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August 1987  
ENGLISH

ASSISTANCE TO THE PETROLEUM TRAINING CENTRE SUMBÉ (KWANZA SUL)

DP/RAF/83/022

PEOPLE'S REPUBLIC OF ANGOLA

Report of the Project Technical Committee\*  
Fifth Meeting, 29 June - 3 July 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 FIFTH MEETING, 29 JUNE - 3 JULY 1987

L. Brezula, UNIDO Consultant  
H. Huber, UNIDO Consultant  
J. Mohr, UNIDO Consultant  
T. Russell, UNIDO Consultant

Also attending

M. Derrouqh, UNIDO Expert  
M. Kohonen, Purchase and Contract Services,  
UNIDO  
M. Morganti  
Comerint  
M. Salica

2. AGENDA OF THE FIFTH MEETING

The following agenda was adopted:

1. Follow-up of previous recommendations of the Project Technical Committee.
2. Consideration of the following documents:
  - (a) the fifth and sixth Progress Report (May-October, 1986, November 86 - April 87)
  - (b) final Report on the Evaluation Mission 14 - 25 April 1987
3. Discussion with the Representatives of the Contractor.
4. Conclusions and Recommendations of the Project Technical Committee.

**3. Follow-up of previous recommendations of the Project Technical Committee.**

**(a) Appointment of a Project Coordinator.**

The committee noted that UNIDO is awaiting approval of UNDP, NEW YORK, to the proposed new post of Project Coordinator. UNDP have advised that the matter is awaiting evaluation of the final report of the Project Evaluation Team by UNDP.

**(b) Communication network.**

Although communications appear to be satisfactory with TANZANIA, MOZAMBIQUE and BOTSWANA, this is not yet the case with the other SACDD countries.

**4. Consideration of Progress Reports submitted by the Contractor and Discussion with the Contractor's Representatives**

**(a) Analysis of Progress.**

The up to date performance of the Contractor in terms of delivery of services is illustrated in the chart (Annex 1) attached to this report.

The chart indicates that 77 % of the services envisaged under the contract have been delivered as at 30th June 1987. During discussion of this delivery performance, the Contractor estimated that the balance of 23 % of the services still outstanding would be delivered over the period July 1987 to June 1988 thus completing the contract.

The output of trainees (ANNEX 4) from the PTC as at end June, 1987 totalled 408 comprising 353 Angolians (86.6 %) and 55 trainees from SADCC countries other than ANGOLA (13.4 %). Therefore, the result of the participation of SADCC countries other than ANGOLA is still very unsatisfactory.

For the immediate outlook, the PTC has recently received applications from TANZANIA and MOZAMBIQUE for 70 and 60 trainees respectively to attend courses at the PTC. Provided these applications are accepted and implemented, the ratio of Angolians to non-Angolians would change substantially, thereby enhancing the role of the PTC as a regional training facility. Much will therefore depend upon achievement of the programme over the remainder of 1987.

The accelerating interest on the part of TANZANIA and MOZAMBIQUE in using the facilities of the PTC in ANGOLA is attributable mainly to the work and dedication of the official contact in each of these countries who maintains regular communication with TAU/LUANDA and the PTC and solves the local problems in their own country of involving the oil companies, trainee selection, finance for travel and obtaining visas for entry into ANGOLA etc. Such an arrangement should exist in all the SADCC countries to promote the success of the regional project. TAU/LUANDA should therefore ensure that such contacts are established and maintained.

The committee noted that the PTC is now able to offer an extensive line of programs as courses and seminars This constitutes 82 % of total envisaged delivery of 500 students (i. e. 800 students based on 4 years of operation - later reduced to 500 on 2 1/2 years of operation).

The Contractor feels that PTC should reach 500 students by 1988 or 2 1/2 years after training actually started at the PTC. An achievement the committee feels is acceptable under the circumstances.

There have been some exploratory meetings a year ago and a request for another has just been received from MOZAMBIQUE, TANZANIA and BOTSWANA (Annex 5). The committee is led to believe that such meetings are organized on an ad hoc basis and not as a part of a network group working more or less permanently in their respective countries on matters concerning PTC operations and future.

