0.00 1	0.00 1	0.00
Increase in Net Working Capital	1 00.0	0.00 1	0.00 1	0.00
TOTAL INVESTMENT COSTS	0.00 1	0.00 1	0.00 1	0.00
Foreign share (%)	! 	0.00 1	0.00 1	0.0

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· · · · · · · · · · · · · · · · · · ·	l Production l 1995	Production 1996	Production 1997
	l	ll	
Capacity utilization (%)	I 66.67	66.671	100.0
Raw materials	0.00	0.00 1	0.0
Factory supplies	8506.67	8506.67 1	12760.0
Utilities .	1 0.00	0.00 1	. 0.0
Energy	l 31240.00	31240.00 !	46860.0
Spare parts consumed	1 0.00	0.00 1	0.0
Repair, maintenance, material	17850.00	I 17850.00 I	17850.0
Royalties	8100.00	8100.00 1	13950.0
Labour	48860.00	48860.00 i	48860.0
Labour overhead costs (taxes etc.)	0.00	0.00 1	0.0
Factory overhead costs	11980.00	11980.00 1	15970.0
FACTORY COSTS	126536.67	126536.67	156250.0
Administrative costs	13340.00	13340.00	13340.0
OFERATING COSTS	139876.67	139876.67	169590.0
Depreciation	1 59500.00	اا 1 59500.00 1	59500.0
Financial cost	27290.00	14340.00 1	12290.0
TOTAL PRODUCTION COSTS	226666.67	213716.67	241380.0
Direct marketing costs	0.00	0.00	20000.0
COSTS OF PRODUCTS SOLD	226666.67	213716.67	261380.0
Foreign share (%)	0,00	0.00	0.0
Variable share (%)	21.11	22.39 1	28.1

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	Production	Production	Product ion
	1 1998	1 1999 1	2000
	1	1 1	2000
Capacity utilization (%)	1 100.00	1 100.00 1	100.00
	1	1 1	
Raw materials	1 0.00	1 0.00 1	0.00
Factory supplies	1 12760.00	1 12760.00 1	12760.00
Utilities	1 0.00	1 0.00 1	0.00
Energy	46860.00	1 46860.00 1	46860.00
Spare parts consumed	1 0.00	1 0.00 1	0.00
Repair, maintenance, material	17850.00	17850.00 !	17850.00
Royalties	! 13950.00	1 13950.00 1	13950.00
Labour	1 48860.00	1 48860.00 1	48860.00
Labour overhead costs (taxes etc.)	1 0.00	1 0.00 1	0.00
Factory overhead costs	15970.00	I 15970.00 I	15970.00
	I	۱۱	
FACTORY COSTS	1 156250.00	1 156250.00 1	156250.00
	1	!1	
Administrative costs	1 13340.00	13340.00 1	13340.00
	!	11	
OPERATING COSTS	169590.00	1 169590.00 1	169590.00
	!	۱۱	
Depreciation	1 59500.00	I 59500.00 I	32630.00
Financial cost	1 0.00	I 0.00 I	0.00
	1	۱۱	
TOTAL PRODUCTION COSTS	1 229090.00	1 229090.00 1	202220.00
l	!	11	
Direct marketing costs	1 20000.00	1 20000.00 1	20000.00
	1	11	
COSTS OF PRODUCTS SOLD	1 249090.00	1 249090.00 1	222220.00
	11	۱۱	
Foreign share (%)	! 0.00	1 0.00 1	0.00
Variable share (%)	29.54	1 29.54 1	33.11

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1	Production	Production	Production
1	2001	l 2002 l	2003
1		اا	
Capacity utilization (%)	100.00	l 100.00 l	100.00
I	0.00		0_00
Raw wateriald	12760 00		12760.00
ntilition i	0.00		12/00.00
	46860.00		46960.00
snergy s	40000.00		40000.00
Renair, maintenance, material	17850 00	17850 00 I	17850 00
Royalties I	13950.00	13950.00 I	13950.00
Labour !	48860-00	48860.00 1	48860.00
Labour overhead costs (taxes etc.) !	0.00		0.00
Factory overhead costs	15970.00	1 15970.00 1	15970.00
1		11	
FACTORY COSTS	156250.00	156250.00 1	156250.00
Administrative costs	13340.00	13340.00 1	13340.00
OPERATING COSTS	169590.00	169590.00	169590.00
I Depreciation I	32630.00	11 132630.00 1	32630.00
Financial cost	0.00	0.00 1	0.00
TOTAL PRODUCTION COSTS	202220.00	202220.00	202220.00
Direct marketing costs	20000.00	20000.00	20000.00
COSTS OF PRODUCTS SOLD	222220.00	1 222220.00 I	222220.00
Foreign share (%)	0.00	II I0.00_I	0.00
Variable share (%)	33.11	33.11 /	33.11

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	I Product
	l 2004
ICapacity utilization (%)	l l100.
1	1
IRaw materials	1 0.
Factory supplies	t 12760.
lUtilities	1 O.
lEnergy	I 46860.
ISpare parts consumed	I 0.
Repair, maintenance, material	1 17850.
Royalties	I 13950.
Labour	I 48860.
Labour overhead costs (taxes etc.)	t 0.
Factory overhead costs	1 15970.
l	!1
IFACTORY COSTS	l 156250.
Administrative costs	13340.
IOPERATING COSTS	169590.
IDepreciation	1 32670.
Ifinancial cost	10.
I TOTAL PRODUCTION COSTS	202260
IDirect marketing costs	1 20000.
ICOSTS OF PRODUCTS SOLD	222260.
: !Foreign share (%)	i
Variable share (%)	! 33.

