



OCCASION

This publication has been made available to the public on the occasion of the 50th anniversary of the United Nations Industrial Development Organisation.



DISCLAIMER

This document has been produced without formal United Nations editing. The designations employed and the presentation of the material in this document do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations Industrial Development Organization (UNIDO) concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries, or its economic system or degree of development. Designations such as "developed", "industrialized" and "developing" are intended for statistical convenience and do not necessarily express a judgment about the stage reached by a particular country or area in the development process. Mention of firm names or commercial products does not constitute an endorsement by UNIDO.

FAIR USE POLICY

Any part of this publication may be quoted and referenced for educational and research purposes without additional permission from UNIDO. However, those who make use of quoting and referencing this publication are requested to follow the Fair Use Policy of giving due credit to UNIDO.

CONTACT

Please contact <u>publications@unido.org</u> for further information concerning UNIDO publications.

For more information about UNIDO, please visit us at www.unido.org



UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

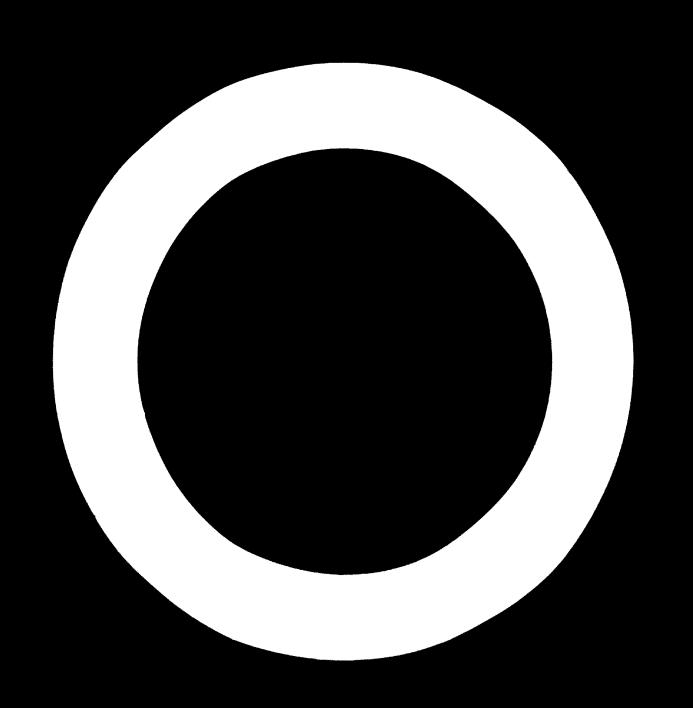
Distr. HERRICTED UNIDO/1770.142 12 Harch 1974 HOLLSH

05378

REPORT ON THE UNIDO/ECA REGIONAL WORKSHOP ON INDUSTRIAL PROJECT PREPARATION AND EVALUATION

ADDIS ABABA, ETHIOPIA (29 January - 14 Webruary 1974)





INTRODUCTION

The Regional Workshop on the Preparation and Evaluation of Industrial Projects was held in Addis Ababa, Ethiopia. It was implemented jointly by UNID: and ECA and was financed from the 1974 Regional Frogramme of UNID: The Regional Workshop was the first activity of the recently established Joint ECA UNID: Industry Division. The preparation of the Workshop was assigned to the Industrial Policies and Programming Division of UNID: The Workshop was attended by 25 participants from seven English-speaking African countries, vis.: Ethiopia, Malawi, Nigeria, Swaziland, Tanzania, Uganda and Zambia.

1. OBJECTIVE OF THE WORKSH P

The purpose of the Workshop was to assist ministries of industry and/or planning and other interested governmental and semi-governmental agencies to upgrade their current practices in the fields of project preparation, financial analysis and national economic evaluation. The objective was achieved through an intensive programme including the presentation of concepts and techniques and the evaluation of several industrial projects submitted by the participants.

2. PREPARATION OF THE REGIONAL WORKSHOP

The preparation of the Workshop was mainly the responsibility of the Industrial Programming Section of UNIDO. The selection of candidates was done jointly with the Section for Africa, TCD. Due to the late submission of some of the candidates it was not possible to involve ECA in the selection procedure. With the exception of one candidate whose professional line of activity was not at all related to the objectives of the Workshop, the selection committee was able to accept all candidates submitted by the Governments of the countries concerned.