(b) Equipment, spare parts and materials

According to further information provided by the Contractor at the meeting, the supply of materials component within the contract has been fully of the additional materials recently approved by UNIDO. This means that no more funds are available to purchase additional spare parts for the vehicle fleet which is in constant need of spares to keep the vehicles roadworthy having regard to the difficult conditions under which they are operated.

Apparently PTC is running short of spare parts and consumables for various reasons beyond their control. The committee is pleased to understand that supplies are under way to ANGOLA to alleviate the most urgent short term needs. It is however necessary for PTC to look more closely into the high turnover of supplies and materials and establish procedures for better control measures and improved training in the use and operation of PTC equipment and material.

Discussion took place on how this problem might adversely affect the intake of trainees due to possible inability to transport them. The problem can only be solved by the transfer of existing funds from another component of the contract or alternatively, further assistance in this matter being provided by the Oil Companies who are using the PTC.

It should be mentioned that approximately US\$ 34.000,- from the budget are left for spare parts and consumables and will be spent in the near future.

Training programs for the use of equipment could be established at the PTC for its staff:

(c) Logistical buildings in LUANDA

The committee noted with regret that the logistical buildings constructed in LUANDA have not yet been used as they have not been connected to local electricity and water services. The buildings are intended for the transit of trainees through LUANDA en route to the PTC and also for the accommodation and messing of trainees attending seminars to be conducted in LUANDA by the PTC.

The Contractor confirmed that all outstanding materials for the connection of the buildings to local services have been shipped and should arrive in LUANDA mid-July. The accommodation facilities should therefore be available soon for utilisation by the trainees.

The logistic buildings may finally be used for students in transit to and from PTC in SUMBE and also for PTC training in the LUANDA area.



(d) Fellowships and study tours.

The committee is again concerned at the lack of fellowships and study tours discussed in some detail at the last meeting of the committee in August, 1986, and noted the statement of the Contractor in the Sixth Progress Report that implementation is being confined only to SADCC countries which have utilised the PTC facilities. Funds are now made available to SADCC member states showing their interest in the offers of the PTC.

The applications for Fellowships and study tours from each country show the high interest of participating not Angolian countries as are TANZANIA, BOTSWANA, SWAZILAND and LESOTHO, but the screening of UNIDO and PTC reduced and screened the applying "man weeks" of no Angolian countries to more than half. The exploration is, that fellowship is allowed only to those, who are attending PTC courses.

At the same time COMERINT will prepare new program and submit to the UNIDO by the end of the year 1987.

(e) Seminars

Seminars of different technical and economical topics are one of main possibilities how to improve up to date professional level of high qualified technicians and top level officials:

It is very urgent by COMERINT to prepare status and program of seminars adjusted to the needs of each country. The location of seminars is preferable to be out of SUMBE, but in the country of attendants. The PTC would take care about the lecturer and professional standards.

Beside the English language training for PTC's staff it is decided to run courses also for improving of English language standard for PTC students.

Professional level of the courses

As to informations of "evaluating committee" the educational standard of teachers and given lecture is at proper level.

But an adjustment of different courses according to the education standard of students (classes) is necessary, e.g. software adaptation and renewing.

On job training of trainees or practical training of students except of civil maintenance did not start as foreseen. COMERINT should deliver their plans how to start and run on job training of Angolian and expatriate students.

(f) Transportation

The problem of transportation within the area of PTC and between PTC and SUMBE, and LUANDA and SUMBE is very critical.

The shortage of spare parts for cars and busses, not proper operation equipment and maintenance problems are the bottle necks for operating PTC for the future.

This problem have to be solved very quickly otherwise it would hamper seriously the activities at PTC.

(g) Additional information required

The Contractor was requested to include additional information in future reports including

- (i) cumulative totals of trainees who have completed courses and seminars since commencement of the contract as previously requested on numerous occasions by the committee,
- (ii) details for the reasons for SADCC countries being unwilling in some cases to send trainees to ANGOLA for long periods of time,
- (iii) explanation of the low level of trainees in some cases,
- (iv) an indication by the Contractor in which areas the PTC can be operated by the PTC staff on their own without foreign assistance.

