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November 1987
ENGLISH

ASSISTANCE TO THE PETROLEUM TRAINING CENTRE SUMBE (KWANZA SUL)

DP/RAF/83/022

PEOPLE'S REPUBLIC OF ANGOLA

Report of the Project Technical Committee*
Sixth Meeting, 9 - 17 November 1987

Prepared for the Government of Angola
by the United Nations Industrial Development Organization,
acting as executing agency for the United Nations Development Programme

Based on the work of:

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United Nations Industrial Development Organization
Vienna

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**1. COMPOSITION OF THE PROJECT TECHNICAL COMMITTEE FOR THE SIXTH MEETING,
9 - 17 NOVEMBER 1987**

L. Brezula, UNIDO Consultant

H. Huber, UNIDO Consultant

J. Mohr, UNIDO Consultant

T. Russell, UNIDO Consultant

Also attending

M. Derrough, UNIDO Expert

**M. Kohonen, Purchase and Contract Services,
UNIDO**

M. Morganti Comerint

A. Lombardini

2. AGENDA OF THE SIXTH MEETING

The following agenda was adopted:

1. Follow-up of previous recommendations of the Project Technical Committee.
2. Consideration of the following documents:
 - (a) Report on Training Survey in the Republic of Malawi
 - (b) The Seventh Progress Report (May - October, 1987)
 - (c) Special Progress Report - October 1987
3. Discussions with the Representatives of the Contractor.
4. Conclusions and Recommendations of the Project Technical Committee.
5. Follow-up Draft Project Document.

3. Follow-Up of Previous Recommendations of the Project Technical Committee

(a) Appointment of a Project Coordinator

It appears that funds are not available for the appointment of a Project Coordinator previously recommended by the Project Technical Committee. The matter is therefore closed as far as the current project is concerned.

(b) Communications network

Communications have improved considerably with all the Member States of SADCC including Malawi where a network representative has now been appointed who can directly contact the PTC regarding training applications for Malawi.

(c) Fellowships and Study Tours

Additional fellowships have been implemented during 1987 on behalf of Member States of SADCC other than Angola as recommended by the Project Technical Committee.

4. Consideration of Progress Reports Submitted by the Contractor and Discussion With the Contractor's Representatives

(a) Analysis of Progress

The performance of the Contractor in terms of delivery of services is illustrated in Annex I attached to this report.

87% of technical assistance (expressed in man-months) envisaged under the contract have been delivered as at end October 1987 and the contractor sees no impediment in delivering the balance of 13% of the services to end June 1988, thus completing the contract.

The total output of trainees from the PTC as at end October 1987 was 444 as shown in Annex II attached to this report, comprising 353 Angolans (79.5%) and 91 trainees (20.5%) from SADCC countries other than Angola as shown in Annex 3, thus indicating a trend of increasing participation of SADCC countries other than Angola, thus justifying the original regional project.

It was also noted that an application on behalf of 12 trainees was received by the PTC in July for the first time from Malawi. However, the Committee noted with regret that this application was postponed for implementation in 1988.

The Contractor informed the meeting that since the beginning of September 1987, vocational training (long courses) had been introduced for Angolans from age 16/18 and that a separate stream involving shorter courses would be maintained for SADCC countries other than Angola, to suit their own specific needs and higher educational level where applicable. The committee expressed the hope that this new policy would not lead to any diminution of participation by the other SADCC countries.

The Contractor estimated that the total output of trainees at the end of the contract (June 1988) would be in excess of 600 including 25% of this number attending seminars and short courses. Although the PTC is virtually self-reliant regarding management and administration, this will not be the case in respect of Angolan instructors at the end of the contract. The tendency has been to lose Angolan instructors to other employers in Angola after they have been trained at the PTC.

(b) Equipment, Spare Parts and Materials

The Contractor confirmed that the balance of US\$ 18,382 for spare parts and consumables to complete the equipment component of the contract had now been spent and the purchases shipped to Luanda in November.

(c) Logistical Buildings in Luanda

The logistical buildings constructed in Luanda have not yet been connected to local services (electricity and water supply) and had therefore not yet been used for the receipt and dispatch of trainees to and from other SADCC countries.

(d) Fellowships and Study Tours

Only 48% of the provision of 110 man-weeks in the contract for fellowships and study tours has been expended up to end October 1987. The Contractor undertook to advise UNIDO of the list of subjects to be suggested to all SADCC countries for additional allocation of fellowships and study tours in order to utilize fully the balance of remaining man/weeks in the contract. It is expected that 40 trainees will have benefitted from the programme for fellowships and study tours as at the end of the contract.

(e) Seminars and Short Courses

A total of six seminars and short courses have so far been conducted for a total of 113 participants from SADCC countries including Angola. No details of the syllabi followed have been given by the Contractor in the progress report with the exception of the seminar in respect of computers. The Committee noted that 18 man-months of seminars and short courses remain to be utilized until end June 1988.

(f) Water Supply and Health Considerations

The Contractor confirmed that steps have been taken to improve the quality of water supplies to minimize danger to the general level of health in the Sumbe area.

