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II. TECHNICAL WORKSHOP FOR SELECTED STUDENTS FROM DEVELOPING COUNTRIES

Organized by the UNIDO-Czechoslovakia Joint Programme, Non-metallic Industries, Pilsen, in co-operation with Press Agency Orbis, Prague

from 15 to 16 February 1990

FINAL REPORT

This report has been prepared by:

UNIDO-Czechoslovakia Joint Programme, Non-metallic Industries, Pilsen

Pilsen, Czechoslovakia

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I. INTRODUCTION

The Technical Workshop for selected students from developing countries was organized as the second one by the UNIDO-Czechoslovakia Joint Programme, Non-metallic Industries, Pilsen[†], in co-operation with Press Agency Orbis, Prague, for students studying University of Chemical Technology and University of Agriculture in Prague.

The objective of the Workshop was to make the students from various developing countries acquainted with the integrated exploitation of non-metallic minerals and rocks, with the level of non-metallic industries in Czechoslovakia, with the production of beer in the famous Pilsen Brewery, and also with the role and activities of the UNIDO, the Joint Programme, Pilsen and the Research Institute for Ceramics, Refractories and Non-metallic Raw Materials, Pilsen.

Note: hereinafter called Joint Programme, Pilsen

II. PARTICIPANTS

25 selected students from 15 developing countries took part in the Workshop. Their list is presented in Annex I.

III. LANGUAGE

The programme was conducted in Czech and English languages.

IV. ORGANIZATION OF THE WORKSHOP

Organization of the Workshop was ensured by the staff of the UNIDO-Czechoslovakia Joint Programme, Non-metallic Industries, Pilsen.

1. Programme of the Workshop

The Programme of the Workshop (Annex II) comprehended industrial study visits to production plants on floor tile production (Ceramic Works, Chlumčany), kaolin mining and upgrading (Westbohemian Ceramic Works, Kaolin Washing Plant Kaznějov) and beer production (Pilsen Brewery, Pilsen). The visits were enriched by the discussions giving the participants opportunity to extend their knowledge and to exchange their opinions and experience with managers and technical staff in the production plants.

A lecture presented by Mr. Z. A. Engelthaler, Chief Executive of the UNIDO-Czechoslovakia Joint Programme, Non-metallic Industries, Pilsen during afternoon of the first day was intended on the activities of the UNIDO and the Joint Programme, Pilsen and on possibilities of a cooperation with various developing countries in the areas of ceramics, building materials and integrated utilization of non-metallic raw materials.

Mr. Z. A. Engelthaler informed the participants about possibilities to participate in future activities of the Joint Programme such as fostering of twinning arrangements, individual and group training programmes (study tours, seminars, meetings workshops, fellowships), testing of non-metallic raw materials, transfer of know-how and technologies to developing countries, energy management and conservation programme, environmental engineering and advanced ceramics programmes. The lecture was completed by round-table discussions.

2. Documentation and Aids

The following documentation and aids were handed over to each of the Technical Workshop participant:

- Technical Workshop Programme
- Multilingual vocabulary for ceramic industry and nonmetallic raw materials
- Cummulative list of the Joint Programme publications
- Bulletins, booklets and technical leaflets of the Joint Programme
- Technical publications of the Joint Programme various
- Publications and folder of the Research Institute for Ceramics, Refractories and Non-metallic Raw Materials, Pilsen

3. <u>Discussions</u>

The participants enriched their scope of knowledge during the discussions with the representatives who are mentioned in Annex III.

4. List of Locations of the Workshop

a) UNIDO-Czechoslovakia Joint Programme, Non-metallic Industries, Pilsen

- b) Ceramic Works, Chlumčany
 - Floor Tile Plant at Chlumčany
- c) Westbohemian Ceramic Works, Horrí Bříza
 - Kaolin mining area of Kaznějov
 - Kaolin Washing Plant at Kaznějov
- d) Pilsen Brewery, Pilsen

V. EVALUATION OF THE WORKSHOP

The Workshop offered the opportunity for selected students from developing countries to extend their experience and to upgrade their knowledge in the area of exploitation of non-metallic raw materials and also in the area of beer production. The participants got acquainted with the role of significance of UNIDO and the Joint Programme, Pilsen for developing countries. They were made familiar with the possibilities for cooperation between the UNIDO and their respective countries in the effective utilization of mineral resources. The participants expressed their gratitude to the Joint Programme, Pilsen for arranging the Workshop and they recommend to arrange reqular workshops and seminars for students from developing countries studying the technical universities in Czechoslovakia.

