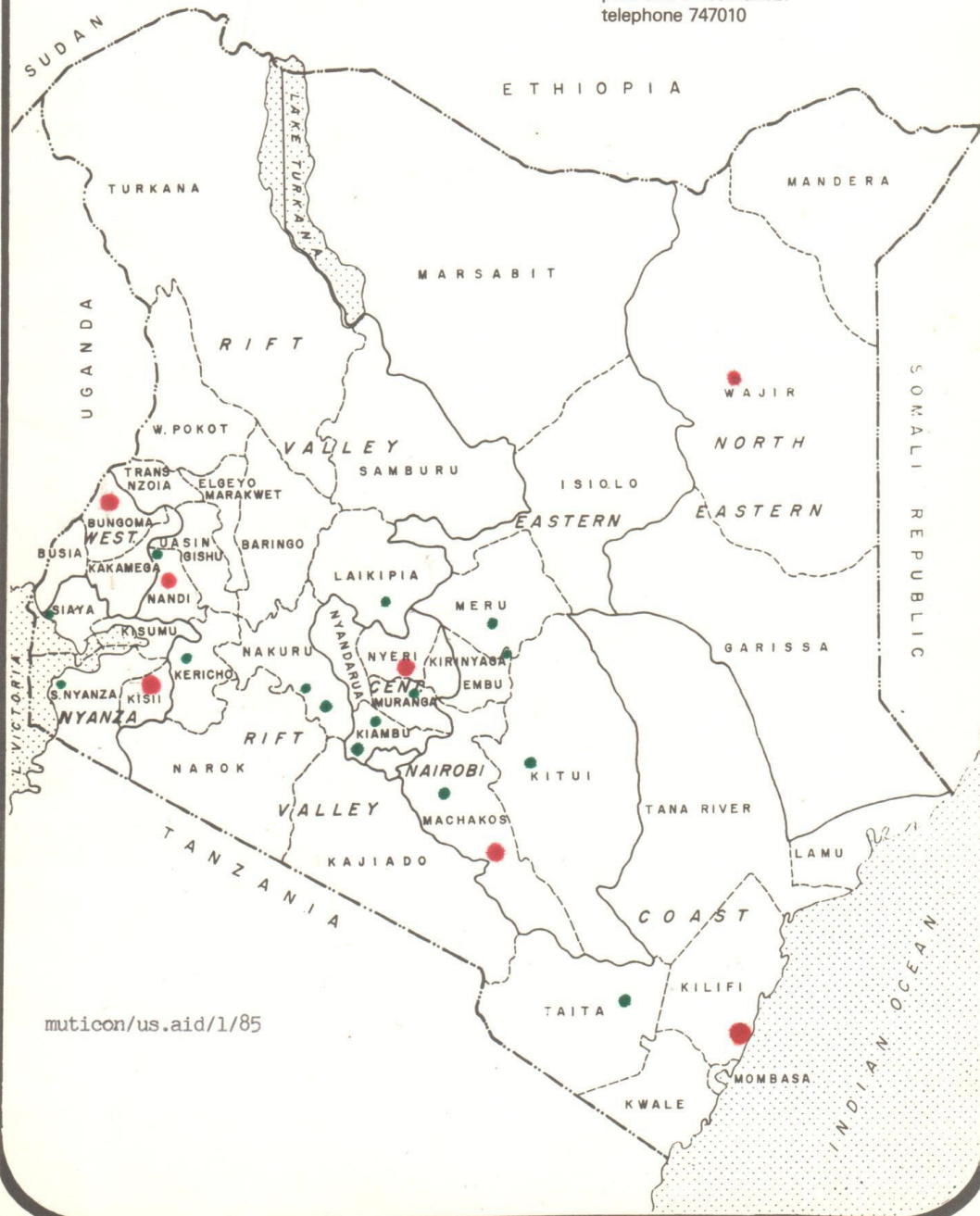


OUTPATIENT SERVICES

PIO/T 615 - 0193 - 3 - 20155



mutiso consultants ltd.
development management
p.o. box 14333 nairobi
telephone 747010



muticon/us.aid/1/85



mutiso consultants ltd.
development management
p.o. box 14333 nairobi
telephone 747010

4th January, 1985

Executive Officer,
US.AID.,
6th Floor,
Union Towers,
Box 30261,
NAIROBI.