Meeting with the COMERINT representatives on July 1st and 2nd, 1987 - also Kohonen present

They gave very favourable impression of doing their job in a professional and enthusiastic manner under the most severe conditions. It was made clear that communications is a major difficulty not only in ANGOLA but more so between ANGOLA and the outside world including the SADCC member states.

Apart from the physical difficulties of poor telecommunications there is still the major problem of national coordination of information from and to PTC. Frequent change of coordinating individuals within the responsible ministries makes continuity of work very difficult.

TANZANIA seemd to be an exception and is therefore able to send a number of students to the PTC. The committee feels that the hopes we had after our meeting in Vienna with SADCC experts in August 1986 has not been fulfilled. Apparently our recommended terms of reference for country coordinators has not been put into effect as of today.

5. COMMENTS ON THE FINAL REPORT SUBMITTED BY THE PROJECT EVALUATION TEAM.

1. The committee derived satisfaction from the endorsement by the Project Evaluation Team of the recommendation made by the committee at its last meeting in August, 1986 for the appointment of a Project Coordinator and agreed with the draft job description attached hereto as Annex 4.
2. The committee agreed with the recommendation of the Project Evaluation Team to review and recommend the future viability of the PTC as a regional training facility after the end of the contract period and suggests that such a review should be undertaken not later than end 1987. In this connection, purchase and Contract Services have already requested the Contractor to provide a summary of all activities and difficulties encountered from commencement of the contract until end October 1987 to coincide with the next Progress Report to be submitted by the Contractor.
3. The Committee noted and agreed with the suggestions made by the Project Evaluation Team in para 4.6, page 14 of their report for the improvement of communication between the PTC and SADCC countries other than ANGOLA where this does not already exist.

## **6. CONCLUSIONS AND RECOMMENDATIONS**

Based on the Progress Reports and other documents provided by the Contractor and further elaboration given by the Contractor's Representatives during the meeting, the committee concluded that since their last meeting in August, 1986

- (a) participation by SADCC countries other than ANGOLA is still at a low level (38 trainees only in courses) despite some progress in the efforts made to improve the situation. In this connection, the committee noted the receipt by the PTC of 70 applications from TANZANIA and 60 from MOZAMBIQUE and recommends that every effort should be made by all concerned to satisfy this new demand during the remainder of the contract period.
- (b) while contacts with TANZANIA and MOZAMBIQUE appear to be satisfactory, the same communication with the other SADCC countries is lacking. The committee therefore recommends that further efforts be made to improve the situation at the earliest opportunity in good time before expiration of the contract in line with the committee's suggestions in August 1986 endorsed by the Project Evaluation Team.
- (c) the new development of the involvement of the Oil Companies in ANGOLA in the activities of the PTC is confirmation of the contribution being made by the PTC to the short and longterm objectives of the Government of ANGOLA in the development of its oil industry. The committee recommends that similar involvement by Oil Companies in neighbouring SADCC countries should be pursued.
- (d) the general conditions affecting the operation of the PTC in respect of management, electricity, water supplies and catering have much improved. However, the problem of transportation within the SUMBE-PTC area and between the PTC and LUANDA is still critical. The committee therefore recommends that this problem should be addressed by the PTC Management once again before the activities at the PTC are adversely affected to such an extent that trainees are unable to be accepted at the PTC.
- (e) as fellowships and study tours implemented so far have been confined to ANGOLA (with one exception for SWAZILAND), the Committee recommends that further fellowships and study tours should be approved and implemented for the other SADCC countries even although they may not have participated in the courses of the PTC for one reason or another.

(f) by the end of the contract (anticipated about June, 1988), it should be possible for the project to achieve a total output of approximately 500 trainees who will have attended courses and seminars in ANGOLA including 150 trainees from SADCC countries other than ANGOLA. The committee recommends that every effort should be made by all concerned to enhance these figures as much as possible in the ensuing 12 months July, 1987 by utilising the full capacity of the PTC.

