



**TOGETHER**  
*for a sustainable future*

## OCCASION

This publication has been made available to the public on the occasion of the 50<sup>th</sup> 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](mailto:publications@unido.org) for further information concerning UNIDO publications.

For more information about UNIDO, please visit us at [www.unido.org](http://www.unido.org)

22371

## **FINAL REPORT**

**ON**

**OPERATIONS MANAGEMENT FOR ENGINEERS FROM METALLURGICAL AND  
ENGINEERING INDUSTRIES IN COMESA COUNTRIES**

**Jointly Organised by:**

**THE UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANISATION (UNIDO)**

**And**

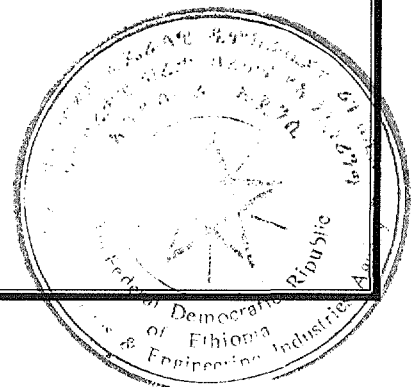
**THE COMMON MARKET FOR EASTERN AND SOUTHERN AFRICA  
(COMESA)**

**Hosted by**

**THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA  
THE BASIC METALS AND ENGINEERING INDUSTRIES AGENCY**

**Venue: ETHIOPIAN QUALITY AND STANDARDS AUTHORITY**

**Dates: APRIL 3 – APRIL 20, 2000**



# **Final Report on the Workshop on Operations Management For Engineers from Metallurgical and Engineering Industries in the Common Market For Eastern and Southern Africa**

## **1. Introduction**

This final report is prepared in line with Contract No. – 2000/064P between The United Nations Industrial Development Organization (UNIDO) and The Basic Metals and Engineering Industries Agency (BMEIA) for Project No. US/RAF/96/193 for hosting a Workshop on Operations Management For Engineers from Metallurgical and Engineering Industries in the Common Market For Eastern and Southern Africa.

The Workshop was attended by 55 participants drawn from different metallurgical industries was successfully carried out from April 3, to April 20, 2000 at the Ethiopian Quality and Standards Authority.

The final report covers the work performed in accordance with paragraph 2.01 of the contract. The final list of participants at the workshop is also submitted as an attachment to this report.

## **2. Performance of Work**

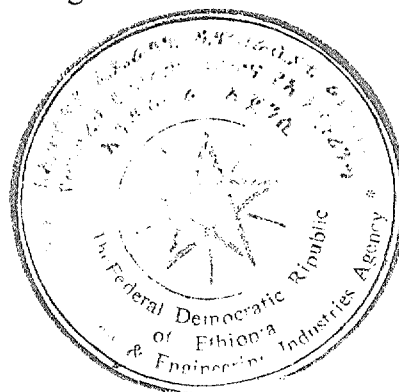
In hosting the workshop the BMEIA has provide the following services:

### **2.1 Venue**

The venue for the workshop was the Ethiopian Quality and Standards Authority and was sub-contracted by BMEIA. The main auditorium of the Authority was used for the opening and closing ceremonies of the workshop. Other three halls with the necessary audiovisual equipment were used for the lectures and group discussions.

### **2.2 Provision of Lunch, Morning and Afternoon Teas**

Lunch and morning and afternoon teas were served to all the 55 workshop participants, resource persons and other supporting staff.



### **2.3 Secretarial and Photocopying Services during the workshop period**

Two secretaries equipped with computers and a photocopying operator and two photocopying machines were used to provide the necessary secretarial and photocopying services. All stationery materials required for the workshop have been also provided.

### **2.4 Provision of necessary audio-visual facilities during the workshop**

The lecture halls were equipped with modern sound system and slide projectors, flip charts, computer desktop projectors, and photo-slide projectors were provided to the different resource persons during the workshop.

### **2.5 Transportation Services**

Transportation services has been provided for expatriate participants to and from airport, to and from hotels and venue of workshop and for all the workshop participants during plant visits to Akaki Spare Parts and Hand Tools Factory (ASPF) and Ziqualla Steel Rolling Mill (ZUSRUM).

