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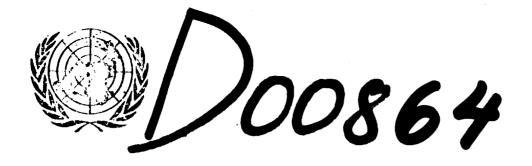
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SMALL-SCALE INDUSTRY.

AN ACCOUNT OF TANZANIA'S EXPERIENCE, PLANS AND INTENTIONS

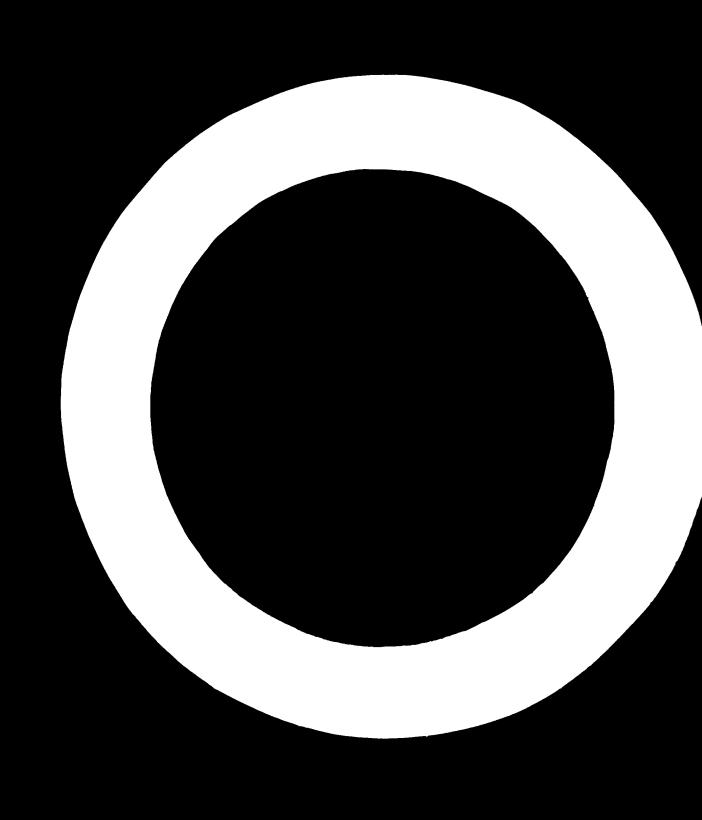
IN THE FIELD OF SMALL-SCALE INDUSTRY AND EXTENSION SERVICES 1

by

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INDUSTRIAL STUDIES AND DEVELOPMENT CENTRE

SMALL SCALE INDUSTRY

An account of Tanzania's experience, plans or intentions, in the field of small scale industry and industrial extension services:-

Background

Industries are an integral element in the social-economic structure at all stages of a country's development. Industrial development extends employment epportunities, raises incomes and the standard of living of the people, and helps to create a belanced economy. The development of small scale incustry is as vital to the progress of developing countries as the development of large industry. It is with these considerations that the government of Tanzania has come to attach a special importance to the growth and development of small scale industry. In the overall industrial target as simed by the Second Five Year Plan (period 1965/70 - 1974/75), plants categorised as small scale account for three fifth of the projected new plants, Is per seen of the proposed investment and will generate roughly 10 per cent of the resulting output, and account for about 15 per cent of the expected employment.

In 1965, hardly a year efter Tanzanio's first comprehensive and long ' τ term plan, "Five Year blan for Economic and Social Development", the significance of developing Small Scale Industries alongside with industry in general and rausing the standard of skill of the people as a whole was repliced. To this effect the emission was corrected and plan for an accelerated development of emall scale industries in Tanzania was propored by the Ministry of Industries, Mineral Resources and fower and later incorporated in the 'five Year Plan.'

Definition

A small industry, in the Tanzanian context, is a manufacturing unit of up to 25 persons working together, some as employers and some as employers, with a capital of, up to say 500,000 Tz. Shillings.

Importance

The importance of developing small scale industries could only be visualized in terms of the problems existing in industrialization.