#### **7. FOLLOW-UP ACTION BY UNIDO**

In the light of the above conclusions and recommendations, the committee recommends the following actions to be taken by UNIDO:

1. Expedite the approval and appointment of a Project Coordinator as previously recommended by the committee and endorsed by the recent Project Evaluation Team.
2. Renew vigorous efforts to establish and improve contacts with SADCC countries other than ANGOLA, TANZANIA and MOZAMBIQUE by visits to these countries to survey their training needs in the energy sector and to persuade them to appoint a network contact for direct communication with TAU/LUANDA and the Management of the PTC as already exists in TANZANIA and MOZAMBIQUE. The person so appointed should visit the PTC to assess the training facilities in respect of their own training needs.
3. Expedite implementation of further fellowships and study tours for countries other than ANGOLA.

## ANNEX 1

CONTRACT DA/19 - UNITED PROJECT OF:RAF/CS/CC  
ASSISTANCE TO THE PTC - SUDAN - ANGOLA

TIME PROGRESS as JUNE 30, 1987

9.7%

## BREAKDOWN OF THE SERVICES PERFORMED

	1984	1985	1986	1987	TOTAL	PROGRESS	CONTRACT	
<b>TECHNICAL ASSISTANCE (man/months)</b>								
a) MANAGEMENT AND ORGANISATION	15.0	65.5	34.0	11.5	106.0	0.80	132.0	
b) ASSISTANCE TO COURSES	6.0	39.5	80.0	27.5	153.0	0.83	185.0	
c) SURVEYS, RESEARCH, ED. ENGINEERING	15.0	21.5	15.0	6.0	57.5	0.60	80.0	
d) LANGUAGE COURSES, MIL. COURSES, SEMINARS	6.0	15.5	20.5	6.0	48.0	0.65	60.0	
<b>TOTAL</b>	<b>42.0</b>	<b>122.0</b>	<b>149.5</b>	<b>49.0</b>	<b>362.5</b>	<b>0.77</b>	<b>457.0</b>	
<b>USD</b>	<b>322,571.0</b>	<b>1,093,579.7</b>	<b>1,643,475.9</b>	<b>475,112.5</b>	<b>3,532,739.5</b>	<b>0.70</b>	<b>4,279,000.0</b>	
<b>SUPPLY OF MATERIALS</b>	<b>USD</b>	<b>0.0</b>	<b>576,518.0</b>	<b>0.0</b>	<b>7,689.0</b>	<b>584,207.0</b>	<b>0.94</b>	<b>623,656.0</b>
<b>FELLOWSHIPS &amp; STUDY TOURS (man/weeks)</b>	<b>0.0</b>	<b>3.0</b>	<b>30.0</b>	<b>0.0</b>	<b>33.0</b>	<b>0.30</b>	<b>110.0</b>	
<b>USD</b>	<b>0.0</b>	<b>3,590.9</b>	<b>55,909.1</b>	<b>0.0</b>	<b>61,500.0</b>	<b>0.30</b>	<b>205,000.0</b>	
<b>GRAND TOTAL</b>	<b>322,571.0</b>	<b>1,675,608.6</b>	<b>1,699,385.0</b>	<b>475,112.5</b>	<b>3,970,737.5</b>	<b>0.70</b>	<b>5,100,456.0</b>	

JUNARY:	USD
CONTRACT PRICE	5,100,456.0
INVOICED TO UNITED AT MARCH 87	2,876,459.0 0.76
SPENT BY CONTRACT TO JUNE 87	3,970,737.5 0.97
BALANCE	100,298.5

ANNEX 2

CONTRACT No.84/19-UNIDO PROJECT No.DP/RAF/83/022  
 ASSISTANCE TO THE P.T.C.-SUMBE-THE PEOPLE'S REPUBLIC OF ANGOLA  
 COMERINT SERVICES FOR THE YEAR 1988

TRAINING ACTIVITIES (UP-DATED SCHEDULE)

