



TOGETHER
for a sustainable future

OCCASION

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



TOGETHER
for a sustainable future

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.

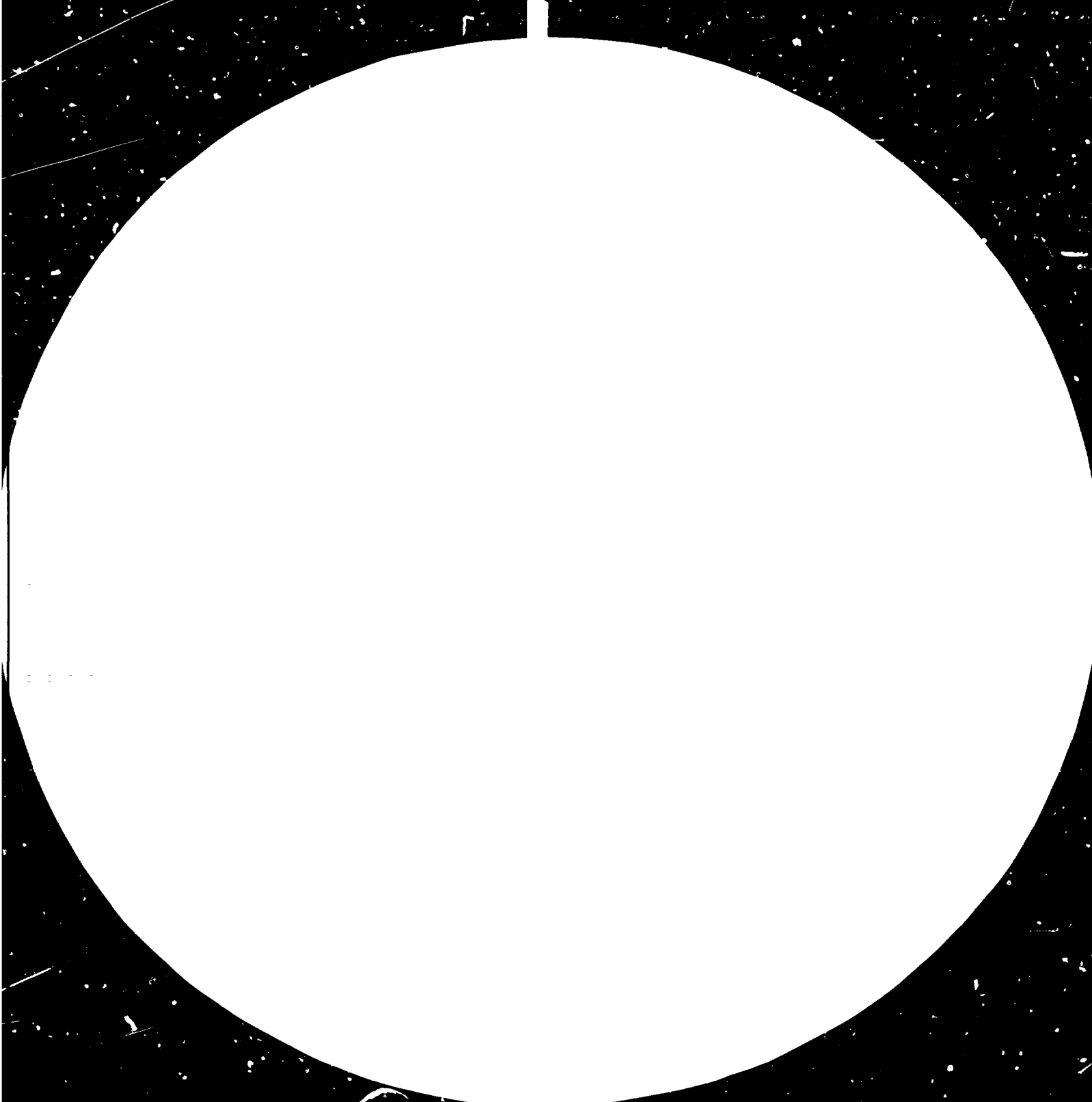
FAIR USE POLICY

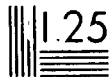
Any part of this publication may be quoted and referenced for educational and research purposes without additional permission from UNIDO. However, those who make use of quoting and referencing this publication are requested to follow the Fair Use Policy of giving due credit to UNIDO.

CONTACT

Please contact publications@unido.org for further information concerning UNIDO publications.

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





Resolution Test Chart (NBS 1963-A) (ANSI Z39.18-1983)

Resolution Test Chart (NBS 1963-A) (ANSI Z39.18-1983)



10185



United Nations Industrial Development Organization

Distr.
LIMITED
ID/WG.330/37
17 December 1980
ORIGINAL: ENGLISH

Meeting on Exchange of Experiences and
Co-operation among Developing Countries in the
Development of Agricultural Machinery Industry
Beijing, China, 20 - 27 October 1980

COUNTRY PAPER - SOMALIA*

by

Ahmed Mohamed Aden**

and

Ahmed Samater Farah***

501005

* The views expressed in this paper are those of the authors and do not necessarily reflect the views of the secretariat of UNIDO. This document has been reproduced without formal editing.

** Agricultural Machinery Engineer, State Organization for Agricultural Machinery, Mogadiscio.

*** Manager, Agricultural Machinery, State Organization for Agricultural Machinery, Mogadiscio.

80-46844

Somalia, a country with a great agricultural potentiality, has a cultivable area of 8,000,000 hectares, out of which about 1,000,000 hectares has been cultivated.