These were:-

- i) Economic problems
- ii) Technical problems
- iii). Financial problems
 - iv) In 'ra-ciractural arrangements self explanatory
 - v) Social problems
 - vi) Cultural problems
- i) Economic problems Meeting market meeds in terms of price, quality, quantity, design trade terms and distribution methods.
- ii) Technical problems Low standard of skill, stereotype designs, obsolete technology and outdated plant and equipment.
- financial Problems Lack of sufficient working conital, costing, budgetary occurred and binancial populating errongements.
- Social Problems Wage and income differentials as between employees and employees on one hand, and urban and rurel workers on the other and bipsuitable working conditions.

vi) Cultural problems such as changing trends - numy from the traditional handicrafts towards feeder industries to supply medium industries with components.

In the early stages of industrial development, the measures taken towards developing small-scale industries were by way of identifying in the Plan for "Accelerated Development of Small Scale Industries" solient proposals and trends to be taken in order to attempt to defeat participant problems.

Orjectives of the "Accolerated Development of Small Scale Industries" -

- i) To create an agency which will mesume the direct authority and responsibility for the devolopment of Small Scale Industries;
- 21) To provide this agency with adequate funds and personnel of the right calibre for its purpose.
- iii) Through this againsy to provide existing or prospective entropronours with the necessary information, assistance facilities (in the forms of accomplation and common plant and equipment), and participation in the equity capital not only initially to encourage them but also permanently to support them in their enterprises.
- iv) To ensure that the Ministry of Industries, Mineral Resources and Power is suijably geared to this development to be able to continue to provide the necessary guidence and assasiance.
- that the development of cottend intrough the above agency rural areas should be embraced in the overall programme
 and it was primarily with this and in view that the Ministry's
 Cottage Industrial Training Centre, which is already in

Cottage Industries Training Centre

Longtion - Der es Salaam

Date of communement - 1937

carpentry and everying. A first batch of 13 traineds from all parts of the country, sponsored by the local councils underwent training under the supervision of a Japanese Expert and accided by a lacel counterpart trained in Japan. In the course of their training some articles produced were widely appreciated and this created a nucleus around which the development of the bambee industry could be geared. The traineds after completion of their course (1 year's duration), using groups of local artisans to initiate a continuous dissemination of new techniques. Fraining in the other crafts mustioned above was started shortly afterwards.

At present training in handloom vanving, woodwork, smithly and shedtmetal work is being conducted under the supervision of experts from India who have even seconded to the government of Tanzania under SCAAP arrangements; and whereas the government of India is responsible for their calary and government provides accommodation and position allowances.

Handloom weaving

18,000 Tz. Shs. worth of handlooms and accessories gifted to the government of Tanzania by the government of India have proved very useful over the last 2 years. There are 10 fly-shattle frame loom with lever system of sheding, winding charkla, warping machine, jacquard - 200 hooks and Dobby - the details on size and specification are as in appendix I.

With the available equipment a class of up to 15 can be accommodated, although the largest class up to now has only been 10 trainees - present number of trainees is 15.

Smithy and Sheet-metal Work

Details on machinery and equipment as in appendix II. The present number of trainees in this trade is 14.

Woodwork

Details on machinery and equipment as in appendix III. Present number of trainees is 10.

Bamboo Work

Details on machinery and equipment as in apcondix IV. Present number of trainces is 5.

Cottage Industries - Place

- 1. From the very start, the Ministry of Industries, has in their plan establishment of six cottage industries training centres under state control. These training centres were to be set up in up-country stations like Mbeya, Tanga, Mwanza and Mtwara with facilities for admitting ultimately 330 artisans every year in different trades.
- 2. A project to assist the Monrovian church in setting up a centre at Tabora with training facilities for 45 trainees and a saw mill as service centre was by 1968 finalized.

3. Promotional activities

- a) Establishment of mers Industrial Workshops aquipped with common service facilities at Singida, Usangi, Shinyanga, Rungwe, Tanga, Arusha, Sengea and Bukoba to devalop and promote metalwork carpontry work, Bamboo work and Pottery etc. according to local needs.
- b) An Industrial Estate for 20 small and medium units at $\mathbf{D_{ar}}$ es Salaam equipped with an electroplating shop and heat treatment shop.

