#### INVESTMENT CO-OPERATIVE PROGRAMME BRANCH

### INDUSTRIAL INVESTMENT PROJECT PROFILE

Country:	NEPAL	Project number:	32-1	
ISIC:	3211	Submission date:	December	1983
Project ti	tle:			to grand to the
	Integrated Tex	ctile Mill		
				· · · · · · · · · · · · · · · · · · ·

#### Project description

# Part A - Information on the project

- 1. Technical aspects
- 1.1 Is this project a new enterprise or expansion/modernization of an existing one?

A new enterprise

1.2 Product(s) to be manufactured: ( Plant Capacity)

Fabric: 15 million metres

60% cotton (Poplin, sheeting, saris)

20% polyester (Suiting)

20% polyester/cotton (65/35 blend shirting)

Yarn: 350 tons

80% cotton

20% polyester/cotton

V. 83-65500

1.3 For which market? (Export, local, etc.):

Domestic market (150 million metres/year, growing at over 4% annually) can currently be covered by domestic production only to the extent of 20%. The proposed plant will increase local capacity to 30%. The need for imports will correspondingly be reduced.

- 1.4 Plant capacity and manufacturing process: As shown under 1.2.
  - 1.) Spinning: 18500 spindles producing both for the plant's weaving needs and for sales as yarn
  - 2.) Weaving : 650 looms
  - 3.) Dyeing, printing, finishing : Commensurate with weaving capacity.
- 1.5 Availability of manpower, raw materials and utilities (power, water, etc.):

Manpower : 1300 direct + 200 indirect = 1500 total

Power: Installed capacity 3000 KW (No difficulties expected at planned location after 1986)

Water : Available at 1000 ft.

Raw material: Polyester imported; cotton now mostly imported, but more local production is expected in near future. (Cotton development project" proceeding in

1.6 Plant location and availability of infrastructural facilities: same district)

Nepalgunj (Banke District, Bheri Zone, Mid-Western Nepal) near Indian border, about 20 km south of "East-West" Highway (under construction).

Enterprise will be largest industrial plant in the area. Some infrastructural facilities will need to be created.

# 2. Financial aspects

(all in \$ '000)

2.1 Total project cost, broken down into land, construction, installed equipment and working capital, indicating foreign exchange component:

	Local currency component (in US\$)	Foreign currency component (in US\$)	Total (in US\$)
Fixed investment:		•	
Land	130	<b></b>	130
Buildings& civil works	4,250	. <b>-</b>	4,250
Machinery and equipment	600	10,760	10,760
Working capital	3,320	. 400	3,320
Pre-operational expenses	140	200	340
Interest during construction	400	600	1,000
Provision for contingencies	100	100	200
Total	8,340	11,660	20,000

2.2 Proposed financial structure, indicating expected sources and terms of equity and loans:

	Local sources (in US\$)	Foreign sources (in US\$)	Total (in US\$)
Equity	2,700	2,500	5,200
Long-term loans	3,640	9,160	12,800
Medium-term loans		<b>.</b>	===
Short-term loans	2,000	**************************************	2,000
Total	8,340	11,660	20,000

2.3 Information on profitability and return on investment:

Based on 90% capacity utilization, sales revenue of \$ 22 million and net profits before tax of \$ 8.5 million are expected.

# 3. Foreign contribution desired

Indicate whichever is needed among the following:

X - Equity participation	on The information in this questionnaire is based on preliminary information
x - Loans	currently at hand. As a result of
- Licence and know-h	the Solidarity Ministerial Meeting
- Access to foreign	
- Other	has agreed to provide funding for a feasibility study which will be conducted by the Investment Advisory
	Center of Pakistan starting in November 1983.
Project study availab	By the time the Investment Promotion Meeting is being held (March 1984), and possibly even earlier, considerable detail information will be available.
Pre-feasibility	
Feasibility	The Pakistan Government will provide
Other	training for key personnel of the proposed textile mill; and hopes to
None	be selected as the supplier for much of the required equipment.
	- Loans - Licence and know-he - Access to foreign to - Other  Project study availab  Pre-feasibility Feasibility Other