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1	l 1994	l 1995	I 1996
1		l	11
ITOTAL CASH INFLOW	1 0.00	270000.00	1 270000
Inflow operation	1 0.00	270000.00	1 270000
lOther income	1 0.00	0.00	1 O
I TOTAL CASH CUTFLOW	1 326340.00	199502.23	1 156761
Increase in fixed assets	1 326340.00	0.00	1 0
IIncrease in net working capital	1 0.00	46625.56	1 O
10perating costs	1 0.00	139876.67	! 139876
Harketing costs	1 0.00	0.00	1 0
lIncome (corporate) tax	1 0.00	13000.00	I 16885
INET CASH FLOW	1 -326340.00	70497.77	1 113238
ICUMULATIVE NET CAHFLOW	1 -326340.00	-255842.23	! -142603
I INet present value	1 -326340.00	64088.88	93585
!Cumulative net present value	1 -326340.00	-262251.12	! -168665 •
INET PRESENT VALUE	iat 10.00 %	677995.44	 !
IINTERNAL RATE OF RETURN	1 40.81 N	t i i i i i i i i i i i i i i i i i i i	1
INORMAL PAYBACK	lat 0.00 🕏	1 4	1
IDYNAMIC PAYBACK	lat 10.00	1 5	1

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E	l 1997 l	1998 1	1999
TOTAL CASH INFLOW	11 1465000.00_1	465000.00 1	465000.
Inflow operation	11 1111111_	465000.00 1	465000.
lOther income	1 0.00 1	0.00 1	0.
TOTAL CASH OUTFLOW	1I 1 267247.11 I	254363.00	254363.
I Increase in fixed assets	11 1 0.00 1	0.00	0.
Increase in net working capital	1 16571.11 1	0.00 1	0.
Operating costs	1 169590.00 1	169590.00 !	169590.
Marketing costs	1 20000.00 1	20000.00 1	20000.
Income (corporate) tax	1 61086.00 1	64773.00 !	64773.
INET CASH FLOW	1 197752.89	210637.00	210637.
ICUMULATIVE NET CAHFLOW	1 55148.99 1	265785.99	476422.
Net present value	1 148574.67	143867.91	130789.
Cumulative net present value	1 -20091.05 1	123776.86 !	254565
INET PRESENT VALUE	- ¹ 1	i	
INTERNAL RATE OF RETURN	1 1	1	
INORMAL PAYBACK	1 1	1	

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1	1 2000 1	2001 I	2002
I ITOTAL CASH INFLOW	_11 1 465000.00 1	465000.00 1	465000.
l	_ll	1	
Inflow operation	1 465000.00 1	465000.00 1	465000.
lOther income	1 0.00 1	0.00 1	0.
TOTAL CASH OUTFLOW	1 396774.00 1	262424.00 1	262424.
Increase in fixed assets	_11 ! 134350.00 !	I	0.
Increase in net working capital	1 0.00 1	0.00 1	0.
Operating costs	1 169590.00 1	169590.00 1	169590.
Marketing costs	1 20000.00 1	20000.00 1	20000.
lincome (corporate) tax	1 72834.00 1	72834.00 1	72834.
IINET CASH FLOW	_11 1 68226.00 1	202576.00	202576.
CUMULATIVE NET CAHFLOW	1 544648.99	747224.99 1	949800.
Inet present value		103953.52	94503.
Cumulative net present value	1 293077.67	397031.19	491534.
INET PRESENT VALUE	-ii	I	<u> </u>
INTERNAL RATE OF RETURN	1 1	1	
INORMAL PAYBACK	1 1	1	
IDYNAMIC PAYBACK	1 1	1	
INPV RATIO	1 1	1	
1	1 1	1	

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	1 2003	1 2004	IScrap 2005
TOTAL CASH INFLOW	465000.00	465000.00	1 64032.57
Inflow operation	1 465000.00	465000.00	1 0.00
Other income	1 0.00	0.00	1 64032.57
TOTAL CASH OUTFLOW	1 262424.00	262424.00	1 0.00
Increase in fixed assets	1 0.00	0.00	1 0.00
Increase in net working capital	1 0.00	0.00	1 0.00
Operating costs	1 169590.00	169590.00	1 0.00
Marketing costs	1 20000.00	20000.00	1 0.00
Income (corporate) tax	1 72834.00	72822.00	1 0.00
NET CASH FLOW	1 202576.00	202588.00	1 64032.57
CUMULATIVE NET CAMPLOW	! 1152376.99	1354964.99	! 1418985.56
Net present value	1 85912.00	78106.44	1 22443.03
Cumulative net present value	1 577446.39	655552.83	1 677995.86 ,
NET PRESENT VALUE		۲ 	1
INTERNAL RATE OF RETURN	1	l	1
NORMAL PAYBACK	1	l	i
DYNAMIC PAYBACK	1	L	1
NPV RATIO	1	ł	1
	1	1	1

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1	I Production	Production	Production	Production
1	I 1995	1996	1997	1998
IIStock brought forward	1 0.00	0.00	0.00	0.00
IQuantity produced	1 2000.00	2000.00	3000.00	3000.00
IStock carried forward	E 0.00	0.00	0.00	0.00
IQuantity sold	1 2000.00	20000.00	3000.00	3000.00
lGross unit price (average)	1 137.70	137.70	158.10	158.10
IIGross sales revenue	1 275400.00	275400.00	474300.00	474300.00
Less sales tax	1 5400.00	5400.00	9300.00	9300.00
I INet sales revenue	1 270000.00	270000.00	465000.00	465000.00
!Subsidy	1 0.00 1	0.00	0.00	0.00
I SALES REVENUE	1 270000.00	270000.00	465000.00	465000.00
I IForeign share (%)	I 0.00_I	0.00	0.00	0.00

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	I Production	I Production	Production	Productio
	1 1999	1 2000	2001	2002
L	I	t!	I!	l
Stock brought forward	1 0.00	t 0.00	0.00	0.0
Quantity produced	1 3000.00	1 3000.00	3000.00	3000.0
Stock carried forward	1 0.00	1 0.00	0.00	0.0
Quantily sold	1 3000.00	1 3000.00	3000.00	3000.0
Gross unit price (average)	1 158.10	158.10	158.10	158.1
Gross sales revenue	1 474300.00	474300.00	474300.00	474300.0
Less sales tax	1 9300.00	1 9300.00	9300.00	9300.0
Net sales revenue	1 465000.00	465000.00	465000.00	465000.0
Subsidy	1 0.00	I 0.00 I	0.00	0.0
	I	l!	ll	
SALES REVENUE	1 465000.00	465000.00	465000.00	465000
······································	! !	ll	ll	