DATE : 01.05.1987

REF	ACTIVITY	UNIT	NO. OF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	PERFORMED	REMARKS					
1.b.2	Ext.Ref.Operations	Class II	10	[Planned]									7	-	16	ANG							
1.b.3	Production Operations	Class II	5	[Planned]															2	-	10	ANG	
1.b.4	Electricity	Class II	3	[Planned]																4	-	13	TAN
1.b.5	Instrumentation	Class	2	[Planned]																6	-	10	ANG/MOZ
1.b.8	Ind. Plant Maint. (Fitting)	Class	3	[Planned]															3	-	12	TAN	
1.b.9	Ind. Plant Maint.(Rot.M.)	Class	3	[Planned]															3	-	12	ANG/MOZ	
1.b.10	Ind. Plant Maint.(M.V.)	Class	3	[Planned]															3	-	10	ANG/MOZ	
1.b.11	Welding & Pipe Making	Class II	1	[Planned]															1	-	13	TAN/LES	
1.b.13	Ind. Plant Safety	Class	1	[Planned]															1	-	10	MOZ	
1.b.14	Comp. & Ref. Equip.	Class I	2	[Planned]															2	-	15	ANG	
1.b.14	Comp. & Ref. Equip.	Class II	4	[Planned]																6	-	15	MOZ

TOTAL : 11

TOTAL : 38 - 136

■ NEW ACTIVITY

■ PLANNED

▨ PERFORMED



**UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION**

**JOB DESCRIPTION**

DP/RAF/83/022/11-01

**Post title**            Project Co-ordinator

**Duration**            One year with possibility of extension

**Date required**        As soon as possible

**Duty station**        Sumbé (Angola) with travel in the SADCC region

**Purpose of project**    The longterm development objective is "to contribute to the achievement of self-reliance in the socio-economic development of the SADCC member states by increasing the technical and managerial capabilities of the SADCC member states in the field of energy related industries and especially petroleum industries" through technical assistance to the Regional Petroleum Training Centre in Sumbé (Angola).

**Duties**

**Duties**            Under the supervision of UNIDO Headquarters Vienna the project co-ordinator will liaise with UNDP/UNIDO (Luanda), advise and assist the management of the Petroleum Training Centre (PTC) in the implementation of project activities. This includes managerial, organizational, communicative, planning and co-ordinating functions. In particular he will:

- Assist the Director of PTC in planning management and recruitment of trainees;
- Liaise with representatives of UNDP/UNIDO in Angola and UNIDO Vienna for all matters related to the PTC;
- Assist the activities of the Technical Commissions and in the implementation of their proposals through the Regional Co-ordinator of the energy sector;
- Maintain and strengthen the relations with the operating petroleum companies and other end users of PTC in the SADCC region;

.... / ...

Applications and communications regarding this Job Description should be sent to

Project Personnel Recruitment Section, Industrial Operations Division  
UNIDO VIENNA INTERNATIONAL CENTRE, P.O. Box 300, Vienna, Austria



- Co-ordinate the implementation of the contract between the UNDP/UNIDO and the subcontractor COMERINT;
- Co-ordinate the relationships between the PTC and the SADCC countries through the Regional Technical Co-ordinating Committee and the National Technical Commissions;
- Elaborate monthly progress reports regarding the activities of the project.

**Qualifications:** Industrial Engineer or highly qualified technician experienced in training activities preferably in the petroleum industry sector.

**Language:** English essential. Working knowledge of Portuguese desirable.

**Background information:** The Government of the SADCC Member States (The South African Development Co-ordination Conference (SADCC) includes: Angola, Botswana, Lesotho, Malawi, Mozambique, Swaziland, Tanzania, Zambia and Zimbabwe) with the Government of the People's Republic of Angola as co-ordinator of the SADCC Energy Programme have placed great emphasis on the development of the petroleum industry. For this massive effort aimed at manpower training is required.

An important step was taken by the Government of Angola by setting up a Petroleum Training Centre (PTC) in Sumbé in 1979. In 1983 the Government of Angola proposed to develop regional activities at the PTC with a view to training technical and managerial staff of petroleum industries in the SADCC member states; At the same time, the new regional dimension of the PTC should also contribute further to encourage the development of technical co-operation between member states.