### 5. Currency exchange rate used:

Date: Oct, 1983

Rate: US\$ 1 = N.Rs. 15.00 (Late 1983)



#### UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

#### INVESTMENT CO-OPERATIVE PROGRAMME BRANCH

### INDUSTRIAL INVESTMENT PROJECT PROFILE

Count	ry: NEF	AL	Project n	umber:	32-3		
ISIC:	321	1	Submissio	n date:	December	.1983	-
<sup>P</sup> ro je	ct title:						
-	Polywool	(Petrochemic	cal Fibre	mixed	with Woo	1)	

#### Project description

#### Part A - Information on the project

- 1. Technical aspects
- 1.1 Is this project a new enterprise or expansion/modernization of an existing one?

The proposed project is new one of its kind.

- 1.2 Product(s) to be manufactured:
  - 1 Intermediate Product :

Plastic fibre made from (petrochemical) polypropylene and other plastic granules.

2 - Final Output:

Thread spun (various sizes) from the intermediate product.

1.3 For which market? (Export, local, etc.):
Proposed project has envisaged local market. At present Nepalese cotton, wool, synthetic and other fibre processing mills depend on India or overseas countries for their raw material requirement.

The high price of raw material means high price of final products which if raised above a certain level may be come counter productive and hence can ruin the export market and industry itself. So proposed project has aimed to cater necessary raw materials as well as production of polywool.

# 1.4 Plant capacity and manufacturing process:

The total production capacity is to process 1250 MT granules per annum. The production is divided into two separate processes, firstly, making plastic fibre from petro-chemical polypropylene and other plastic granules which is one complete process in itself. In second process this plastic fibre is spinned to make thread of required size for different purposes. Again, spinning of specific type of thread will be done by hand which means giving more work to local families on piece work basis.

- 1.5 Availability of manpower, raw materials and utilities (power, water, etc.):
  - a. Total manpower 184 (\*)
  - b. Raw material has to be imported from overseas (1250 MT granules per year).
  - c. Utilities (power and water) are available near the plant location.
  - (\*) It is expected that an additional 2500 jobs will be created in Nepal as a consequence of the plant's existence.
- 1.6 Plant location and availability of infrastructural facilities:

Plant location - Hetauda
All the infrastructural facilities are well developed near the plant location.

### 2. Financial aspects

2.1 Total project cost, broken down into land, construction, installed equipment and working capital, indicating foreign exchange component:

	Local currency component (in US\$)	Foreign currency component (in US\$)	Total (in US\$)
Fixed investment:			
Land	40,000	<b>-</b>	40,000
Buildings	83,333	10,000	93,333
Machinery and equipment	45	800,000	800,000
Working capital	400,000	<b>=</b> •	400,000
Pre-operational expenses )			
Interest during construction)	all costs	are included	above
Provision for contingencies)	-		
Total	523,333	810,000	1,333,333

2.2 Proposed financial structure, indicating expected sources and terms of equity and loans:

	Local sources (in US\$)	Foreign sources (in US\$)	Total (in US\$)
Equity	472,000	328,000	800,000
Long-term loans	51,333	482,000	533,333
Medium-term loans			
Short-term loans	-	-	_
Total	523,333	810,000	1,333,333
			-

2.3 Information on profitability and return on investment:

Return on equity after providing for depreciation and servicing of long term finance is expected around 24 %.

# 3. Foreign contribution desired

Indicate whichever is needed among the following:

- x Equity participation
- Loans
- x Licence and know-how
- Access to foreign markets
- Other

# 4. Project study available:

	Pre-feat	sibil	ity				
	Feasibi.	lity		) }			
x	Other	(,a,			description	report on	the
	None		pro	oposed p	roject)		

# 5. Currency exchange rate used:

Date: 30 Nov. 1983

Rate: US\$ 1 = Rs. 15.00



### UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

# INVESTMENT CO-OPERATIVE PROGRAMME

Country:

NEPAL

\*Project No.:

32-2

\*ISIC:

3211

Date of Submission: Dec. 1983

Project Title:

Cotton dyeing and printing

1.	PROJECT DESCRIPTION	
1.1	Is this a new project or an expansion/modernization of an existing project?	X New
	the distribution of the control of t	Expansion/modernization
	Who initiated the project and when?	NIDC 1982
1.2	What are the products to be manufactured? Describe size other important specifications of each product to be product to be produced. The plant will (using yarn and cloth produced)	oduced. by others) undertake
	dyeing of cotton yarn and cloth; and printing	of cotton cloth
		CT vana
1.3	project (e.g. pre-feasibility study)? Please	None  [x] (Pre-)feasibility study
	list and give dates when they were carried out and by whom, including studies under preparation, or necessary updating:	Detailed project description
	Pr. TCG (Tulty 1097)	Technical study
	By ISC (July 1982)	Market study
		Other
2.	PLANT CAPACITY	
2.1	Specify plant capacity, i.e. what is the "rated" capaci of the plant?	ty (maximum production)
	(Dyeing 1,500 MT of grey yarn (2 shifts)	
	Per Dyeing 3.6 million metres of cloth (1 sh	ift)
2.2	year (Pringing 3.8 million metres of cloth (2 On what basis has the proposed plant capacity been estimated?	shifts) Projected sales
		Minimum economic size
	Appropriate size, considering availability of local inputs, manageability, etc.	X Other (specify)
2.3	Describe the annual production programme for each finis (main product(s), by-product(s)) to be manufactured.	hed product
	Du tout tou Occupation	
	Production Quantity	
	Product Unit Per hour Per shift Shift/day Work	ing days/year Quantity per year
	see 2.1 (above)	

<sup>2.4</sup> If this is an expansion/modernization project, give details on present production, bottlenecks, reason for modernization, expansion, etc.

- 3. RAW MATERIALS AND INTERMEDIATE PRODUCTS
- 3.1 Indicate in the table below the quantities per year and the sources of major raw materials and intermediate products which will be used. For imported materials indicate usual sources and specify import duties or other restrictions where applicable, and c.i.f. prices (in US\$ equivalent).

			SOURC	E	
1 Raw materials/ Intermediate products	2 Quantity (per year)	3 Indigenous (local) raw materials	4 Intermediate prods. manufactured locally	5 Country from which imported	
Yarn F. Dyeing	1,500 tons	3	~		2,000
Cloth F. Dyeing	3.6x10 <sup>b</sup> m		Processed in		
Cloth F. Printing	3.8x10 <sup>6</sup> m		contract	·	*5
Dyes + Inks	33 tons				11,000
Other Chemicals	(Yearly to	otal)			110,000
Lubricants	(Yearly to	otal)			3,300
			<u> </u>		

Note: For imported items fill in columns 1, 2, 5 and 6 only. Relate quantities to figures given in para. 2 (previous page).

3.2 How large are the proven and exploitable reserves of the indigenous raw materials?

Most yarn and cloth used in Nepal is now imported in dyed/printed state. However about 50 million metres of cloth (about % of demand) is now woven in the country. 300 MTY of yarn will soon become available from Hetauda Textile Industry; A spinning plant at Butwal (16,600 spindles) also will become operational soon(1986).

3.3 Describe the problems or restrictions, if any, you foresee in exploiting indigenous resources in the future.

None

3.4 What are the existing or planned capacities for local production of raw materials and intermediate products?

Large scale cotton planting is envisaged for the medium-term future

4.2

4.3

4.4

4.5

4.6

4.7

# 4. UTILITIES AND ENERGY

4.1 Indicate in the following table what utilities will be required.

Type Quantity		Annual cost delivered at factory	
	(per year)	Local currency	US\$ equivalent
Fuel, oil, etc.		100,000	6,667
Coal			
Gas			
Electricity		607,500	40,500
Water from river	600m <sup>3</sup> per shift	-	_
Other			anganga angang angang menanggang angang
Full capacity?  If not, is additional the future?  Is there information supply failures and in the proposed site?  Is the supply of wate there seasonal fluctu	available on electr nterruptions? sufficient quantit r constant or are	icity No p	X Yes No Yes No Problems expected Yes No X Yes No Constant
s the quality of the atisfactory or are teawater desalination	reatment facilities		ter will be treate
ndicate what additione necessary in respe			US\$
	Electricity go	enerators	
	Transmission : Sub-stations	lines	

included

Water wells

Water pipes
Other (specify)