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IPRODUCTION AND SALES PROGRAMME - TOTAL IUS DOLLAR

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	1 Production	I Production
!	! 2003	1 2004
	1	t
Stock brought forward	1 0.00	1 0.00
Quantity produced	1 3000.00	1 3000.00
Stock carried forward	t 0.00	0.00
Quantily sold	1 3000.00	1 3000.00
Gross unit price (average)	1 158.10	158.10
Gross sales revenue	1 474300.00	474300.00
Less sales tax	1 9300.00	9300.00
Net sales revenue	1 465000.00	1 1 465000.00
Subsidy	1 0.00	1 0.00
SALES REVENUE	1 465000.00	1 465000.00
Foreign share (%)	1 0.00	0.00

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1	1 1994 1	1995 I	1996
I I TOTAL ASSETS	ll 1 326340.00 l	356673.33 1	367254.99
[ll	l	159914 90
Total fired agents not of depreciation	1 326340 00 1	266840 00 I	137719.73
locumulated losses brought forward		200040.00 1	207340.00
lloss in ourrest war			0.00
toos in currenc year		0.00 1	0.00
TOTAL LIABILITIES	1 326340.00 I	356673.33 1	367254.9
L	1 1	1	
Total current liabilities	1 0.00 1	0.00 1	0.0
Total long term loans	1 0.00 1	0.00 1	0.0
ITotal Equity	1 326340.00 1	326340.00 1	326340.0
Reserves, retained profit brought forward	I 0.00 I	0.00 1	1516.6
INet profit after tax	I 0.00 I	30333.33 1	39398.3
I .	1 1	1	
Net worth	1 326340.00 1	327856.66 1	329826.5
Ratios (%)	1 1	1	
Equity / total liabilities	I 100.00 I	91.50 I	88.8
Net worth / total liabilities	I 100.00 I	91.92 I	89.8
Long-term debt / net worth	I 0.00 I	0.00 1	0.0
Current assets / current liabilities	I 0.00 I	0.00 1	0.0
!		1	

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PROJECTED BALANCE SHEET			
US DOLLAR			
•	1 1997 1	1998 1	1999
	!!	!	
TUTAL ASSETS	472360.57	488090.27 1	495647.12
Total current aggets	1 324520 57 1	399750 27 1	466907 12
Total fixed assets, net of depreciation	1 147840.00 1	88340 00 1	28840 00
Accumulated losses brought forward	1 0.00 1	0.00 1	0.00
Loss in current year	1 0.00 1	0.00 1	0.00
	۱۱	1	
TOTAL LIABILITIES	1 472360.57 1	488090.27 1	495647.12
Total current liabilities		<u>1</u> 1	0.00
Total long term loans	1 0.00 1	0.00 1	0.00
Total Equity	1 326340.00 1	326340.00 1	326340.00
Reserves, retained profit brought forward	1 3486.57 1	10613.27 1	18170.12
Net profit after tax	1 142534.00 1	151137.00 1	151137.00
Net worth	1 336953.27	314510 12 1	352066 97
Ratios (%)	l 1	1	552000.97
Equity / total liabilities	I 69.09 I	66,86 1	65.84
Net worth / total liabilities	1 71.33 1	70.58 1	71.03
Long-term debt / net worth	0.00 1	0.00 1	0.00
Current assets / current liabilities	1 0.00 i 1 i	0.00 i i	0.00

IPROJECTED BALANCE SHEET IUS DOLLAR

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	2000 1	2001	2002
		1001	2002
TOTAL ASSETS	522012.97 1	53051927 1	539007.5
	۱ <u></u> ۱	I_	
Total current assets	1 397452.97 1	432580.27 1	473707.5
Total fixed assets, net of depreciation	I 130560.00 I	97930.00 l	65300.0
Accumulated losses brought forward	I 0.00 I	0.00 1	0.0
Loss in current year	0.00 1	0.00 1	0.0
TOTAL LIABILITIES	II I522012.97_I	530510,27 k	539007.5
	l1	1	
Total current liabilities	0.00 1	0.00 1	0.0
Total long term loans	1 0.00 1	0.00 !	0.0
Total Equity	1 326340.00 1	326340.00 I	326340.0
Reserves, retained profit brought forward	1 25726.97 1	34224.27 !	42721.5
Net profit after tax	169946.00 1	169946.00 !	169946.0
Net worth	1 360564.27 1	369061.57	377558.8
Ratios (%)	1 1	1	
Equity / total liabilities	62.52 1	61.51 1	60.5
Net worth / total liabilities	69.07 1	69.57 1	70.0
Long-term debt / net worth	E 0.00 I	0.00 1	0.0
Current assets / current liabisities		0.00 1	0.0
		0.00 1	0.0

IPROJECTED BALANCE SHEET		
IUS DOLLAR		
1	2003 I	2004
11	1	
ITOTAL ASSETS	547504.87 1	555974.17
ITotal current assets	514834.87	555974.17
!Total fixed assets, net of depreciation	32670.00 1	0.00
!Accumulated losses brought forward !	0.00 1	0.00
iLoss in current year	0.00 1	0.00
TOTAL LIABILITIES	547504.87	555974.17
ITotal current liabilities	0.00	0.00
ITotal long term loans	0.00 1	0.00
ITotal Equity	326340.00 1	326340.00
IReserves, retained profit brought forward I	51218.87 !	59716.17
Net profit after tax	169946.00 1	169918.00
INet worth	386056.17	394552.07
IRatios (%)	1	
<pre>!Equity / total liabilities</pre>	59.61 1	58.70
INet worth / total liabilities	70.51 1	70.97
ILong-term debt / net worth	0.00 1	0.00
ICurrent assets / current liabisities	0.00 [0.00

