

LuM/018/0003/22

TITLE: MOROGORO MOTOR MECHANICS PROJECT

ORIGINATOR: AFRICAN NATIONAL CONGRESS (ANC) SOUTH AFRICA

LOCATION: MOROGORO, TANZANIA

PROJECT SUMMARY: The Morogoro Motor Mechanics project aims at erecting and equipping a mechanical workshop to provide skills training in motor mechanics and servicing of vehicles for the students and ANC members at the Morogoro School.

I. GENERAL BACKGROUND

The ANC (SA) has proposed a vocational training centre which will be an extension programme to the existing ANC (SA) School Project in Mazimbu, Morogoro. The vocational training programme will be based mainly on "workshop - training" with the main aim of serving special demands in Manpower development of the ANC (SA) students programme.

The vocational training programme will be based on practical training which will also include actual "production programme". The training programme will facilitate approximately 900 students whereby technical facilities will be provided for 300 - 400 students at a time. There will be a need to introduce a "shift system" to ensure the participation of all students in the workshop programme and to keep the workshop - programme on a level which could be easily controlled.

The practical work will be done in workshops, partly in laboratories and the theoretical work in the studios near the workshops. There will be a small center - unit which will serve for tea - breaks as well as for small meetings with a library and some working places for students.

Included in the Vocational Training programme will be such courses as welding, tailoring, blacksmithing and metal work, shoe making and leather work, plumbing, electrical maintenance and motor mechanics.

The Morogoro Motor Mechanics project will focus on providing the facilities and equipment for training both students and ANC personnel in motor mechanics. It will also provide servicing of vehicles for the Morogoro School site.

II. OBJECTIVES

1. To erect and equip a mechanical workshop of 300m² with the capacity to house 30 trainees at one time.
2. To provide basic skills training in motor mechanics to 30 students per year and other ANC personnel.

3. To facilitate the servicing and repairing of the ANC vehicles at the Morogoro School site.
4. To purchase tools and equipment which can be used for training and maintenance purposes.

III. PROJECT DESCRIPTION

The Motor Mechanics workshop is designed to be a building of 300m² with the capacity to house 30 students trainees at a time. It will be equipped with the basic equipment to give the student trainees a rounded and practical experience in motor mechanics.

The workshop will also provide the means by which to deal with one of the major problems confronting Morogoro School. From its inception the Morogoro School has been faced with transport difficulties. The few available vehicles are overtaxed and need servicing and repairs constantly. Some need to have spare parts fitted. A Mechanical Workshop would be an ideal place for the maintenance of those vehicles.

The few trucks around the Morogoro School cost too much when serviced and repaired outside yet this could be avoided by training the students and getting them to service our vehicles.

There are presently a few of our comrades who are skilled in Motor Mechanics and who have since had the tasks of servicing our vehicles. Better facilities, including training facilities would ensure that the community would always be able to meet any maintenance demands that might arise.

IV. BENEFITS

The students will obtain practical skills in motor mechanics which will provide possibilities for future employment.

The ANC personnel will have good facilities for training students and servicing their vehicles.

The future South Africa will have skilled manpower to meet its needs in building a country free from racism.

V. ENDORSEMENT OF THE PROJECT

Through the guidance of the National Education Committee of the ANC (SA) and the assistance of skilled members of the Construction team of Morogoro site, this project has been forward for realization.

VI. RELATED PROGRAMMES AND SUPPORT

The Motor Mechanics workshop is only one of a number of training workshops under the umbrella of the Vocational Training programme at Morogoro School. All of these workshops will work together to provide a well - rounded education for the students as well as provide a comprehensive and self - reliant resource for the ANC community at Morogoro School.

VII. LOCAL CONTRIBUTION

ANC members will contribute their skills, time and energy in all aspects of the design and construction of the project.

Teacher/trainees will be for the most part, ANC members.

The students themselves will volunteer their time and energy on their work - days to assist construction of the workshop.

VIII. OPERATIONAL PLAN AND REPORTING

The ANC Treasury Department is responsible for all funds given for the project. The Projects Office of that Department is responsible for the liason between the Treasury Department in Lusaka and the Morogoro Project Office.

Reports on the progrss or completion of the project will be issued by the Projects Office of the Treasury Department upon request of the donor agency.

The Projects Manager at the Morogoro site, together with the group of instructors will see to the day - to - day supervision of the workshop. They will also see to the daily activities of the students.

Construction on the project can begin as soon as the funds are available and will require 6 - 12 months to complete.

IX. ANTICIPATED OBSTACLES

No obstacles are anticipated at this point although there is a constant shortage of cement in Tanzania. This problem has been largely solved by finding sources of supply in such countries as Zambia.

X. PROJECT BUDGET

A. <u>CONSTRUCTION COSTS</u>	AREA	COST/m ²	TOTAL
	300m ²	2,000	600,000
			Tsh 600,000

B. FURNISHING

chairs, tables	12% of construction cost	
		Tsh 72,000

C. EQUIPMENT FOR VOCATIONAL TRAINING

	NO	COST	TOTAL
1. Milling machine	2	_____	_____
2. Press machine	2	_____	_____
3. Boring machine	2	_____	_____
4. Iron cutter	2	_____	_____
5. Fire Extinguisher	2	_____	_____
6. Alarm (in case of danger)	1	_____	_____
7. Spark plug machine cleaner	5	_____	_____
8. Stroboscopes for Ignitio - timing	2	_____	_____
9. Sets of dial gauges & magnetic stands	2	_____	_____
10. Volt metre	2	_____	_____
11. Cell charger	2	_____	_____
12. Hydrometre	2	_____	_____
13. V block for checking faults in armatures	2	_____	_____
14. Ammetre for checking the cut-out as well as the voltage regulator	2	_____	_____
15. Oscilloscope machine	2	_____	_____
16. Diesel pump tester for checking equal dis- tribution of fuel into cylinders	2	_____	_____
17. Exhaust control emission for minimizing fuel consumption		_____	_____
18. Workshop manuals	20	_____	_____
19. Wheel alignment machine & swivel plates	1	_____	_____
20. Large Fan	1	_____	_____

BUDGET (con't)	NO	COST	TOTAL
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C. EQUIPMENT FOR VOCATIONAL TRAINING (con't)

21. Cylinder gauges	10	_____	_____
22. Micrometre	10	_____	_____
23. Vacuum gauge	10	_____	_____
24. Threaded screws (box)	20	_____	_____
25. Compression gauge	10	_____	_____
26. Tyre pressure gauge	10	_____	_____
27. Compressors to air workshop	2	_____	_____
28. Engine protractor for timing	5	_____	_____

D. EQUIPMENT FOR THE GARAGE

1. Safety Glasses	20	_____	_____
2. Tool boxes	20	_____	_____
3. Boots (pairs)	20	_____	_____
4. Service Book	20	_____	_____
5. Stroboscopes	2	_____	_____
6. Test lamps	2	_____	_____
7. Hydrometres	2	_____	_____
8. Dilled water producer	1	_____	_____
9. Wheel rims (for Hi-Ace)	3	_____	_____
10. Wheel rims (for Mercedes trucks)	3	_____	_____
11. Wheel rims (for Hy-a Toyota, 11by 100 size)	2	_____	_____