### **2.6 Management of workshop and support staff**

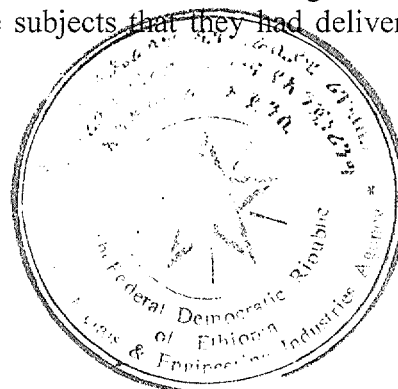
The Basic Metals and Engineering Industries Agency (BMEIA) has assigned the following staff to manage the workshop:

1. Mr. Zeki Adus, Technical Services Director;
2. Mr. Abebe Girmay, Technology Dissemination and Technical Consulting Group Head;
3. Dr. Tamene Abebe, senior Engineer.

BMEIA has also assigned six of its employees as support staff for the successful completion of the workshop.

### **2.7 Provision of Services of 10 man-days of national experts**

The BMEIA had selected 4 local experts to deliver lectures during the workshop. The names of these National Experts and the subjects that they had delivered are given below:



S/N	NAME OF EXPERT	SUBJECT
1	Dr. Demiss Alemu	Vibration Analysis, NDT Maintenance Applications
2	Dr. Abiy Aweke	Occupational Health and Safety
3	Mr. Tadesse Woldeyes	Reheat Furnaces, Principles of Heat Treatment
4	Mr. Arega Tesfaye	Financial Management

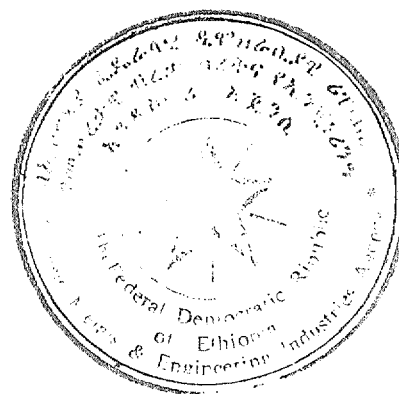
A fifth national expert was provided out of the scope of the contract to give lectures on “Cleaner Production” in replacement of the expatriate expert Mr. Manyama who asked an excuse for not being able to be present on the workshop due to other pressing assignment.

### **3. Conclusion**

The Basic Metals and Engineering Industries Agency (BMEIA) has rendered, on the terms and conditions set forth in the contract, all the services and facilities necessary to carry out the contract and, in particular, the work as detailed in the UNIDO Terms of Reference dated 18 February 2000 and conforming to the methodology, approach and work plan set forth in the proposal dated 21 March 2000.

We would like to thank The United Nations Industrial Development Organization (UNIDO), The Common Market For Eastern and Southern Africa (COMESA), The Government of Australia and all the rest who have contributed for the successful implementation of the workshop.

The list of the participants of the workshop is attached herewith.