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	Production	Production !	Production
1	! 1995 I	1996 !	1997
Cales		1	465000 00
Sales revenue	A7946 67 1	47846 67 1	73570.00
PEDB AUTIONIC CODED		47040.07 i	/33/0.00
VARIABLE MARGIN	222453.33 1	222153.33 1	391430.00
in % of sales revenue	62.28 I	82.28 1	84.18
Less fixed costs	151530.00	151530.00 1	175520.00
OPERATIONAL MARGIN	1 70623.33 1	70623.33 1	215910.00
in % of sales revenue	26.16 1	26.16 1	46.43
Interest on securities	۱۱ ۱	ا ۱	- <u></u>
Financial costs	27290.00	14340.001	12290.00
GROSS PROFIT FROM OPERATIONS	43333.33	56283.33 1	203620.00
In % of sales revenue		20.85 !	43.79
Extraordinary income	0.001	0.001	0.00
Extraordinary loss	.001	0.001	0.00
Depreciation allowances		0.001	0.00
GROSS PROFIT	43333.33	56283.33 1	203620.0
Investment allowances	0.00	0.00 1	0.00
TAXABLE PROFIT	43333.33 1	56283.33 1	.93620.00
Income (corporate) tax	13000.00	16885.00 1	61086.00
NET PROFIT	30333.33 1	39398.33 1	142534.00
In % of sales revenue	11.23	14.59 !	30.65
Dividends payable	28816.67	37428.42 !	135407.30
RETAINED PROFIT	1516.66	1969.91	7126.70
Ratios (%)	·i		·
Net profit / equity capital	1 0.00 I	0.00 1	0.00
Net profit / Net worth	9.25 1	11.95	42.30
Net profit + interest / investment	65.061	84.50 1	225.54

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INET INCOME STATEMENT			t
IUSD DOLLAR			1
I			I
3	Production	Production	Production
1	1998	1999	I 2000 I
1	۱۱		۱۱
iSales revenue	465000.00	465000.00	465000.00 1
Less variable costs	1 73570.00	73570.00	73570.00 1
!i	اا		اا
IVARIABLE MARGIN	i 391430.00 l	319430.00	391430.00
lin % of sales revenue	84.18	84.18	84.18
1	l!		اا
Less fixed costs	175520.00	175520.00	148650.00
!	l!	l	۱۲
IOPERATIONAL MARGIN	215910.00	215910.00	242780.00 1
lin % of salea revenue	46.43	46.43	52.21 !
l	l!	·	۱۱
Interest on securities	0.00	0.00	0.00
Financial costs	0.00	0.00	0.00 1
1	۱ <u></u> ۱		۱ <u></u> ۱
IGROSS PROFIT FROM OPERATIONS	215910.00	215910.00	242780.00 !
IIn V of sales revenue	46.43	46.43	52.21
1	l!	!	۱ <u></u> ۱
Extraordinary income	0.00	0.00	0.00 !
Extraordinary loss	0.00	0.00	0.00
Depreciation allowances	0.00	0.00	0.00
	215910 00	215010 00	·
IGROSS PROFIL	1 215910.00	212310.00	
Investment allowances	0.00	0.00	·
	215910 00	215910 00	242780 00 1
			242705.00
Income (corporate) tax	64733.00	64733.00	72834-00
I	l 01/00/00		1 1
INET PROFIT	151137.00	151137.00	169946.00
In § of sales revenue	32.50	32.50	36.55 2
1	1	1	l !
Dividends payable	143580.15	143580.15	161448.70 !
I	! :	L .	I I
IRETAINED PROFIT	7555.85	7556.85	8497.30
t	l	l	t I
Ratios (%)	1		ı ———
Net profit / equity capital		0.00	ı 0.00 i
Net profit / Net worth	43.87	42.93	I 47.13 I
<pre>INet profit + interest / investment</pre>	239.15	239.15	86.03 1
1	I		۱ <u> </u>