Dear Sir,

RE : OUTPATIENT SERVICES PIO/T 615 - 0193 - 3 - 20155.

Enclosed find our proposal on how we plan to complete the work proposed in your scope of work referenced PIO/T 615 - 0193 - 3 - 20155 in your letter of December 21st, 1984.

We look forward to fruitful working relations.

Yours sincerely,

A handwritten signature in dark ink, appearing to read 'G-C. M. Mutiso', written over a horizontal line.

G-C. M. Mutiso.

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A. GENERAL PROJECT DESCRIPTION.

1. Project Background.

The Ministry of Health has been interested in the planning of outpatient facilities in twenty two hospitals scattered all over the republic. These facilities are particularly desired by the Department of Curative Services which sees its service role in the many parts of the republic constrained by the lack of such facilities.

The Department has requested planning help from donors, - and US.AID has responded - so as to enable it to prepare presentations for use in negotiating with donors for funds to impliment the project.

2. Project Objectives.

The initial objective is to do funding preparatory work through the assistance of US.AID donor funds.

It is hoped that the report so produced will be useful to the Ministry of Health in negotiations with donors.

Secondarily data generated in this project will be of use to donors and Ministry of Health in planning the implimentation of a revamped curative medicine programme.

3. Project Benefits.

The Ministry of Health has been fortunate in that donors have previously funded facilities which cater to very small catchment areas and provincial catchments. In terms of overall rural health needs, there has developed, over time, a gap in the delivery of health care, especially surgical care at an intermediate level. At that level, there is need for extensive outpatient clinics, able to service the clients who are referred by lower level facilities. Twenty two sites have been identified by the Ministry as needing good general theatres which will in addition handle gynaecological family planning surgical needs. It is expected that there will be extensive surgical referral demand at the intermediate level as lower facilities refer patients upward. This will reduce costs for users dramatically.

The long-term benefit of the outpatient programme will specifically be in delivering more comprehensive and therefore better health care to the rural populations.

B. PROJECT TASKS.

1. To prepare cost estimates for the construction of twenty two outpatient departments including drawings.
2. To prepare, collect and analyse socio-economic data of the catchment populations for each of the twenty two outpatient departments.

C. METHOD OF IMPLEMENTATION.

1. Preliminary Briefings and Existing Data Review.

- a) US.AID. Briefing will be sought with the Office of Population and Health of the US.AID mission on the outset of the project. Specific information will be sought from them on the following :-
 - i) Type of theatre envisaged.
 - ii) The tentative thinking about implementation schedules of the project.
 - iii) Alternative sources of the theatre equipment which are significant in terms of costing the project.
- b) Ministry of Health. Briefing will be sought to clear several important issues. Among these are :-
 - i) The sequence of implementation.
 - ii) Most desired space needs given the many types of outpatient departments existing.
 - iii) Long term needs of rural health care which may lead to demands being put on facilities in ways which to date have not been in use eg. theatre equipment for implementing family planning surgery, not extensively done today, over and beyond normally desired rural theatres.
 - iv) Examination of the growth of other health facilities in the environs of the twenty two facilities to establish inter-facility distributions.
 - v) Alternative management systems of outpatient departments including theatres.
 - vi) Personnel coming on stream in future years for staffing the twenty two facilities.
- c) Ministry of Finance and Planning. Briefing will be sought to clear following key issues :-
 - i) Projected rural facilities plans.
 - ii) Projected demographics of catchment areas.

d) Ministry of Housing and Physical Planning. Briefing will be on the following issues :-

- i) Classical construction costs for outpatient departments.
- ii) Nyayo Ward type construction costs.
- iii) Other alternatives.

e) Department of Physical Planning. Briefing will be sought to clarify :-

- i) Long-term Physical Plans of the twenty two sites.

All key consultants will participate in the Preliminary Briefings and Existing Data Review Process and it should not take more than five days.

2. Field Work :

a) Rationale. Field work will be done :-

- i) To examine sites.
- ii) To collect patient information not available in Nairobi from District Level Officials who are charged with planning Health Care in the context of District Focus.
- iii) To collect user need information from the local communities and local health and other government officials.

In conducting field work specific data on the following will be sought :-

- i) General outpatient buildings.
- ii) Theatre buildings.
- iii) Staff housing.
- iv) Ground work (including roads and parking) needed.
- v) Utilities needed.
- vi) Equipment needed.
- vii) Availability and suitability of land.
- viii) Population densities and growth rates and attendances.
- ix) Existing and planned family planning use levels.
- x) Labour force participation levels.
- xi) Community education levels.
- xii) Community income levels.

b) Participants. We envisage to put six consultants in the field.