A-28-12

5.	LOCATION AND SITE	
	The following questions may only be answered if the sibeen selected or proposed:	te has already
5.1	Where is the factory to be built or expanded?	
	In the Kathmandu valley	
5.2	Why was this location selected?	
	Close to raw materials and water Clo	se to markets
-	Convenient for transportation X Clo	se to existing facilities
	Other (specify) Yes; but	not advantageous in this
5.3	Is there a Free Trade Zone or an Industrial Estate in which the factory could be built?	Case.  ☐ Yes ☐ No
5.4	How much land will be required?	6,500 square meters
	How high is its estimated unit cost? US\$	5.33 per square meter
	Is land readily available?	X Yes No
	If not, indicate how you propose obtaining land:	
5.5	Are adequate transportation facilities (road, rail, port) available at the proposed site?	x Yes No
5.6	Are post and telecommunication facilities available?	🕱 Yes 🔲 No
5.7	Are there housing facilities near the proposed site which could accommodate workers?	X Yes No
	If not, are there plans to erect housing facilities?	Yes No
5.8	What environmental impacts are expected to result from the project?	
	Do relevant environmental protection regulations exist?	Yes No
	Are existing waste disposal (effluent treatment) facilities adequate?	Yes ? No
5.9	What additional investments may be required to overcome deficiencies in:	US\$
	Transportation Communication Housing	ay be needed (not included in study)
	Ocher (specify)	A CONTRACTOR OF THE PARTY OF TH

- 6. MANAGEMENT AND LABOUR
- 6.1 List estimated local and foreign personnel requirements and average annual wages, inclusive of all allowances and benefits, required when the proposed plant is operating at full capacity (in the case of expansion/modernization, indicating present and projected figures).

		Local	Foreign		
Administration and production	Number	Annual wage/ person (US\$ equivalent)	Number	Annual wage/ person (US\$ equivalent)	
Management	3				
Clerical	2				
Technical supervision	9				
Skilled labour	25				
Unskilled labour	20				
Seasonal labour					
Other (e.g. marketing staff)	4	:			
Totalannual payroll	63	30,000			

6.2 What staff training will be needed to ensure the effective operation including maintenance and repair of the project?

	No. of staff requiring training		Proposed duration		
	Locally	Abroad	Locally	Abroad	
Management					
Technical supervision	see 6.3				
Skilled labour					
Clerical					
Marketing					

6.3 What type of assistance will be needed from foreign staff, and for how long? Indicate also the level and number of staff needed to provide the assistance foreseen.

Type of assistance	Level of foreign personnel	Number	Duration of assistance
Adviser to management			
Post is recommended in study, be in financial analysis	ut its cost is	not in	luded

~•.	* ^ ~ 1	<b>LEAST TO SERVICE A SERVICE</b>
7	1.000	MARKET
7:	かんへいかり	fattities.

7.1 Estimate the current annual demand in your country for the product(s) envisaged by this project:

Much larger than can be satisfied by this project

At what rate is the local market expected to expand over the next few years?

- 7.2 How is this demand for each product being satisfied at present?
- 7.3 If imported, what are the current c.i.f. landed costs per unit of product(s) for each of the products? What are the duty tariffs, taxes and other costs?
- 7.4 If <u>locally produced</u>, what are the current selling prices per unit of product(s)?
- 7.5 What measures will be taken to capture (a share of) the local market?

- 7.6 What percentage of your production is intended for sale on the local market?
- 7.7 Is there a sales organization existing or is it necessary to build one up (size, qualifications)?

Sales officer included in manning table.