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Inconcerning 1000000000000000000000000000000000000		I Production	Freduction	Production
Sales revenue 465000.00 465000.00 465000.00 Less variable costs 73570.00 73570.00 73570.00 VARIABLE MARGIN 391430.00 319430.00 391430.00 in t of sales revenue 84.18 84.18 84.18 Less fixed costs 148650.00 148650.00 148650.00 OPERATIONAL MARGIN 242780.00 242780.00 242780.00 Interest on securities 0.00 0.00 0.00 0.00 Financial costs 0.00 0.00 0.00 0.00 0.00 GROSS PROFIT FROM OPERATIONS 242780.00 242780.00 242780.00 242780.00 Interest on alcownee 0.00 0.00 0.00 0.00 0.00 Int of sales revenue 52.21 52.21 52.21 52.21 Extraordinary income 0.00 0.00 0.00 0.00 Depreciation allowances 0.00 0.00 0.00 0.00 Investment allowances 0.00 242780.00 242780.00 242780.00 Income (corporate) tax 72834.00 72834.00 72834.00		1 2001	2002	2003
Sales revenue 465000.00 1 465000.00 1 Less variable costs 73570.00 1 73570.00 1 VARIABLE MARGIN 391430.00 1 319430.00 1 319430.00 1 in % of sales revenue 84.18 1 84.18 1 84.18 1 Less fixed costs 148650.00 1 148650.00 1 148650.00 1 OPERATIONAL MARGIN 242780.00 1 242780.00 1 242780.00 1 Interest on securities 0.00 1 0.00 1 0.00 1 Financial costs 0.00 1 0.00 1 0.00 1 GROSS PROFIT FROM OPERATIONS 242780.00 1 242780.00 1 242780.00 1 In % of sales revenue 52.21 1 52.21 1 52.21 1 Extraordinary income 0.00 1 0.00 1 0.00 1 Extraordinary loss 0.00 1 0.00 1 0.00 1 Investment allowances 0.00 1 0.00 1 0.00 1 Income (corporate) tax 72834.00 1 72834.00 1 72834.00 1 In % of sales revenue 36.55 1 36.55 1 36.55 1 Income (corporate) tax 72834.00 1 72834.00 1 72834.00 1 N27 PROFIT		1 1001		
Less variable costs 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 73570.00 1 391430.00 1 3914	Sales revenue	465000.00	465000.00	465000.00
VARIABLE MARGIN 391430.00 319430.00 391430.00 in % of sales revenue 84.18 84.18 84.1 Less fixed costs 148650.00 148650.00 148650.00 OPERATIONAL MARGIN 242780.00 242780.00 242780.00 In % of sales revenue 52.21 52.21 52.21 Interest on securities 0.00 0.00 0.00 Financial costs 0.00 0.00 0.00 GROSS PROFIT FROH OPERATIONS 242780.00 242780.00 242780.00 In % of sales revenue 52.21 52.21 52.21 Extraordinary income 0.00 0.00 0.00 Extraordinary loss 0.00 0.00 0.00 Depreciation allowances 0.00 0.00 0.00 Investment allowances 0.00 0.00 242780.00 242780.00 Income (corporate) tax 72834.00 72834.00 72834.00 NET PROFIT 1619946.00 169946.00 161448.70 In % of sales revenue 36.55 36.55 36.55 Dividends payable 161448.70	Less variable costs	1 73570.00	73570.00	73570.0
VARIABLE MARGIN 1 391430.00 1 48650.00 1 48650.00 1 48650.00 1 48650.00 1 48650.00 1 48650.00 1 48650.00 1 48650.00 1 48650.00 1 48650.00 1 242780.00 1 242780.00 1 242780.00 0.00 </td <td></td> <td>1 1</td> <td> </td> <td>l</td>		1 1		l
in % of sales revenue 84.18 84.18 84.18 84.18 Less fixed costs 148650.00 148650.00 148650.00 242780.00 OPERATIONAL MARGIN 242780.00 242780.00 242780.00 242780.00 In % of sales revenue 52.21 52.21 52.21 52.21 Interest on securities 0.00 0.00 0.00 0.00 Financial costs 0.00 0.00 0.00 242780.00 242780.00 GROSS PROFIT FROM OPERATIONS 242780.00 242780.00 242780.00 242780.00 In % of sales revenue 52.21 52.21 52.21 52.22 Extraordinary income 0.00 0.00 0.00 0.00 Depreciation allowances 0.00 0.00 0.00 0.00 Investment allowances 0.00 242780.00 242780.00 242780.00 Income (corporate) tax 72834.00 72834.00 72834.00 72834.00 Income (corporate) tax 161946.00 169946.00 169946.00 169946.00 Income (corporate) tax 72834.00 72834.00 72834.00 <td>VARIABLE MARGIN</td> <td>1 391430.00</td> <td>319430.00</td> <td>391430.0</td>	VARIABLE MARGIN	1 391430.00	319430.00	391430.0
Less fixed costs 148650.00 148650.00 148650.00 OPERATIONAL MARGIN 242780.00 242780.00 242780.00 242780.00 Interest on securities 0.00 0.00 0.00 0.00 Financial costs 0.00 0.00 0.00 0.00 GROSS PROFIT FROM OPERATIONS 242780.00 242780.00 242780.00 In % of sales revenue 52.21 52.21 52.21 Extraordinary income 0.00 0.00 0.00 Extraordinary loss 0.00 0.00 0.00 Depreciation allowances 0.00 242780.00 242780.00 Investment allowances 0.00 0.00 0.00 Income (corporate) tax 72834.00 72834.00 72834.00 NZT PROFIT 169946.00 169946.00 169946.00 Investment allowances 36.55 36.55 36.55 Dividends payable 161448.70 161448.70 161448.70 ReTAINED PROFIT 169946.00 169946.00 169946.00 Income (torporate) tax 72834.00 0.00 0.0	in % of sales revenue	! 84.18	84.18	84.1
Less fixed costs 148650.00 ! 148650.00 ! 148650.00 ! OPERATIONAL MARGIN 242780.00 ! 242780.00 ! 242780.00 ! Interest on securities 0.00 ! 0.00 ! 0.00 ! Financial costs 0.00 ! 0.00 ! 0.00 ! GROSS PROFIT FROM OPERATIONS 242780.00 ! 242780.00 ! 242780.00 ! Interest on securities 0.00 ! 0.00 ! 0.00 ! GROSS PROFIT FROM OPERATIONS 242780.00 ! 242780.00 ! 242780.00 ! Int of sales revenue 52.21 ! 52.21 ! 52.21 ! Extraordinary income 0.00 ! 0.00 ! 0.00 ! Extraordinary loss 0.00 ! 0.00 ! 0.00 ! GROSS PROFIT 242780.00 ! 242780.00 ! 242780.00 ! GROSS PROFIT 242780.00 ! 242780.00 ! 242780.00 ! Investment allowances 0.00 ! 0.00 ! 0.00 ! Income (corporate) tax 72834.00 ! 72834.00 ! 72834.00 ! Income (corporate) tax 161946.00 ! 169946.00 ! 169946.00 ! Int of sales revenue 36.55 ! 36.55 ! 36		l!	ll	l
OPERATIONAL MARGIN 242780.00 242780.00 242780.00 242780.00 242780.00 242780.00 242780.00 242780.00 242780.00 242780.00 0.00 Interest on securities 0.00 0.00 0.00 0.00 0.00 0.00 Financial costs 0.00 242780.00 242780.00 242780.00 242780.00 0.00 GROSS PROFIT FROM OPERATIONS 242780.00 242780.00 242780.00 242780.00 242780.00 Extraordinary income 0.00 0.00 0.00 0.00 0.00 Extraordinary loss 0.00 0.00 0.00 0.00 0.00 Depreciation allowances 0.00 0.00 0.00 0.00 0.00 Investment allowances 0.00 242780.00 242780.00 242780.00 242780.00 Income (corporate) tax 72834.00 72834.00 72834.00 72834.00 72834.00 72834.00 169946.00 In % of sales revenue 36.55 36.55 36.55 36.55 36.55 36.55 36.55 Dividends payable 161448.70 161448.7	Less fixed costs	1 148650.00	148650.00	148650.0
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Extraordinary income 0.00 0.00 0.00 Extraordinary loss 0.00 0.00 0.00 Depreciation allowances 0.00 0.00 0.00 GROSS PROFIT 1242780.00 242780.00 242780.00 Investment allowances 0.00 0.00 0.00 Investment allowances 0.00 0.00 0.00 Income (corporate) tax 72834.00 72834.00 72834.00 NET PROFIT 169946.00 169946.00 169946.00 In to of sales revenue 36.55 36.55 36.55 Dividends payable 161448.70 161448.70 161448.70 RETAINED PROFIT 8497.30 8497.30 8497.30 Ratios (%) 1 1 1 1 Net profit / equity capital 0.00 0.00 0.0 0.0 Net profit / Net worth 46.01 45.01 44.0	In & of sales revenue	52.21	52.21	52.2
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Income (corporate) tax Image: 1 mage: 1	TAXABLE PROFIT	242780.00	242780.00	242780.0
Income (corporate) tax 1 72834.00 1 72834.00 1 72834.00 1 NET PROFIT 1 169946.00 1 169946.00 1 169946.00 1 In % of sales revenue 1 36.55 1 36.55 1 36.55 1 In % of sales revenue 1 161448.70 1 161448.70 1 161448.70 1 Dividends payable 1 161448.70 1 161448.70 1 161448.70 1 RETAINED PROFIT 1 8497.30 1 8497.30 1 8497.3 Ratios (%) 1 1 1 1 Net profit / equity capital 1 0.00 1 0.00 1 0.0 Net profit / Net worth 1 46.01 1 45.01 1 44.0 Net profit + interest / investment 86.03 1 86.03 1 86.03 1		1	1	l
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NET PROFIT 1 169946.00 ! 169946.00 ! 169946.00 ! In % of sales revenue 1 36.55 ! 36.55 ! 36.55 ! Dividends payable ! 161448.70 ! 161448.70 ! 161448.70 ! RETAINED PROFIT ! 8497.30 ! 8497.30 ! 8497.3 ! Ratios (%) ! ! ! ! Net profit / equity capital ! 0.00 ! 0.00 ! 0.00 ! Net profit / Net worth ! 46.01 ! 45.01 ! 44.0	· · · · · · · · · · · · · · · · · · ·	1i	ا ا	l
In % of sales revenue i 36.55 ! 36.55 ! 36.55 ! Dividends payable ! 161448.70 ! 161448.70 ! 161448.70 ! Dividends payable ! 161448.70 ! 161448.70 ! 161448.70 ! RETAINED PROFIT ! 8497.30 ! 8497.30 ! 8497.30 ! Ratios (%) ! ! ! ! Net profit / equity capital ! 0.00 ! 0.00 ! 0.00 ! Net profit / Net worth ! 46.01 ! 45.01 ! 44.0 Net profit + interest / investment ! 86.03 ! 86.03 ! 86.03 !	NET PROFIT	1 169946.00	169946.00	169946.0
Dividends payable 1 161448.70 161448.70 161448.70 RETAINED PROFIT 1 8497.30 1 8497.30 1 Ratios (%) 1 1 1 1 1 Net profit / equity capital 1 0.00 1 0.00 1 0.00 Net profit / Net worth 1 46.01 45.01 44.0 Net profit + interest / investment 86.03 85.03 86.03	In % of sales revenue	1 36.55	36.55	36.5
I I I RETAINED PROFIT I 8497.30 I Ratios (%) I I Invet profit / equity capital I 0.00 I Net profit / Net worth I 46.01 I Vet profit + interest / investment 86.03 I 85.03 I	Dividends payable	1 161448.70	161448.70	161448.7
I I I Ratios (%) I I Net profit / equity capital I 0.00 I Net profit / Net worth I 46.01 I Net profit + interest / investment I 86.03 I 85.03 I	RETAINED PROFIT	8497.30	8497.30	8497.3
INALLOS (s) I I I INet profit / equity capital I 0.00 I 0.00 I 0.0 INet profit / Net worth I 46.01 I 45.01 I 44.0 INet profit + interest / investment I 86.03 I 85.03 I 86.0	Dation (b)	1		}
Net profit / Net worth i 46.01 i 45.01 i 44.0	Nat profit / emity canital	1 0.00		
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ILess variable costs 73570.0 IVARIABLE MARGIN 391430.0 ILess fixed costs 148690.0 Interest on securities 0.0 Interest on securities 0.0 IInterest on allowances 0.0 IIncome (corporate) tax 72822.0 IInterest payable <td>Sales revenue</td> <td>1 465000.0</td>	Sales revenue	1 465000.0
VARIABLE MARGIN 391430.0 In % of sales revenue 84.1 Less fixed costs 148690.0 Interest ixed costs 148690.0 Interest on securities 242740.0 Interest on securities 0.0 Interest on securities 161422.1 Interest on allowances 161422.1 Interest profit / equity capital 0.0	Less variable costs	1 73570.0
Hin & of sales revenue 1 Hess fixed costs 1 Hess fixed costs 1 HOPERATIONAL MARGIN 1 HOPERATIONAL MARGIN 1 Hoperational costs 1 Hinterest on securities 1 Hinterest on securities 1 Hinterest on securities 0.0 Hintestment allowances 0.0 Hinterest allowances 0.0 Hintestment allowances 0.0	VARIABLE MARGIN	1 391430.0
ILess fixed costs 148690.0 IOPERATIONAL MARGIN 242740.0 Ione of sales revenue 52.2 Interest on securities 0.0 Interest on securities 0.0 Interest on securities 0.0 Iffinancial costs 0.0 Interest on securities 0.0 IGROSS PROFIT FROM OPERATIONS 242740.0 In % of sales revenue 52.2 IExtraordinary income 0.0 IExtraordinary loss 0.0 IDepreciation allowances 0.0 Investment allowances 0.0 Intext profit 242740.0 Intext profit 242740.0 Intrestment allowances 0.0 Intext profit 242740.0 Intext profit 169918.0 Intext profit 169918.0 Intext profit 36.5 Intext profit 161422.1 Intext profit 8495.5 Intext profit 6495.5 Intext profit 6495.5 Intext profit 6.0 Intext profit 6.0 Intext profit	in % of sales revenue	1 84.1
IOPERATIONAL MARGIN 242740.0 Iin & of sales revenue 52.2 IInterest on securities 0.0 IInterest on securities 161422.1 IInterest on securities 10.0 IInteres	Less fixed costs	148690.0
lin & of sales revenue 52.2 Interest on securities 0.0 IFinancial costs 0.0 IFinancial costs 0.0 IGROSS PROFIT FROM OPERATIONS 242740.0 In & of sales revenue 52.2 In & of sales revenue 52.2 Interest on securities 0.0 Interest on securities 0.0 IGROSS PROFIT FROM OPERATIONS 242740.0 Itextraordinary income 0.0 IExtraordinary loss 0.0 IDepreciation allowances 0.0 Investment allowances 0.0 Investment allowances 0.0 Income (corporate) tax 72822.0 Int of sales revenue 36.5 Int of sales revenue	OPERATIONAL MARGIN	1 242740.0
Interest on securities Interest on securities IPinancial costs IPinancial costs IGROSS PROFIT FROM OPERATIONS IGROSS PROFIT FROM OPERATIONS IExtraordinary income IExtraordinary income IExtraordinary loss IDepreciation allowances IDepreciation allowances Investment allowances Investment allowances Income (corporate) tax Income (corporate) tax Inter PROFIT Income (corporate) tax Inter PROFIT	in % of sales revenue	1 52.2
IFinancial costs 1 0.0 IGROSS PROFIT FROM OPERATIONS 242740.0 In % of sales revenue 52.2 In % of sales revenue 52.2 IExtraordinary income 0.0 IExtraordinary loss 0.0 IDepreciation allowances 0.0 IGROSS PROFIT 242740.0 IGROSS PROFIT 242740.0 IGROSS PROFIT 242740.0 Investment allowances 0.0 Income (corporate) tax 1 Income (corporate) tax 1 INET PROFIT 169918.0 In % of sales revenue 36.5 Int % of sales revenue 1 Int % of %) 1	Interest on securities	·i0.0
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IExtraordinary income IExtraordinary loss IExtraordinary loss IDepreciation allowances IDepreciation allowances IGROSS PROFIT IGROSS PROFIT Investment allowances	In % of sales revenue	1 52.2
IExtraordinary loss 1 IDepreciation allowances 0.0 IDepreciation allowances 1 IGROSS PROFIT 242740.0 Investment allowances 0.0 Investment allowances 0.0 Income (corporate) tax 1 Income (corporate) tax 72822.0 Inter PROFIT 169918.0 Inter PROFIT 169918.0 Inter PROFIT 161422.1 Inter PROFIT 161422.1 Inter PROFIT 18495.5 Inter In	Extraordinary income	1 0.0
IDepreciation allowances 1 IGROSS PROFIT 1 IGROSS PROFIT 1 Investment allowances 1 Income (corporate) tax 1 Income (corporate) tax 1 Income (corporate) tax 1 Int of sales revenue 1 Int of sal	Extraordinary loss	1 0.0
IGROSS PROFIT 1 242740.0 Investment allowances 1 0.0 Investment allowances 1 0.0 ITAXABLE PROFIT 1 242740.0 Income (corporate) tax 1 1 Income (corporate) tax 1 72822.0 Inter PROFIT 1 169918.0 Inter PROFIT 1 169918.0 Inter of sales revenue 1 161422.1 Inter PROFIT 1 1 Inter PROFIT 1 1 Inter PROFIT 1 1 Inter PROFIT 1 1	Depreciation allowances	1 0. <u>0</u>
Investment allowances 0.0 ITAXABLE PROFIT 1 ITAXABLE PROFIT 1 Income (corporate) tax 1 Int of sales revenue 1 <td>IGROSS PROFIT</td> <td>1 242740.0</td>	IGROSS PROFIT	1 242740.0
ITAXABLE PROFIT 242740.0 Income (corporate) tax 1 Income (corporate) tax 72822.0 Income (corporate) tax 1 Income corporate 1	Investment allowances	0.0
Income (corporate) tax 1 72822.0 INET PROFIT 1 169918.0 In % of sales revenue 1 36.9 In % of	TAXABLE PROFIT	1 242740.0
INET PROFIT I 169918.(IIn % of sales revenue I 36.9 IDividends payable I 161422.1 IRETAINED PROFIT I 8495.9 II IRatios (%) I INET profit / equity capital I 0.0	Income (corporate) tax	1 72822.0
In % of sales revenue 1 36.9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INET PROFIT	1 1 169918.0
IDividends payable I IDividends payable I I I IRETAINED PROFIT I	In % of sales revenue	1 36.5
IRETAINED PROFIT I 8495.9 I I I IRatios (%) I I INet profit / equity capital I 0.0	Dividends payable	1 161422.1
Image: state	RETAINED PROFIT	1 8495.9
Net profit / equity capital 0.0		-¦
	Net profit / equity capital	, 1 0-0
INet profit / Net worth ! 43.0	Net profit / Net worth	1 43.0