Although the participants had been requested to submit one or more industrial projects currently under active consideration by their Governments, for use as case studies for evaluation during the Workshop, we were only able to receive these studies upon our arrival in Addis Ababa

The proposal for a sugar plant (Sthiopia), a shoe factory (Tensenia) and a tin-can plant (Malawi) were edited and propered jointly with the country representatives for discussion during the Norkshop.

In the course of the Workshop, the documents listed below were distributed to the participants:

- a) "Guidelines for Project Evaluation" (ID/SER/H/2)
- b) "Checklists for individual studies and planning stages as used in project screening operation" (ID/MO.55/3)
- e) "Extracts of Industrial Feasibility Studies" (ID/NG/52/2)
- d) "Problems often encountered in implementing industrial projects in developing countries", UNIDO Industrialisation and Productivity Bulletin, Nr. 17
- e) "Simple criteria for commercial evaluation break-even, point, payback period, and rate of return in a typical year", UNIDO Secretariat
- f) "Case study: rolling mill and scrap iron smelting plant"
- g) "Case study: sugar plant"
- h) "Case study: shoe factory"
- i) "Case study: tin-can factory"

3. PROCESURE OF THE RECTURAL WORKSHOP

The Verkshop took place in Africa Hall of the UN ECA. It was efficially opened on 30 January 1974 by Mr. Sobhat Hable Sclassie, Director of the Industry and Housing Division of ECA and by Mr. Worner Behrene, of the Industrial Policies and Programming Division, UNIDO, the directed the Workshop. Mr. Sobhat Hable Sclassis conveyed an eponing statement by the Emecutive Secretary of ECA, Mr. R. K. A. Gardiner, to the participants. Copy of this statement is given in Annex I.

Sessions were held Monday - Friday, from 9 - 12 hours and from 15 - 18 hours. The lectures were given in English. Teaching was mainly performed by Mr. Barnerias, Mr. Behrens (both of the Industrial Policies and Programming Division, UNIDO), and Mr. Hocevar (Joint ECA/UNIDO Industry Division). Ar. Azzam (Joint ECA/UNIDO Industry Division) and Mr. Mead (Harvard Study Group attached to the Planning Commission of Ethiopia) covered one session each. No additional experts were needed.

The Industry and Housing Division of ECA was in charge of the administration of the Workshop, the provision of conference facilities, local transport, arrangement of factory visits, etc.

4. WORK PROGRAMOR

The Workshop covered the methodological aspects of project preparation and evaluation as well as the practical aspects through case studies and plant visits. A total of 25 sessions (3 hours each) or 75 working hours were devoted to the following subjects:

a)	Stages of project preparation, market		
	and techno-economic studies	3	sessions
b)	Commercial analysis	3	sessions
o)	Social-cost benefit analysis	4	sessions
4)	Case studies	10	sessions
•)	Plant visits	3	sessions
t)	Opening and closing of Forkshop	2	sessions
The	detailed Work Programe is given in Annes II.		

5. PARTICIPALITY

25 participants from seven countries took part in the Workshop, originating from Sthiopia (10), Tensenia (6), Higeria (3), Uganda (2), Sembia (1), and Halawi (1).

The majority of the participants had an educational background in economics, engineering, commerce or public administration.

Some of the participants are currently working in development banks, in ministries of industry, economic development or commerce, 2 in planning commissions and 6 in development corporations.

19 participants came from the locat developed countries.

A nominative list of participants is given in Annex III.

6. RESULTS OF THE REGIDIAL WORKSHOP

The participants were all well prepared for the Workshop. Both their educational background and their professional experience - although of different duration - enabled them to follow the presentations and the practical exercises. All participants are currently working at the project level and benefitted therefore from their attendance of the Workshop.