1.	Ms.	Nadia	Facher
	Afghanistan		

- 2. <u>Mr. Ermelindo Amadeu Pareira</u> Angola
- Mr. Lourenco de Soussa Angola
- 4. <u>Mr. Miguel Jorge Taxino</u> Angola
- 5. <u>Mr. Philippe Kora</u> Benin
- 6. <u>Mr. Eloy Fernandez</u> Bolivia
- 7. Mr. Abraham Imopoco
 Bolivia
- 8. Mr. Luis Vildozo
 Bolivio
- 9. <u>Mr. Afres Kassahun</u> Ethiopia
- 16. Mr. Wodayo Giorgis Ethiopia
- 11. Mr. Tseqaye Koji Ethiopia
- 12. <u>Ms. Isolina Acuña</u> Columbia
- 13. <u>Ms. Claudia Rodriguez</u>
 Columbia
- 14. Mr. Acela bavanino Cuba
- 15. <u>Ms. Bertilda Blandon</u> Nicaragua
- 16. Mr. Migues Florez
- 17. <u>Mr. Robert Acuy</u> Peru
- 18. <u>Mr. Carlos Torres</u>

 Peru

- 19. <u>Ms. Amal Muhamed Hadlol</u> Sudan
- 20. <u>Mr. Gordon Gomba</u> Zimbabwe
- 21. <u>Mr. Gravalos Joannis</u> Greece
- 22. Mr. Henry Calero R. Nicaragua
- 23. <u>Mr. José Antony Maltez</u> Nicaragua
- 24. <u>Ms. Lalatiana Mavosoa</u> Madagascar
- 25. <u>Mr. Helder Henriques Monteiro</u> Mozambique

PROGRAMME OF THE TECHNICAL WORKSHOP FOR SELECTED STUDENTS FROM DEVELOPING COUNTRIES

organized by the UNIDO-Czechoslovakia Joint Programme,
Non-metallic Industries, Pilsen in co-operation
with Press Agency Orbis, Prague

from 15 to 16 February 1990

PROGRAMME

of the Technical Workshop for selected students from developing countries from 15 to 16 February 1990 in Pilsen

Thursday	16/2	
9,00	Arrival of participants from Prague (by train)	
9,30	Departure for Chlumčany (by bus)	
10,00	In plant training:	Ceramic Works Chlumčany
	Ceramic Works Chlumčany	
	Manufacture of glazed and unglazed floor tiles,	
	manufactu:e of kiln furniture	
12,00	Round-table discussion and break for lunch	Ceramic Works Chlumčany
13,30	Departure for Pilsen (by bus)	
14,00	Lecture and floor discussion	House of the Scientific
	Activities of the UNIDO-Czechoslovakia Joint Programme, Non-metallic Industries, Pilsen and Possibilities of a Co-operation with Various Developing Countries	and Technical Society Pilsen
	Mr. Z. A. Engelthaler	
16,00	Round-table discussion	House of the Scientific and Technical Society Pilsen

16.30	Presentation of training video and audiovisual programmes	House of the Scientific and Technical Society	
18,00	Accommodation Motel Prokopávka and Sokol Bolevec	Pilsen	
Friday 1	<u>6 - 2 </u>		
7,00	Breakfast		
B,00	In-plant training:		
	Pilson Brewery, Pilsen - Production of Beer	Pilsen Brewery	
9,00	Departure for Kaznějov (by bus)		
10,00	In-plant training:		
	West Bohemian Ceramic Works, Horní Bříza	West Bohemian Ceramic	
	Kaolin Washing plant, Kaznějov	Works, Horní Bříza	
	Mining and Upgradin of Kaolin		
12,00	Round-table discussion and break for lunch	West Bohemian Ceramic Works, Horní Bříza	
19,30	Departure for Pilsen (by bus)		
14,00	Visit to the UNIDO-Czechoslovakia Joint Programme,	Joint Programme, Pilsen	
	Non-metallic Industries, Pilsen		
15.00	Round-table discussion	Joint Programme Pilsen	
16,00	Departure for Prague (by train)		

LIST OF DOCUMENTATION AND REQUISITES

handed over to each participant of the Technical Workshop:

- Technical Workshop Programme
- Bulletins and Booklets of the UNIDO-Czechoslovakia Joint Programme, Non-metallic Industries, Pilsen
- Publication and folder on the Research Institute for Ceramics, Refractories and Non-metallic Raw Materials, Pilsen
- Fechnical Leaflets and Cummulative List of the UNIDO-Czechoslovakia Joint Programme publications
- Multilingual vocabulary for ceramic industry and non-metallic raw materials

LIST OF REPRESENTATIVES DURING DISCUSSIONS

- Mr. Z. A. Engelthaler, Chief Executive of the UNIDO-Czechoslovakia Joint Programme, Non-metallic Industries, Pilsen
- Mr. J. Bruner, Trade Manager, Ceramic Works Chlumčany
- Mr. J. Fikrle, Assistant of Director, Ceramic Works Chlumčany
- Mr. J. Široký, Director of the Westbohemian Ceramic Works, Horní Bříza
- Mr. J. Mašek, Mining Technologi , Westbohemian Ceramic Works, Horní Bříza, Kaolin Washing Plant at Kaznějov
- Mr. J. Horák, Chief Technologist, Westbohemian Ceramic Works, Horní Bříza, Kaolin Washing Plant at Kaznějov
- Ms. E. Engelthalerová, Chief of Administration, UNIDO-Czechoslovakia Joint Programme, Non-metallic Industries, Pilsen
- Mr. F. Pecháček, Expert, UNIDO-Czechoslovakia Joint Programme, Non-metallic Industries, Pilsen
- Mr. M. Jarausch, Expert, UNIDO-Czechoslovakia Joint Programme, Non-metalllic Industries, Pilsen