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CASH FLOW FOR FINANCIAL PLANNING - TOTAL US DOLLAR				
	I 1994	1 1995	1 1996 1	
	1	1	1 1	
TOTAL CASH INFLOW	1 0.00	270000.00	1 270000.00 1	
Inflow funds	1 0.00	1 0.00	1 0.00 1	
Inflow operation	1 0.00	1 270000.00	1 270000.00 1	
Other income	1 0.00	0.00	1 0.00 1	
TOTAL CASH OUTFLOW	1 326340.00	255608.90	1 208530.09 1	
increase in current assets	1 326340.00	1 0.00	1 0.00 1	
Increase in current assets	1 0.00	46625.56	1 0.00 1	
Operating costs	t 0.00	1 139876.67	1 139876.67 1	
Marketing costs	1 0.00	t 0.00	1 0.00 1	
Income (corporate) tax	1 0.00	13000.00	! 16885.00 !	
Financial costs	1 0.00	1 27290.00	1 14340.00 1	
Loan repayment	1 0.00	.00	1 0.00 1	
Dividends payable	I 0.00	28816.67	1 37428.42 1	
Equity capital refund	1 0.00	I 0.00	1 0.00 1	
SURPLUS (DEFICIT)	1 -326340.00	14391.10	i 61469.91 i	
CUMULATIVE CASH BALANCE	£ -326340.00	1 -311948.90	1-2500478.99 1	
Foreign surplus (deficit)	i 0.00	1 0.00	1 0.00 1	
Local surplus (deficit)	1 -326340.00	14391.10	1 61469.91 !	
Foreign cumulative cash baland	ci 0.00	I 0.00	1 0.00 1	
Local cumulative cash balance	1 -325340.00	1 -311948.00	1 -250478.00 1	
Net flow of funds	1 0.00	1 - 28816.67	1 - 37428.42 1	