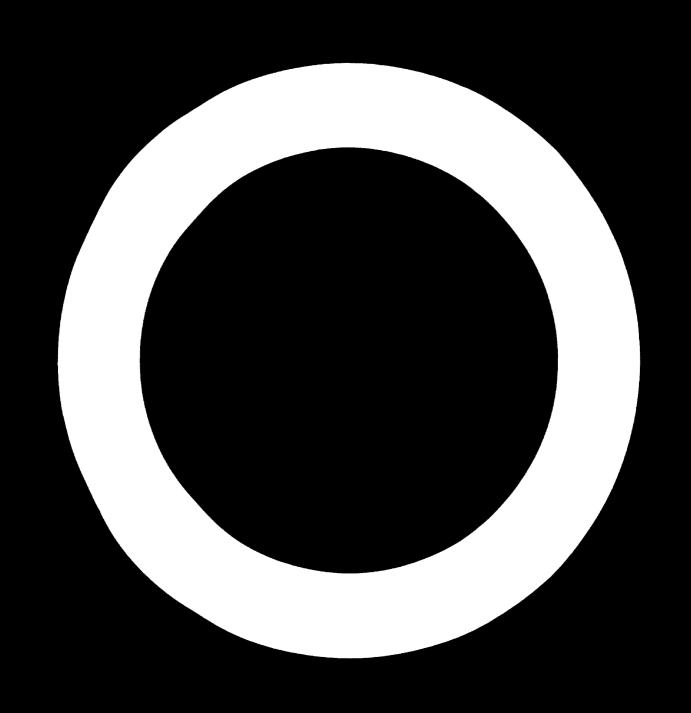
The participants who well keen interest in the subjects dealt with during the Workshop. This was not only reflected by the lively discussions but also by the punctuality and 100 per cent attendance rate of all participants throughout the meeting.

The last session was devoted to the evaluation of the Workshop by the participants. The most selior among them took this opportunity to express the group's satisfaction and appreciation of the Workshop.

In addition, all participants were invited to complete a questionnaire (copy see Annex IV) in order to voice their frank opinion about the meeting. A first assessment of the questionnaires revealed:

- a) the applied method of "learning by doing" was highly appreciated by all participants;
- b) the Workshop achieved its aim of having participants actively engaged in the evaluation of actual cases. It was particularly emphasised that the difficulty of interpreting the varying noncepts of commercial profitability calculation became apparent;

- the turntion of the V rhan of three weeks was generally the unit to be too short to cover project preparation, financial evaluation and national economic experienced in the confit analysis, a field which had been entirely now for rost of them. A few participants suggested to have a redectures in market research and project preparation. A ineralization is very difficult, however, since the professional experience of each participant was not quite the same;
- d) mational manuals for industrial project evaluation have by now been prepared in most countries. It was felt, however, by the participants that in many cases a precental approach was taken by the authors or the issuing institutions and that more refined methods would be needed. In most cases national economic profitability was not a vered by the manuals;
- e) full support was therefore given by the participants to endorse UNIDO action to write national manuals for industrial project evaluation;
- full support was also given to follow-up action in the form of consultative missions to evaluate projects currently under consideration by governments. The participants' attention was drawn to the functions of Mr. Boris Hocevar, UNIDO Regional Advisor for Project Preparation and Evaluation, who would be prepared to undertake such assignments:
- endormment was also rendered to the proposal of UNIDO and RCA developing further joint activities in the fields of project preparation and evaluation in the form of training workshops and/or consultative missions:
- h) the organisation of the Morkshop was fully appreciated by all participants.



pening Statement by Sm. T.K.A. Jordiner,

Tweelith Country,

Shited outline Sc., m. Sommonion for Africa

I am pleased to welcome y u.t. Afri a Hall to participate in the Regional Workshop on Industrial Project Preparation and Systuation. The subject matter of your Workshop carries high priority in the Work Progresse of RCA. This is a reflection of the extent of interest of member States of the Commission in proje t level opment activities have attempted to respond to this need by motilizing filateral and multilateral assistance. This Workshop is to no small measure the result of initiatives pursued with MHD foreover, BA no-persons on a non-Vanuous basis with the Economic Development Institute of the IFRD in organizing training seminars on project evaluation, the first of which was held in Abidjan, Ivory Coast in Schober November 1973 and the second of which is scheduled to be held in March of this year. We have also continuing co-operative programmes with FA' and bilateral donors by means of which we provide advisory services to deveraments in project identification and appraisal notably in respect of food and forest-based industries.