**OPERATIONS MANAGEMENT FOR ENGINEERS FROM METALLURGICAL  
AND ENGINEERING INDUSTRIES**

**FINAL LIST OF PARTICIPANTS**

<b>No.</b>	<b>Name</b>	<b>Organization of the Participant</b>	<b>Module</b>
1	Samuel W/yohanes	Addis Metal Pressings Enterprise	Maintenance Mgmnt.
2	Solomon Kebede	Addis Metal Pressings Enterprise	Maintenance Mgmnt.
3	Mengistu Tefera	Akaki Metal Products Factory	Maintenance Mgmnt.
4	Solomon Abrha	Akaki Metal Products Factory	Maintenance Mgmnt.
5	Yosef M. Brhan	Akaki Metal Products Factory	Maintenance Mgmnt.
6	Lema Makonnen	Akaki Spare Parts Factory	Maintenance Mgmnt.
7	Mohammed Siraj	Akaki Spare Parts Factory	Maintenance Mgmnt.
8	Terefe Zewde	Akaki Spare Parts Factory	Maintenance Mgmnt.
9	Wondwosen Desta	Akaki Spare Parts Factory	Maintenance Mgmnt.
10	Adugna Begna	Ethiopian Iron & Steel Foundry	Maintenance Mgmnt.
11	Assaminew W. Mariam	Ethiopian Iron & Steel Foundry	Maintenance Mgmnt.
12	Milion Zewde	Ethiopian Iron & Steel Foundry	Maintenance Mgmnt.
13	Zerihun Areru	Ethiopian Iron & Steel Foundry	Maintenance Mgmnt.
14	Fasil Zemene	Hormat Engineering Complex	Maintenance Mgmnt.
15	Girma W/Michael	Hormat Engineering Complex	Maintenance Mgmnt.
16	Kirkos Gebreab	Kaliti Metal Products Factory	Maintenance Mgmnt.
17	Bisrat Tesema	Kolfe House Hold Utensils Factory	Maintenance Mgmnt.
18	Efrem Tamene	Kombolcha Steel Factory	Maintenance Mgmnt.
19	Kibur Getachew	Kombolcha Steel Factory	Maintenance Mgmnt.
20	Belayhun Getachew	Kotebe Tools Factory	Maintenance Mgmnt.
21	Zeleke Ashenafi	Kotebe Tools Factory	Maintenance Mgmnt.
22	Chenu Habte	Leather & Leather Products Institute	Maintenance Mgmnt.
23	Sintayehu Abate	Maru Engineering Indstry PLC.	Maintenance Mgmnt.
24	Seyfemichael Ketta	Mesfin Industrial Engineering	Maintenance Mgmnt.
25	Mesele G/Mariam	Zuquala Steel Rolling Mill	Maintenance Mgmnt.
26	Tsegaye Desta	Zuquala Steel Rolling Mill	Maintenance Mgmnt.
27	Daniel Tekle	Akaki Spare Parts Factory	Melting & Casting
28	Abas Ahmed	Akaki Spare Parts Factory	Melting & Casting

29	Argaw Cheru	Akaki Spare Parts Factory	Melting & Casting
30	Belay Tadesse	Akaki Spare Parts Factory	Melting & Casting
31	Biniam karleto	Akaki Spare Parts Factory	Melting & Casting
32	Mekbib Ashenafi	Akaki Spare Parts Factory	Melting & Casting
33	Amera Kebede	BMEIA	Melting & Casting
34	Christopher G/Yohanis	BMEIA	Melting & Casting
35	Mesfin Gizaw	BMEIA	Melting & Casting
36	Shiferaw Amime	Ethiopian Iron & Steel Foundry	Melting & Casting
37	Yilma Tadelle	Ethiopian Iron & Steel Foundry	Melting & Casting
38	Embibel Tadesse	Hormat Engineering Complex	Melting & Casting
39	Temesgen Assefa	Hormat Engineering Complex	Melting & Casting
40	Ashebir Demeke	Mesfin Industrial Engineering	Melting & Casting
41	Ashenafi Kebede	Ethiopian Iron & Steel Foundry	Steel Rolling
42	Assefa Terefe	Ethiopian Iron & Steel Foundry	Steel Rolling
43	Getaneh Bekele	Ethiopian Iron & Steel Foundry	Steel Rolling
44	Girma Abera	Ethiopian Iron & Steel Foundry	Steel Rolling
45	Roba Haji	Ethiopian Iron & Steel Foundry	Steel Rolling
46	Tariku Birhanu	Ethiopian Iron & Steel Foundry	Steel Rolling
47	Abebe H/Eyesus	Kotebe Tools Factory	Steel Rolling
48	Lemma Rago	Kotebe Tools Factory	Steel Rolling
49	Kidane Hailu	Mesfin Industrial Engineering	Steel Rolling
50	Asnake Balcha	Zuquala Steel Rolling Mill	Steel Rolling
51	Daniel Tilahun	Zuquala Steel Rolling Mill	Steel Rolling
52	Getahun Ynursew	Zuquala Steel Rolling Mill	Steel Rolling
53	Kedir Seid	Zuquala Steel Rolling Mill	Steel Rolling
54	Nigussu Mitsilal	Zuquala Steel Rolling Mill	Steel Rolling
55	Wubshet Gugssa	Zuquala Steel Rolling Mill	Steel Rolling