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1	1997	i 1998 -	1999
TOTAL CASH INFLOW	465000.00	465000.00	465000.00
Inflow funds	0.00	1 0.00	0.00
Inflow operation	465000.00	465000.00	465000.00
Other income	0.00	I 0.00	0.00
TOTAL CASH OUTFLOW	414944.41	1 1 398753.15	1 397943.15
increase in current assets	0.00	. 0.00	0.00
Increase in current assets	16571.11	1 0.00	.00
Operating costs	169590.00	1 169590.00	169590.00
Marketing costs	20000.00	20000.00	£ 20000.00
Income (corporate) tax	61086.00	64773.00	64773.00
Financial costs	12290.00	810.00	ı 0.00
Loan repayment	0.00	.000	ı 0.00
Dividends payable	135407.30	143580.15	143580.15
Equity capital refund	0.00	1 0.00	. 0.00
SURPLUS (DEFICIT)	50055.59	1 66246.85	67056.85
CUMULATIVE CASH BALANCE	-200423.40	1 -134176.55	1 - 67119.70
Foreign surplus (deficit)	0.00	. 0.00	1 0.00
Local surplus (deficit)	50055.59	1 66246.85	67056.85
Foreign cumulative cash balanc	0.00	.000	0.00
Local cumulative cash balance	-200423.40	! -134176.55	1 - 67119.70
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CASH FLOW FOR FINANCIAL PLANNING - TOTAL US DOLLAR