X	protection from imports
	Offering lower sales prices
	Manufacturing better quality products
	Offering better servicing
	Other (specify)

% per year

see 3.2 % by local production

% by importation

100 %

NY	avnant	AMARKA
NO	export	expected

8.	EXPORT MARKET		•
		$x_1 = 1 \qquad \forall x \in \mathbb{R}$	
8.1	Does your country already export the product(s) to be manufactured by the	:	
	proposed plant?	Yes	No
	If yes, to which countries?	vi e i	
• •			
8.2	Is your product(s) subject to any special importation quotas in your		
	export markets?	Yes	No
	If yes, specify.		
	22.2	•	-
8.3	Will your product(s) benefit from trade agreements between your		
	country and proposed export markets?	Yes	No
	If yes, how?		•
•			•
8.4	What is the proposed f.o.b. selling price per unit for your product(s) on the	us\$	
	export market? (This information will be kept confidential.)	υ5φ	
8.5	What percentage of your production is intended for exportation?	d d	
	indended for exportation.		
8.6	Is there additional staff (number, qualification) needed for export	•	
	marketing?		

9.	PROJECT IMPLEMENTATION (FACTORY ESTABLISHMENT)		
9.1	Do you consider the technology envisaged appropriate for your project (labour or capital intensive, etc.)?	x Yes	∏ No
	If not, have alternative technologies been investigated? Please specify.	Yes	☐ No
9.2	What licences or technical know-how will be required for the project?		
	Some technical know-how (from joint venture page	rtner)	
			·.
9.3	Are plant and machine operators and erection (i.e. construction) personnel available locally?	x Yes	□ No
٠	If not, how do you expect to hire them?		
9.4	What is the estimated time schedule required for the following activities?		
	Completion of additional studies	MODERN	· ·
	Supply of machinery		-
	Planning, engineering, and erection of plant		<u>.</u>
	Completion of arrangements for supply of raw materials		-
	Completion of arrangements for marketing of finished products		-
	Start-up and initial operations	e.c.awa	•
	Approximately how much time do you estimate will elapse from the time the investment decision is taken to the start-up of the plant?	o 2 years	; -

	INVESTMENT			TAMES A STATEM	
10.	A DESCRIPTION OF THE PROPERTY OF THE PERSON	Z TYCHI	ANII	RINGNET NE	
чи.	1 13 4 12 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LIAIL	AUL	1, 711,711,0711,0	

10.1 Estimate of investment costs (as of July 1982 ):

(DATE)

	Local Currency	Foreign Currency	Total
	(exp	ressed in US\$)	<u> </u>
Land	36,000	1	36,000
Site preparation	***************************************		
Design and engineering			
Buildings and civil works	400,000	128,466	528,466
Auxiliary and service facilities			
e.g. Utilities		1	
Infrastructure			
Plant machinery and equipment		1,506,867	1,506,867
Pre-production capital expenditures	24,267	200,000	224,267
SUB-TOTAL	460,267	1,835,333	2,295,600
Contingencies		-	-
TOTAL FIXED INVESTMENT	460,267	1,835,333	2,295,600
Working capital	350,000	-	350,000
TOTAL INITIAL INVESTMENT	810,267	1,835,333	2,645,600

# 10.2 Proposed sources of finance:

	Local currency	Foreign currency	Total
	(exp	ressed in US\$)	
Equity	357,000	343,000	700,000
Long term loans	103,267	1,492,333	1,595,600
e.g. Suppliers' credits			
Official loans or credits			
(Source: )			
Other (specify)			
Short and medium term loans	350,000	_	350,000
TOTAL FINANCING	810,267	1,835,333	2,645,600

10.3	What ownership (participation is equity) is foreseen for the project?	51 % local (private
		49 % foreign

### 11. NATIONAL ECONOMIC AND SOCIAL BENEFITS

11.1 How does this project fit into the Government's national economic development plan?

# Approved by Government

11.2 What other projects, either operational or planned, have important technical or commercial backward, downstream, or horizontal linkages (connections) with the proposed project?

Linkages to local spinning and weaving industries; also to garment manufacture

- 11.3 Describe the direct and indirect social benefits which are expected to result from the proposed project.
  - 1) Import substitution
  - 2) Job creation
  - 3) Skill creation

12.	FOREIGN CO-OPERATION SOUGHT	
	Cash investment	
	- Equity	Ι×Ι
	- Loans	X
	Joint venture	X
	Sub-contracting	$\overline{\Box}$
	Licencing	=
-	Sale of technology	
	Turnkey project	
	Equipment supply	X
	Market access	$\bar{\Box}$
	Expertise	
	- Management	
	- Technical	x
	- Training	x
•	Mankating	