(g) Post and Telegraph System

There is a need to improve the postal system and telecommunications service for the benefit of the trainees and their families.

(g) Training Certificates

The Committee noted that certificates are now being issued by the PTC to trainees certifying the successful completion of courses.

the courses conducted at the PTC to include energy-related industries other than petroleum;

- d) The need of the PTC for additional expatriate trainers to supplement the low number of Angolan instructors and to train new trainers;
- e) The need to replace the current items of transport at the end of the contract and to provide additional spare parts, materials and consumables;
- f) The desirability to continue an appropriate programme of fellowships and study tours;
- g) The need to survey and analyze the specific training needs in all SADCC countries and to identify topics for seminars which can be conducted both inside and outside Angola in other SADCC countries,

the Committee concluded that further technical assistance to enable the PTC to continue to function beyond June 1988 is fully justified.

Accordingly, a draft Project Document for a new project of three years duration has been prepared by the Project Technical Committee for consideration by UNIDO.

- 9. The Committee therefore recommends that further steps are taken by UNIDO in co-operation with TAU-Energy to implement additional surveys and analyses in SADCC countries other than Angola at an early date to provide input data for the design and preparation of courses more appropriate to the specific training needs of these countries to be incorporated in the new follow-up project.
- 10. The Committee also recommends that a new up-to-date information brochure or leaflet describing the facilities and courses at the PTC including photographs should be prepared as soon as possible for circulation to all network representatives in the SADCC countries and UNDP offices in these countries.

CONTRACT 04/19 - UNIDO PROJECT DP/DAF/03/022
 ASSISTANCE TO THE PTC - SHIMDE - AMBOLA

TIME PROGRESS on OCTOBER 31, 1987

0.88

BREAKDOWN OF THE SERVICES PERFORMED

	1984	1985	1986	1987	TOTAL	PROGRESS	CONTRACT	
TECHNICAL ASSISTANCE (man/ months)								
a) MANAGEMENT AND ORGANISATION	15.0	45.5	34.0	19.0	113.5	0.86	132.0	
b) ASSISTANCE TO COURSES	6.0	39.5	88.0	34.0	177.5	0.97	185.0	
c) SURVEYS, RESEARCH, ED. ENGINEERING	15.0	21.5	15.0	12.5	64.0	0.76	84.0	
d) LANGUAGE COURSES, MIN. COURSES, SEMINARS	4.0	15.5	20.5	10.0	50.0	0.74	68.0	
TOTAL	40.0	122.0	147.5	95.5	405.0	0.87	469.6	
USD	322,571.4	1,093,579.7	1,443,475.9	922,006.6	3,781,713.6	0.88	4,279,800.0	
SUPPLY OF MATERIALS	USD	0.0	576,518.0	0.0	28,736.0	605,254.0	0.97	623,636.0
FELLOWSHIPS & STUDY TOURS (man/weeks)	0.0	3.0	38.0	20.0	53.0	0.48	110.0	
USD	0.0	5,590.9	95,909.1	37,272.7	98,772.7	0.48	205,000.0	
GRAND TOTAL	322,571.4	1,675,608.6	1,499,385.0	959,359.3	4,457,004.4	0.87	5,100,436.0	

	USD	
CONTRACT PRICE	5,100,436.0	
INVOICED TO UNIDO AT OCTOBER 87	4,457,004.4	0.87
SPENT BY CONTRACT TO OCTOBER 87	4,457,004.4	1.00

PETROLEUM TRAINING CENTRE - SUBSE (ANGOLA)

TRAINING ACTIVITIES FROM 1984 TO OCTOBER 1987

COURSES	START DATE	END DATE	No.	COUNTRY	COMPANY
Ext. Ref. Op. (1st)	08.11.84	26.07.85	14	ANGOLA	FINA
Civil Works (1st)	18.03.85	31.07.85	19	ANGOLA	CONSTR.DPT.
Train.of Train.(1st)	09.07.85	09.10.85	4	TAN/SWA	VARIOUS
Ext. Ref. Op. (2nd)	06.08.85	19.04.86	17	MOZ	PETROMOC
Firefighting (1st)	05.08.85	08.02.86	10	LES	FIRE DPT.
English (1st + 2nd)	07.08.85	13.12.87	22	ANGOLA	PTC
Ext. Ref. Op. (3rd)	03.10.85	03.05.86	7	TAN	TIPER
Prod. Op. (1st)	04.10.85	04.05.86	16	ANGOLA	ELF
Electricity (1st)	23.10.85	07.06.86	7	ANGOLA	K.S. PROV.
Civil Works (2nd)	08.01.86	30.06.86	5	ANGOLA	CONSTR.DPT.
Prod. Op. (2nd)	27.01.86	01.11.86	15	ANGOLA	ELF
Ext. Ref. Op. (4th)	05.02.86	01.11.86	16	ANGOLA	FINA
Instrument. (1st)	06.06.86	24.04.87	10	ANGOLA	FINA
Auto Mechan. (1st)	16.07.86	10.04.87	11	ANGOLA	FINA
Welding (1st)	20.08.86	30.04.87	5	ANGOLA	GULF/FINA
Firefighting (2nd)	26.08.86	16.03.87	16	ANGOLA	SON/GULF
Ext. Ref. Op. (5th)	02.02.87	02.11.87	16	ANGOLA	FINA
Prod. Op. (3rd)	16.02.87	17.08.87	12	ANGOLA	ELF
Electricity (2nd)	16.02.87	30.10.87	12	ANGOLA	SON/GULF
English (3rd)	20.04.87		14	ANGOLA	PTC
Prod. Op. (4th)	01.06.87		12	ANGOLA	FINA
Petr. Storage (1st)	08.06.87		11	ANGOLA	CUSTOM OPT.
Train.of Train.(2nd)	16.07.87	03.10.87	6	TAN	VARIOUS
Welding (2nd)	22.07.87		7	TAN	VARIOUS
Fitting (1st)	07.08.87		10	TAN	VARIOUS
Petr. Storage (3rd)	12.10.87		15	ANGOLA	CUSTOM OPT.
Electricity (3rd)	12.10.87		13	TAN	VARIOUS
Rot.Mech.Mech. (1st)	23.10.87		9	MOZ	ELECTH.MOZ.