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1	2000	1 2001	2002
TOTAL CASH INFLOW	465000.00	465000.00	465000.00
Inflow funds i	0.00	1 0.00	0.00
Inflow operation !	465000.00	465000.00	465000.00
Other income t	0.00	0.00	0.00
TOTAL CASH OUTFLOW	558222.00	423872.70	423872.70
increase in current assets !	134350.00	0.00	c.00
Increase in current assets !	0.00	! 0.00	1 0. 00
Operating costs l	169590.00	1 169590.00	169590.00
Marketing costs !	20000.00	1 20000.00	20000.00
Income (corporate) tax !	72834.00	1 72834.00	72834.00
Financial costs !	0.00	1 0.00	. 0.00
Loan repayment l	0.00	t 0.00	I 0. 00
Dividends payable !	161448.70	161448.70	161448.70
Equity capital refund	0.00	I 0.00	1 0.00
SURPLUS (DEFICIT)	- 93222.00	41127.30	41127.30
CUMULATIVE CASH BALANCE	-160341.70	! -119214.40	1 - 67119.70
Poreign surplus (deficit)	0.00	I 0.00	I 0.00
Local surplus (deficit)	- 93222.00	I 41127.00	41127.30
Foreign cumulative cash balanc!	0.00	1 0.00	. 0.00
Local cumulative cash balance I	-160341.70	1 -119214.00	1 - 78087.10
Net flow of funds	-161448.70	1 -161448.70	1

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CASH FLOW FOR FINANCIAL PLANNING - TOTAL US DOLLAR

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1	2003	1 2004	l Scrap 2005
TOTAL CASH INFLOW	465000.00	465000.00	64032.57
Inflow funds	0.00	0.00	1 0.00
Inflow operation !	465000.00	465000.00	0.00
Other income !	0.00	. 0.00	64032.57
TOTAL CASH OUTFLOW	423872.70	423680.70	0.00
increase in current assets	0.00	0.00	0.00
Increase in current assets	0.00	.00	0.00
Operating costs !	169590.00	169590.00	.00
Marketing costs !	20000.00	20000.00	.00.00
Income (corporate) tax !	72834.00	72822.00	.00
Financial costs !	0.00	1 0.00	. 0.00
Loan repayment	0.00	1 0.00	t 0.00
Dividends payable !	161448.70	! 161448.70	1 0.00
Equity capital refund	0.00	. 0.00	. 0.00
SURPLUS (DEFICIT)	41127.30	1 <u>41139.30</u>	64032.57
CUMULATIVE CASH BALANCE	- 36959.80	4175.50	e 68212.07
Foreign surplus (deficit)	0.00	1 0.00	1 0.00
Local surplus (deficit)	41127.30	41139.30	64092.57
Foreign cumulative cash balanc!	0.00	I 0.00	0.00
Local cumulative cash balance !	- 36959.80	4179.50	68212.07
Net flow of funds	-161448.70	1 -161448.70	0.00

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