As such, the demand for modern agricultural machinery is great and emphasis are being put for Somalia to become self-sufficient in food production by the early nineties. To be able to achieve this target, it is very essential to strengthen animal-drawn equipment and as well as modernizing the agricultural sector. The following is the need for the coming five years:

I. SIMPLE IMPLEMENTS:

(a) Hand tools:

1.	Hoes.....	100,000 Pieces
2.	Shovels.....	100,000 Pieces
3.	Fork, weed.....	50,000 Pieces
4.	Spades.....	50,000 Pieces
5.	Rakes.....	20,000 Pieces
6.	Shears, big.....	10,000 Pieces
7.	Drain scoopes.....	20,000 Pieces
8.	Wheel Barrow.....	50,000 Pieces
9.	Picks.....	100,000 Pieces
10.	Hammers.....	100,000 Pieces

(b) Animal-drawn equipment:

1.	Animal drawn ploughs.....	5,000 Pieces
----	---------------------------	--------------

II. INTERMEDIATE MACHINERY:

1.	Moulboard ploughs.....	2,000 Pieces
2.	Disc.....	1,800 Pieces
3.	Disc Harrows.....	1,500 Pieces

4.	Ridgers or Disc Bedder.....	300 Pieces
5.	Weeders.....	100 Pieces
6.	Planters (various crops).....	150 Pieces
7.	Sprayers Trailed or Tractor-mounted 500 - 1,000 litres capacity.....	200 Pieces
8.	Sprayers-motorized (portable).....	800 Pieces
9.	Sprayers-knapsack (manual).....	2,000 Pieces

III. POWERED MACHINERY:

Light Machinery -

1.	Wheeled tractors 80-90 HP 4-wheel drive....	1,000 Pieces
2.	Wheeled tractors 120-140.....	500 Pieces
3.	Agricultural trailers 4-5 ton capacity....	250 Pieces
4.	Tillers (Powered).....	200 Pieces
5.	Irrigation Water Pumps (complete) 12-80 HP.....	1,000 Pieces

IV. SPECIALIZED EQUIPMENT:

(a) Heavy Machinery:

1.	Crowled Bulldozers 100-180 HP.....	1,000 Pieces
2.	Crowled Tractors 120-140 HP.....	800 Pieces
3.	Trailed Scrapers 8-10 M ³ capacity....	600 Pieces
4.	Moto-graders 100-140 HP.....	200 Pieces
5.	Crowled excavators 0.75 M ³ Bucket capacity.....	30 Pieces
6.	Wheeled Excavator 0.75 M ³ Bucket capacity.....	20 Pieces
7.	Combine Harvesters (for rice, maize, cotton and sorghum).....	100 Pieces
8.	Threshers (for maize and sorghum).....	600 Pieces

In view of the fact that Somalia is rich in livestock, the Somali farmer is well-versed in the use of the traditional animal-

drawn implements as well as hand tools. However, the simple farmer needs to be trained and oriented in the use of powered and specialized agricultural machinery/equipment, and this is being achieved by the gradual efforts of the extention Department of the Ministry of Agriculture as well as Machinery and Agriculture Services Agency (ONAT).

The bulk of the modern machinery is at present used in the State Projects and farms as well a co-operatives.

The foregoing machinery/equipment status, as far as manufacturing (local) and imports are concerned can be summarized as follows:

1. Simple tools and implements are being manufactured locally by private blacksmiths as well as Somali Government/UNIDO Foundry and Mechanical Workshop established in 1975. However, this Foundry needs to be strengthened and enlarged to cope up with the increasing demand both in technical know-how and equipment.
2. Intermediate, powered and specialized equipment/machinery are imported from abroad, but feasibility studies are being considered for their manufacture in the future in this country. Engineering and manufacturing technology studies are under study; however, in the meantime, the Machinery and Agriculture Services Agency (ONAT), responsible for the hiring and repair of agricultural machinery must be strengthened (training of technicians and provision of suitable workshop equipment) in order to be able to cope up with vital job of repair machinery and maintenance.

Somalia Government/UNIDO Foundry + Mechanical Workshop can serve as the base for future agricultural machinery/equipment, if suitably strengthened.

Regarding policy, planning and co-ordination matters, these are being executed as follows:

1. Agricultural machinery policy and planning are jointly undertaken by Ministry of Agriculture and Ministry of National Planning.
2. There is an inter-ministerial (Ministry of Industry and Ministry of Agriculture) working group to co-ordinate matters relevant to agricultural machinery repair industry. The main constraints in this field are higher technician training and enlargement of existing foundry/repair facilities in support of agricultural machinery/equipment use.

For the time being, Somalia cannot give assistance to other developing countries in respect of agricultural machinery/equipment manufacture, but other agricultural experiences can be shared. In the same way, other developing countries can assist Somalia in the fields of technical training and know-how, if more advanced than Somalia.

UNIDO has a great role to play in Somalia and can provide essential assistance in the following fields, which have been already requested:

1. Technical advise
2. Strengthening engineering infra-structure
3. Advise on co-ordination, dissemination and industrial planning.

In order to make use of the cultivable land and reach self-sufficiency in basic food production, Somalia badly needs assistance in the following fields in connection with agricultural machinery:

1. Advise on standardization of machinery
2. Feasibility studies in intermediate and power machinery industry.
3. Strengthening extending repair and maintenance facilities.
4. Training technicians locally as well as abroad.