SUB TOTAL 331

SEMINARS/SHORT COURSES	START DATE	END DATE	No.	COUNTRY	COMPANY
Mainten. Plann.	18.06.86	26.06.86	28	ANGOLA	
Managem. Techn.	23.10.86	01.11.86	6	BOT/ZAM/ZIM	
Managem. Techn.	06.11.86	18.11.86	22	ANGOLA	
Person. Computer	24.11.86	14.12.86	16	ANGOLA	
Managem. Techn.	11.02.87	20.02.87	21	ANG/MOZ	
Person. Computer	24.06.87	17.07.87	20	ANGOLA	

SUB TOTAL 113

GRAND TOT. 444

PETROLEUM TRAINING CENTRE - SUMBE (ANGOLA)

PERSONNEL TRAINED TO OCTOBER 1987 (PER COUNTRY)

	TECHN. COURSES	SEM./SHORT COURSES	LANGUAGE COURSES	TOTAL	PERCENT
ANGOLA	212	105	36	353	79.5
TANZANIA	45	0	0	45	10.1
MOZAMBIQUE	26	2	0	28	6.3
LESOTHO	10	0	0	10	2.3
BOTSWANA	0	4	0	4	0.9
SWAZILAND	2	0	0	2	0.5
ZAMBIA	0	1	0	1	0.2
ZIMBABWE	0	1	0	1	0.2
<hr style="border-top: 1px dashed black;"/>					
TOTAL	295	113	36	444	100.0

CONTRACT No.84/16-UNDO PROJECT No.07/RAF/83/022
 ASSISTANCE TO THE P.T.C.-GLAME--THE PEOPLE'S REPUBLIC OF ANGOLA
 CONSULT SERVICES FOR YEAR 1988

TRAINING ACTIVITIES

DATE : 31.03.1987

TABLE I
 SHEET 1 of 2

REF	ACTIVITY	THE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	UNIT
1.1.1	Inf. Plant (M&M)	0-0													7	AMS
1.1.2	Production Operations	14													8	AMS
1.1.3	Production Operations	0-0													6	AMS
1.1.4	Start-up	0-0													3	TAM
1.1.5	Inf. Plant (M&M, Piping)	0-0													3	TAM
1.1.6	Inf. Plant (M&M, Piping)	0-0													6	TAM
1.1.7	Inf. Plant (M&M, Piping)	0-0													4	AMS
1.1.8	Inf. Plant (M&M, Piping)	0-0													4	AMS
1.1.9	Inf. Plant (M&M, Piping)	0-0													6	TAM
1.1.10	Inf. Plant (M&M, Piping)	0-0													4	TAM
1.1.11	Building & Pipe, Maintenance	0-0													15	TAM
1.1.12	Inf. Plant (M&M)	0-0													6	AMS
1.1.13	Inf. Plant (M&M)	0-0													6	AMS
1.1.14	Inf. Plant (M&M)	0-0													25	AMS
TOTAL : 57															148	

TOTAL : 13

PLANNED
 PERFORMED
 UNDO

CONTRACT No.24/78-UNIDO PROJECT No.27/78F/83/022
 ASSISTANCE TO THE P.T.O.-GUINEA--THE PEOPLE'S REPUBLIC OF ANGOLA
 CONSULTANT SERVICES FOR YEAR 1988

DATE : 21.01.1987

TABLE B
 SHEET 2 of 2
 TRAINING ACTIVITIES

ACTIVITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	BY
1.2.1 Teaching methodology													6	
1.2.3 Training of Trainers and													3	0 1/208
1.2.4 English Language (week)													6	
1.2.5 Industrial Management													1	
1.2.5 Trainers (initial)													1	

TOTAL : 3

TOTAL : 17 - 0

GRAND TOTAL (A+B) : 17

GRAND TOTAL (A+B) : 00 - 156

~~PLANNED~~ ~~PERFORMED~~

00000