Nomber States are also pursuing active measures to create and strong than their project development michinary as examplified by the increasing number of industrial development and promotion centres being satablished eften with the assistance of UNIDO. Greater attention is also being given to training inside and outside Africa of policy-makers and project evaluators. Much, however, still remains to be done if we are to cope

effectively and effic. on ly with the challenging tack which our countries confront in promoting industrialisation

It is frequently observed that the lack of bankable projects in Africa is as serious a constraint to industrial investment as is the sheet tags of the investible resources themselves. Yet African Governments have expended considerable soney and efforts in organizing and carrying out feasibility studies which generally have not led to the construction of factories or if the projects naturalized then the operation of the enterprises raised more problems than they contributed to the national welfare

Project realisation may either be the result of a political and/or economic decision. The project evaluator has a significant role to play in either case. In the former it is incumbent upon him to spell out the implications of the political decision and to outline alternative approaches to enable the vision of the political leadership to materialise. The latter is essentially the primary responsibility of the project evaluator within the predefined precepts and confines of national grade and instruments.

In this Workshop you will be devoting some attention to reviewing the stages of project development. Here I would only like us to recognize that there is at every stage a decision to be taken either to accept or to reject a project idea. Ye stand to accounts on project development occis if we seriously adhere to this stage-by-stage "accept or reject" notion. Tee frequently considerable recourses are utilized to push through projects which ought to have bound abandoned at an early stage. In this regard the attention paid to market receases and project identification activities are of significant importance.

These activities could systematically be pursued if there existed the requisite insu-how and skills. We need notallurgists; chemical and mechanical engineers; feed, forest and testile tertmologists; and a range of other specialisations to be able to pinpoint investment apportunities

and thence preced to the elaboration and implementation of viable industrial projects. A domestic empablisty in know-flow is not only decisive in terms of identifying a profitable investment opportunity at an early stage but it also makes for designing a project to correctly reflect mational social and economic objectives

The primary functions of technicions, technologists, financiers a desirection is to see to it that industrial projects releated for implementation are commercially viable and technically sound. A correct reseasement of commercial viability is a first and essential requirement of project development. But what is good for the private entrepreneur may not be good for the nation as a whole. This is particularly true for ievaloping countries where because of structural rigidities market primes do not correctly reflect opportunity costs.

More the earling of primary furture of production are heavily influenced by social and institutional considerations and where takes and substitute distort the relative prices of goods, labour my he priced at a ungo empiderably higher than its opportunity cost; capital may be provided at a rate below its real value; and foreign eschange my be overvalued. Under those conditions, the commercial evaluation of a project out give a very different picture from a sectal cost-benefit analysis. Importable funds are furthernore limited and consequently it to important that Constraints who the correct decisions on the appropriate bundle of projects for implementation in a given point of time as well as over time.

In other works projects would need to be corpolizized from the vantage point of the national economy to ensure that the planned programs of investment to optional and that the corport testional decisions are taken at the project level within the council industrial plan. Occopaments, therefore, like private first require a perfective for coroning and extenting projects which could contribute optionally to national eljections. This has given rice to intensive reservab about at formulating testions of could cont-banefit malgate. pretioners, namely the <u>INID</u> Juidelines on Project Evaluation and the <u>INID</u> Juidelines on Project Evaluation and the <u>INID</u> Juidelines on Project Evaluation and the <u>INID</u> Juidelines on Project Evaluation will have been involved in the application of both methodologues and envisage shortly to bring out a publication on the comparative use of those methodologues. The criticisms which are voiced in regard to social cost-benefit smally—sis is that the methodologues suggested are too complex to apply in prescioe. The statistical data required may not be readily available in Africa; and the national parameters required for computation purposes may not be easily established and could also be misleading since they depend on the value judgments of the individual project evaluator.

Neverer, social cost-benefit analysis is not intended to provide precise answers to the complex problems involved in the screening of projects, nor could it claim to be policy-prescriptive. What it can do in such an intricate field as is the process of industrialisation is whether a country would generally be moving in the right direction by opting for a bundle of projects as opposed to mother. What, sorover, could be said with confidence is that at least serious errors in project selection are avoided. More positively, the approach prosetse discipline in project development activities; whether those be in the collection of data, in the analysis and presentation of information, or in the semaideration of a large number of candidate projects.