UNIDO was designated as executing agency for this project, with financial contribution of the People's Republic of Angola, UNDP and NORAD. The project was subcontracted to COMERINT in April 1984. The project had a real start in November 1985. For the last 18 months, about 229 trainees attended courses in different specialities, 10 trainers and 92 participants took part in seminars.

After a slow start, the results, at halfway of the duration of the project are improving in quality and quantity, but remain far from the project target of 800 trainees and 180 trainers.

Moreover, when looking at the origin of participants, there is a poor participation of many SADCC countries apart from Angola, Mozambique and Tanzania. Despite the many difficulties encountered, PTC has now reached a stage of viable enterprise, important for Angola and all SADCC region, and continuous efforts of co-ordination are required between PTC, SADCC countries, UNDP, UNIDO and NORAD. In order to strengthen backstopping activities of UNIDO, to maintain an adequate communication network with the SADCC countries and support PTC management actions, it is envisaged to recruit a Project Co-ordinator who will provide continuous monitoring activity of the project and personal motivation at site level.

## ANNEX 4

## PETROLEUM TRAINING CENTRE - SUMBRE (ANGOLA)

TRAINING ACITIVITIES FROM 1985 TO JUNE 87

COURSES	START.DATE	END DATE	TRAIN.N.	COUNTRY	COMPANY
Ext. Ref.Op.(1st)	08.11.84	26.07.85	14	ANGOLA	FINA
Train.of Train. (1st)	09.07.85	09.10.85	4	TAN/SWA	
Firefighting	05.08.85	08.02.86	10	TAN/LES	
Ext.Ref.Op. (2nd)	05.08.85	19.04.86	17	MOZAMB.	PETROMOC
Ext.Ref.Op. (3rd)	03.10.85	03.05.86	7	TANZ.	TIPER
Prod.Op. (1st)	04.10.85	04.05.86	16	ANGOLA	ELF
Electricians (1st)	23.10.85	07.06.86	7	ANGOLA	
Ext.Ref.Op.(3rd)	05.02.86	01.11.86	16	ANGOLA	FINA
Prod.Op.(2nd)	27.01.86	01.11.86	15	ANGOLA	ELF
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/PINA
Firefighting (2nd)	25.08.86	16.03.87	16	ANGOLA	SON/GULF
Ext.Ref.Op.(4th)	02.02.87	02.11.87	16	ANGOLA	FINA
Prod.Op.(3rd)	16.02.87	01.11.87	12	ANGOLA	ELF
Electricians (2nd)	16.02.87	15.10.87	13	ANGOLA	SON/GULF
English (1st+2nd)	07.08.85	13 12.86	41	ANGOLA	(*)
English (3rd)	20.04.87	20.07.87	42	ANGOLA	(**)
Prod.Op. (4th)	01.06.87	28.02.88	12	ANGOLA	FINA
Petr.Storage (1st)	08.06.87	31.12.87	11	ANGOLA	CUSTOM DEPT.
			TOTAL N.	295	
<b>SEMINARS/SHORT COURSES</b>					
Mainten.Plann.	18.06.86	26.06.86	28	ANGOLA	
Managem.Tech.	23.10.86	01.11.86	6	BOT/LES/TAN	
Managem.Tech.	05.11.86	18.11.86	22	ANGOLA	
Person.Computer	24.11.86	14.12.86	16	ANGOLA	
Managem.Tech.	11.02.87	20.02.87	21	ANG/MOZAMB.	
Person.Computer	24.06.87	17.07.87	20	ANGOLA	MEP/SON/ ESPA
			TOTAL N.	113	
			GRAND TOTAL	408	