MATIONAL SMALL INDUSTRIES SOFTWARM LINE

Location Dar es Salaam,

Sommencement - End of 1967

Authorized Capital £80,000 i.e. 1,600,000 Tz. Sha.

Equity 80% Mational Development Corporation 20% Workers Development Corporation

Staff: 1) Managerial - l expetriate from India 2)

Professional - 1) Motal work Instructor 1 Local ii) Wood "

1.

iii) Sales Staff * iv) Accounts starr

Σ # Supervisory staff v)

FUNCTIONS OF THE WATIONAL SMALL INDUSTRIES CORPORATION LTD.

- Promotive functions
- Commercial functions Β.
- Administrative functions

Promotive Functions

- Training through cottage industry centre in Dar os Salaam and introduce the same system in the regions, where as mentioned, trainers completing their exercises would be engeged. Also included in the general training is Business Management and Book-keeping.
- Industrial Workshops and Common facility shops in trades like: Handloom weaving, Bamboo work, Pettery, Smithy and
- Industrial Estates comprising large medium and small units. iii) 1v)
- Supplies to Covernment Depots Through artisans workshops.
- Marketing of artisans products; through existing channels. And organised marketing through show rooms.

Commercial functions

- i) Marketing
- Supply of raw materials i:)
- Hire-purchase of machinery
- iv) Financial participation in projects

C. Administrative Functions

- i) Regulatory and self-apprisal
- ii) Finance and accounts
- iii) Establishment and general administration

The National Secold Industries Corporation established in 1967 a complex of Industrial workshops at Kisarawe street, Dar es Salaam.

140 industrial workshop units (each unit measuring 12' x 10') rented to bonafid: artisans at a nominal monthly rent of Sha.30.00. These units were occupied by 360 artisens i.e. (20) wood workers and 160 shoot metal workers) - number of artisans has now risen to 400.

- b) A Common Facility Workshop in Wood work with up to date machines, to be used by workshop artisans at nominal payment. This has proved quite useful especially in decreasing considerably the production times. A similar shop in metal work has also been erected.
- c) Raw materials bought in bulk and being supplied to artisans at neminal rates.
- d) The artisans have been trained to use the machines and equipment installed in the Common Facility Shops under the supervision of a wood and sheet metal expert lent to us by the Government of India under the SCAAP (Special Commonwealth African Assistance Programme).
- a) A scheme of hire-purchase has also been formulated and introduced. Under this scheme entrepreneurs are able to procure machinery on payment of 20% of the price of machines, through the National Small Industrial Corporation. The 20% balance being payable over a period of 5 years in Dar es Salaam, 7 to 10 years in other parts of the country depending on the level of their economy.
- f) A link with large buyers in the country, (e.g. parastatal organization and government departments), has been formed to obtain large orders of wood and metal work items for execution through the small artisans. This is to ensure production of quality at competitive costs and to solve marketing problems.

NATIONAL ARTS OF TANZANIA LTD.

In March 1970 the first subsidiary company of the National Small Industries Corporation, the National Arts of Tunzania Ltd., was incorporated. This subsidiary will function as a national channel for the export of quality wood-carvings to the oversean markets so that the sale of our world-famous carvings is promoted as a genuine Tenzanian product, and further the wood carvers' cooperative societies can participate directly in the advantages of such a national channel.

APPENDIX I.

REED SPACE IN INCHES		Qty.
		L) T 17
68		1
56	***********	1
54		3
52		
	-	3
36	1	2
18		
	+	1
		1
-		
	54 52 36	54 52 36

APPENDIX II.

	LIST OF MACHINES FOR WO	DD VOR	LIKG		
(1)	Band Saw Machine 18" - one	Sha	4600/-		
(2)	Circular Saw Machine 12" - one	Sha	3100/-		
(3)	Double Ended Grander 8" - one	Shs	1000/-		
(4)	Martising Machine $\frac{30}{4}$ capacity - one	Shs	58 00/-		
(5)	Thickiness Planang Machine 12" - one	Shs	6400/-		
(6)	Jainter Planing Machine 9" - one	Shs	3400/-		
(7)	Wood Turning Table - 36 one	Sha	2500/-		
	•	Total	30000/-		
Hand tools one set Shs. 500/-					
If 20	O Mos set required then	Shs	. 1000/-		
• • • • • • • • • • • • • • • • • • •		****	40,000/-		
		_			