In this Vertebop you will be focuseing your attention on the WIDO Quidelines on Project Projection. Based on this methodology, you will also be examining and evaluating a number of industrial projects. As a result of these efforts UNIDO and ECA hope that you will asquire now barry lodge which will be of use to you in your future responsibilities. Herefore, we look forward to you becoming the feeal points for the propagation in your sountries of the knowledge you asquire here, through either your day-to-day work or through training programms which you may erganise in the future in your respective countries.

I trust that your stay here would be fruitful and that your afforts would prove practical benefits in your future activities. I have pleasure in declaring this Westshop open. These you.

VYX POORACE

Jamesy 29		Arrival and registration of participants
January 37	9100 - 121 N	.pening of the Workshop Address by the Executive Secretary of ECA (read by Tr S. Hable-Selessie) General Introduction to the Workshop and presentation of the Work Programme (.fr. Behrene)
	15100 - 18100	Stages of project preparation (Mr. Jehrene)
Jenusy 31	9100 - 12100	Narbot study (Mr. Behrens)
	151 X - 18:00	Techno-economic study (Mr. Behrene)
Pobruary 1	91 % - 121 h	Pinancial evaluation: basic coacepts (Mr. Hocevar)
	15:00 - 18:00	tothode and critoria (4r. Hocevar)
Pobrusty 4	9100 - 121 ^M	Discounted cash flow enalysis (Mr. Mead, Harvard Study Group)
	15:00 - 18:00	Visit to industrial plant: Indo-Sthiopian Testile fills
Petrusy 5	9100 - 12100	Introduction to national economic evaluation (Ar. Barnerias)
	15100 - 18100	UNIDO Guidelines: Application of methodole- gy at the project level (Mr. Barneriae)
Pobruary 6	91 10 - 12131	UNIDA duidelines: Application of methodology at the planning level (%r. Barnerias)
	15:00 - 18:00	Calculation of national parameters (Gr. Assen, UN RGA)
Polymery 1	9100 - 12100	UNIDO Guidelines: Chemical Plant (Mr. Barnerias)
	15:00 - 18:00	Country experience in project properation and evaluation (Participents)
Potrusy 6	9100 - 12100	Studios of industrial projects submitted by Governmente: Rugar plant (Necess. Barnerias, Babrens, Necessar)
	15:00 - 18:00	Sugar plant: (continued)

Pebruary 9	7:00 - 18:00	Plant visit: sugar refinery and pulp and paper plant, near Nasareth
February 11	9:00 - 12:00	Sugar plant: (continued)
	15:00 - 18:00	Continuation of the country experience in Industrial Performance "Valuation Profiles - cement industry (Yr. Behrens)
February 12	9:00 - 12:00	Studice of industrial projects submitted by Governments: Shoe factory (Messrs. Assam, Barnerias, Behrens)
	15:00 - 18:00	Shoe factory (continued)
February 13	9:00 - 12:00	Studice of industrial projects submitted by Governments: Tin can factory (Mesers. Barnerias, Behrens, Hocevar)
	15:00 - 18:00	Tin can factory (continued)
February 14	9:00 - 12:00	Closing session: General discussion and eumary of the Workshop

LIST OF PARTICIPANTS

MITIOPIA

Mr. Tsegay Afework
Loan-Officer
Agricultural and Industrial Development Bank
P. C. Box 190.
Addis Ababa

Mr. Adhanom Borhane Statistics Officer Agricultural and Industrial Development Bank P. C. Box 1900 Addis Ababa

Mr. Liyew Desta Junior Economist Planning Commission P. O. Box 1937 Addis Ababa

Mr. Bekele Girma Industrial Expert Ministry of Commerce, Industry and Tourism P. O. Box 1769 Addis Ababa

Mr. Yacob Kiros Junior Expert Planning Commission P. O. Box 1037 Addis Ababa

Mr. Abraham Makonnen Loam Officer Agricultural and Industrial Development Bank P. O. Box 1900 Addis Ababa

