



**TOGETHER**  
*for a sustainable future*

## OCCASION

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Project No. US/INT/85/070

Contract No. 85/70

Final Report on Activities of  
eighth UNIDO-Workshop  
on Fertilizer Plant  
Maintenance

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Executing Agency: Chemserv Consulting GesmbH.  
Place of Training: Chemie Linz AG, Austria  
Period of Training: September 2 to October 25, 1985

Participants:

- Mr. Husein Abed
- Mr. Jamal Barghouthi
- Mr. A.M. Lashin
- Mr. Abu Bakr El Rayes
- Mr. Alfi Fekry
- Mr. Moustafa Abdo
- Mr. Isiah K. Chuma
- Mr. Bernard M. Mwange
- Mr. Stanislaus Nyamsika
- Mr. Jusri Minansyah

Training Programme:

1st week: September 2 - September 6, 1985

General information about Chemie Linz, hostel, shopping facilities,...

Slide report about Chemie Linz products and plants; official opening of the eighth UNIDO WORKSHOP ON FERTILIZER PLANT MAINTENANCE by Chemie Linz AG board director Mr. Burger and Chemserv Managing Director Mr. Lakmayer.

Training in safety department and visit to fire fighting equipment manufactures.

Meeting with instrument department.

2nd week: September 9 - September 14, 1985

Activities in job preparation department and central workshop.

Meeting with electrical department and maintenance department of phosphoric fertilizer plants.

Introduction to computerized material management department.

Study tour in- and around Linz.

3rd week: September 16 - September 20, 1985

Introduction to urea maintenance department and visit of urea plant.

Study visit to peat fertilizer plant at Salzburg.

Activities in ammonia maintenance department and nitrate fertilizer maintenance department; visit of ammonia plant and nitrate fertilizer plants.

Meeting with civil engineering department.

4th week: September 22 - September 27, 1985

The team was split up into several individual groups.

The training took place in the maintenance department of the urea plant, phosphat fertilizer plants and nitrate fertilizer plants.

Special instructions on balancing in electrical department.

Midterm review with UNIDO-authorities at UNO-City in Vienna.

Study visit to storage power plant Kaprun.

5th week: September 30 - October 4, 1985

Activities were set in the technical section of the urea plant.

Lectures and practical work took place in electrical department, material testing department, instrument department and job preparation department.

Introduction to design and engineering department.

Study visit to electric equipment manufacturer EBG.

6th week: October 6 - October 11, 1985

During this period the training activities were set in the technical section of the phosphate fertilizer plant, the material testing department, electrical department, instrument department and central workshop.

A lecture about preventive maintenance was held by our technical director Mr. Fink.

Study visits were arranged to salt mines and manufacturer Vöest Alpine.

7th week: October 14 - October 18, 1985

Lectures and practical work took place in the maintenance section of the ammonia plant, electrical department, instrument department, central workshop and maintenance department of phosphate fertilizer plants.

Study visit to the technical museum in Munich.

8th week: October 21 - October 25, 1985

The final week was spent in the technical section of the ammonia plant, phosphate fertilizer plant and nitrate fertilizer plants as well as in the electrical department and instrument department.

Study visit to pump manufacturer Ochsner.

Final meeting with participants on October 25, 1985.

Detailed financial statement for  
allowances, lodging, contingencies

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		1. Lodging \$ 170,-/day \$	2. 20% of allow. full board weekends \$	3. contingencies taxi, excess luggage \$
Mr. Husein Abed	54	9.180,--	28.220,--	1.545,--
Mr. Jamal Barghouthi	54	9.180,--	28.220,--	1.545,--
Mr. A.M. Lashin	54	9.180,--	28.220,--	800,--
Mr. Abu Bakr El Rayes	54	9.180,--	28.220,--	800,--
Mr. Alfi Fekry	54	9.180,--	28.220,--	800,--
Mr. Moustafa Abdo	54	9.180,--	28.220,--	800,--
Mr. Isiah K. Chuma	54	9.180,--	28.220,--	7.180,--
Mr. Bernard M. Mwange	54	9.180,--	28.220,--	7.180,--
Mr. Stanislaus Nyamsika	54	9.180,--	28.220,--	6.380,--
Mr. Jusri Minansyah	54	9.180,--	28.220,--	7.920,--
+ Ticket (Jakarta - Linz)		US\$ 1.450,--		27.115,--
	540	91.800,--	282.200,--	62.065,--

Total amount for 1., 2. and 3. .... S 436.065,--  
training fee ..... S 672.000,--  
S 1,108.065,--

Amounts to be transferred from

Unido to Chemserv

S 628.000,--

S 224.000,--

S 224.000,-- ..... S 1,076.000,--

Difference S 32.065,--