(\*): 19 trainees from  
technical courses

(\*\*): 28 trainees from  
technical courses

Summary of 5th Report May/Oct 1986 from CCOMERINT

	Ref.
<b>A <u>POOR PARTICIPATION OF SADCC COUNTRIES</u></b>	4/32
1 Meeting in July UNIDO/COMERINT with ANGOLA- BOTSWANA - MOZAMB. - SWAZIL. - TANZ. PTC is accepted as regional level of courses o.k. Permanent committee of representatives from countries can solve info-problem	5/32
2 Meeting in VIENNA in August BOTSW. - LESOTHO - MOZAMB. - TANZ. - PTC DIR. - Numbers of Particip. forseen given by some - Present by August: List of fellow study tours to COMERINT	6/32
3 PTC/COMER. distrib. plans for 1986	7/32
4 167 man/week wanted by SADCC fellow/tours COM/UNIDO schrened to 85 UNIDO postponed till 1987	
<b>B <u>LACK OF PERSONNEL AT PTC</u></b>	8/32
- Low level available	
- Fasiliiy set of implementable maintenance procedures made	9/32
- Discussed UNIDO extention of Expat.Maint.Services	
- Publ. Rel.Structure (Visa, travel) in LUANDA needed Mcm. tech. course in October	
- PTC wants engl. course ended by Sept. (for Angolans) COMERINT against it - will destroy PTC as regional.	
- UNIDO extend. engl.courses	
- Restrict. of PTC org. required	10/32
- Monthly report to all "users" proposed	
- Better use of PC'S Training in PC expected from November.	
- <u>Priority goal:</u> To transfer experience and inform from expacts to local instructors	11/32
- Two instr. from "high educat. institute" LUANDA assigned to PTC	
<b>C <u>SPARE PARTS AND CONSUMABLES</u></b>	11/32
- Urgently needed PTC can only "Manage for a few month more"!	12/32

1 ASSISTANCE SERVICES

a MCOM-Organization (Annex 1)	15
b Assist to courses (Annex 2)	16
c Survey research-educat. engin (Annex 3)	20
d Language courses and seminar (Annex 4)	21

2 SUPPLY OF MATERIALS

List prepared and sent UNDP LUANDA for approval	22
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3 FELLOW AND STUDY TOURS (Annex 5)

July 2nd - 7th BOTSW., MOZAMB., SWAZ., TANZ. meeting in SUMBE.	22
UNIDO postponed till 1987 27 man/weeks carried out since start up	23

List of project activities May/Oct.	24/32-32/32
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Plans for 1987 - Annex 9

SUMMARY OF 6th REPORT NOV. 86 - APRIL 87

- A POOR PARTICIP OF SADCC COUNTRIES** 4/23
- "Not keen in sending their personnel to ANOGLA for long periods of time"
  - Only seminars and short courses and fellowship/study tours wanted 5
  - COMERINT managed to get 60 from MOZAMBIQUE  
70 -- TANZANIA  
for technical courses in 2nd semester 1987 5
- B LACK OF PERSONNEL AT PTC**
- Certain improvements - but still problem 5
  - Set of easily implementing maintenance procedure completed.  
Will be taught before end of contract (Annex 8)
  - Problem of teachers leaving PTC 6  
(two new left for LUANDA university)  
PTC has received "Some assistance" from oil Co. 0/2 90  
(PORTUGUESE nationals!)
- C SPARE PARTS AND CONSUMABLES** 7
- UNIDO approved - shipment started
  - Printing equipment is "at zero"
  - COMERINT will train in use of new photocopier  
(man month envisaged for mech. mainten.)
- I ASSISTANCE SERVICES**
- a MCM and ORGAN (Annex 1) 9/23
  - b Assist to courses (Annex 2) 10/23
  - c Survey research - educ. eng. (Annex 3) 12/23
  - d Language courses and Semin. (Annex 4) 14/23  
1986 22 Angolians  
enl. April 87 16 Trainees
- MCM SUMBE in PORTUGUES  
Techn. LUANDA in LUANDA
- 2 SUPPLY OF MATERIALS** 15/23
- "Residual consumables" reached LUANDA in April 1987  
Items requested by PTC should reach LUANDA within June 1987
- 3 FELLOWSHIPS AND STUDY TOURS**
- "No activities" .. "on the basis of UNIDO instructions"
- List of Projects Nov/April 16/23 - 23/23  
Up-dated schedule of training activities  
dated 1st May 1987 - Annex 7