Mr. Tossens Makonnen Chemical Engineer Ministry of Commerce, Industry and Tourism P. O. Box 1769 Addis Ababa

EMTIOPIA (cont'd)

Mr. Woldu Mathewos Research Officer Agricultural and Industrial Development Bank P. C. Box 1900 Addis Ababa

Mr. W. Yohannes Taddesse Industrial Expert Ministry of Commerce, Industry and Tourism P. O. Box 1769 Addis Ababa

Mr. Yohannes Tesfald.t Industrial Expert Ministry of Commerce, Industry and Tourism P. O. Box 1769 Addis Ababa

MALAWI

Mr. Thomas Oswald Bernard Kanyuka Project Manager Malawi Development Corporation P. O. Box 566 Blantyre

MICHRIA

Mr. Ahmed Bashari Trade Officer Ministry of Trade and Industry Kano

Mr. Ageu Anya Sconomist (Industries) Ministry of Economic Levelopment Enugu

Mr. Festus N. Ngochindo Senior Planning 'fficer Ministry of Economic Development Port Harcourt

SMAZILAND

Mr. Gilbert F. Dhlamini Managing Director SEDCC P. O. Box 451 Mahana

Dr. S. T. N. Sukati Executive Chairman National Industrial Development Corporation P. O. Box 866 Values UGANDA

Mr. Alfred Mathias edinya Assistant Secretary Vinistry of Industry P. C. Box 7000 Kampala

Mr. Mulosi jok Senior Executive Uganda Development Corporation P > Box 3/25 Kampala

united republic op tanzania Mr. Abanso J. Buteng'e Planning Officer National Development Corporation P. O. Box 2669 Dar-ee-Salass

Mr. Serve Ambrose Halai Industrial Engineer INDUSTRE P. O. Box 2650 Der-es-Salaam

Mr. Bernard S. Hohomvu Industrial Officer Ministry of Commerce P. O. Box 9503 Dar-es-Salann

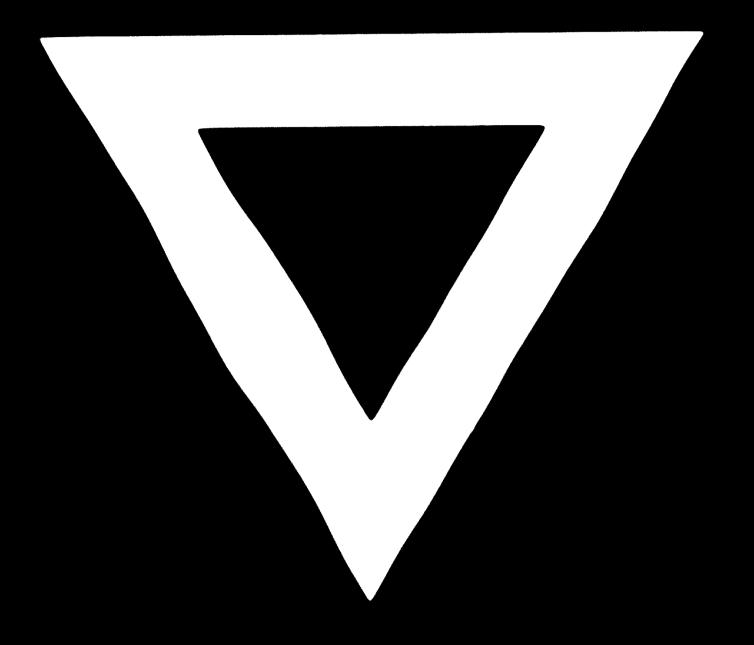
Mr. Mbones Yonasa Msemo Project Officer Tansanian Investment Bank P. O. Box 9373 Dar-es-Salaam

Mr. P. J. V Wasyunga Project Officer Tansanian Investment Bank P. O. Box 9373 Dar-es-Salasm

Mr. Peter J. Ngumbullu Boonomist Ministry of Boonomic Development and Planning P. C. Box 9242 Dar-es-Salaan

MINI

Mr. Simon Brnost Chiloshe Assistant Project Officer Ministry of Mines and Industry P. O. Box 1969 Lucaka



76.06.30