APPEEDIA. III
LIST OF MOLERE PRACTICAL BLOCK SMITHY & SHRETTETAL

s. 210	Description of Tools	Qty	Approx Cost		
]4	Hand Rlower 18" Dic Anvil 112 1b Hand Fiede 45 1h 3/ long Floque Hammer 7 1b Hall Pan Hammer 2 1b Hall Pan Hammer 1 1b Cross Pan Hammer 1 1b Square Fact Hammer Creasing Hammer Flat Tongs Hollow Bit Tongs Square Section Tongs Hound Bige Planters Flattener Side Cutter	1 HM 1 HM 1 HM 2 HM 1	350.00 360.00 125.00 15.00 25.00 5.00 4.50 15.00 6.00 8.00 10.00 12.00 25.00 20.00 15.00		
18. 19 20 21 22 23 24 25 26 27 28. 29. 30. 31 32 33. 34 35	Hot cutting Chisel Top & Bottom Swaging Tools V. Block Bottom Tools Hand Grinding Tachine Hand Shearing Hachine Spreaders Hack Saw Frame (Adjustable) hound Fancher set " to 1" Scale 24" Folded Out side in Side Calipers 8" Divider 12" Scriber 12" Center Funch:O Ships Straight Covved Ships Hand Vice 12" Jaw Grooving Set " to 12 Wooden Hallet "Round" Soldening Iron "Straight Copper Bit 12 oz	1 HM 1 Set 1 HM	15.00 140.00 40.00 150.00 350.00 7.00 15.00 25.00 15.00 15.00 25.00 15.00 15.00 10.00 30.00 25.00		
38 39 6 40 6 41 142 143 14	Stake Half Moon Hatchet Stake Creasing Stake Comp elet set of file: such as 2nd cut, smooth & Half Round 12" Rivet Set " to 1" Rivet Sr , " to 1" Pliers Hiscellaneous	1 HM 1 HM 1 Set 1 Set 2 HH	1360.00 50.00 75.00 100.00 80.00 15.00 15.00 25.00 100.00		
	GRAFT TOTAL 4,121.00				

BAMBOO CECTEOR

LIST OF MACHINERY AND MARLTOOLS

(A) MACHITERY.

(1) (2) (3) (4) (5) (6) (7) (8)	Round Stick Musing Nachine. Rolling type Polishing Mechine. Bamboo mat massing machine.
(9)	Bamboo Hug & Cup making machine.

The above mentioned list of machinery can be obtained from Greenesta Technical Co-operation Agency, (OTCA) JAPAL.

MANUFACTURES: --

- (a) Takahashi Bamboo & Rattan Processing Machinery Company Ltd., Takabayashi Cuuna JAPAN.
- (b) Sato Bamboo & Patuan Processing Machinery Company Ltd., JAPAN.

	(B) HAMDTOOLS		PRICE PE	R UFUT
1.	Scraping Tool	Each	Shs. 15	Cent 00
2.	Big Knife	11	7	00
3.	Middle Size Knife	11	5	00
4.	Small white	11	4	0 0
5.	Width Sizing Knives (one pair)	91	3	0 0
6.	Cuppy knife	11	10	00
7.	Shapping knife	11	6	00
8.	Bamboo Neddle knils	99	6	ÕÕ
9.	Bamboo Ladle	**	2	00
10.	Not Truly	**	10	C (C)
11.	Gimlet filat	11	3	00
12.	" Triangle	**	3	₽೨
13	" Square	**	2	00
14.	Iron Hammer	**	5	00
15.	Tong	**	Ť	00
16.	Divisor	99	10	00
17.	In slue Callipare	71	7	50
18.	Out-Siac Callipers	••	Ť	00
19.	Hair Tweesers	**	4	OC
20.	Round Stick (Higo) Maker		20	CO
21.	Chisel	"	2	50
22.	Hana Press	P1	150	00
23.	fiend Spatter	Ħ	60 .	00
_	G. Glamp	11	5	00
24.	Fl t Prising Tool	**	ź	00
25. 26.	Scholors	41-	15	00
		•	370	. 00



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