These are :

- i) Project Leader/Social Scientist.
- ii) Architectural Planner.
- iii) Architect.
- iv) Building Construction Specialist.
- v) Physical Planner.
- vi) Economist.

This is in keeping with our company's multidisciplinary nature where assignments are handled by a team rather than individuals.

The six basic consultants' curricula vitae are included below.

c) Site Visit Organisation.

It is envisaged that the team will spend at least two days at each of the seven sites since supporting institutions in the environs will have to be quickly surveyed to establish what and how they will be feeding the new facilities.

It is important to note that of the seven sites, five will have to be visited by air. These are Wajir, Malindi, Kapsabet, Bungoma and Kisii. The other two ie. Karatina and Makindu will be visited by road.

It is envisaged that the full team will simultaneously participate in the field work in the interest of time.

As required in the invitation to tender document, a detailed workplan will be submitted after initial briefing and consultation.

3. Interim and Final Reports.

These Reports will be done in the Office in Nairobi.

Altogether it is envisaged that preparation of the Interim Report will take ten days of the consultants' time.

Five extra days are planned for possible revisions and preparation of the Final Report. One day is budgeted for debriefing on the Interim Report.

D. IMPLIMENTATION COSTS.

1. Consultants.

a) Project Leader/ Social Scientist	35 days @ Shs.3,200 Per day	= Shs.112,000.
b) Architectural Planner	35 days @ Shs.3,200 per day	= Shs.112,000.
c) Architect	35 days @ Shs.3,200 per day	= Shs.112,000.
d) Building Construction Specialist	35 days @ Shs.2,000 per day	= Shs. 70,000.
e) Physical Planner	35 days @ Shs.2,000 per day	= Shs. 70,000.
f) Economist	35 days @ Shs.2,000 per day	= <u>Shs. 70,000.</u>
Sub-total		= Shs.546,000.

2. Preparation of Record Drawings.

a) Analysis of existing Structure, Circulation, and Functional Plans	22 sites @ Shs.10,000 per site	= Shs. 220,000.
b) Layout Plan Preparation.	22 sites @ Shs.40,000 per site	= <u>Shs. 880,000.</u>
Sub-total		= Shs.1,100,000.

3. Transport and Travel.

a) Ground Transport.

i) Makindu Trip			
500 km	@	Shs.8 per km	= Shs. 4,000.
ii) Karatina Trip			
300 km	@	Shs.8 per km	= Shs. 3,200.
iii) Nairobi			
Local Running			
3,000 km	@	Shs.8 per km	= <u>Shs. 24,000.</u>
Sub-total			= Shs. 31,200.

b) Air Charter.

(6 Consultants)

i) Wajir Trip -			
2 days	@	Shs.12,500 p.p.	= Shs. 75,000.
ii) Bungoma Trip			
2 days	@	Shs.13,500 p.p.	= Shs. 81,000.
iii) Kisii Trip			
2 days	@	Shs.14,000 p.p.	= Shs. 84,000.
iv) Malindi Trip			
2 days	@	Shs.11,000 p.p.	= Shs. 66,000.
Sub-total			= <u>Shs.306,000.</u>

c) Subsistence.

i) 6 Consultants x			
14 nights out	@	Shs.1,000 p.n.	= <u>Shs. 84,000.</u>
Sub-total			= Shs. 84,000.

4. Report Printing.

a) 2 Draft Reports	@	Shs.15,000.	= Shs. 30,000.
b) 10 Final Reports	@	Shs.15,000.	= Shs.150,000.
Sub-total			= <u>Shs.180,000.</u>

GIDEON-CYRUS MAKAU MUTISO

- Address: Mutiso Consultants Ltd.,
P.O. Box 14333,
Westlands,
NAIROBI.
- Telephone: Office - 747010
Home - 501780
- Date of Birth: November 1942.
- Place of Birth: Kangundo, Kenya.
- Marital Status: Married. Three children.
- Education: B.A. Political Science - 1965 (Cum Laude)
Parsons College, Fairfield, Iowa.
- M.A. Political Science - 1966.
University of Kansas, Lawrence, Kansas.
- Thesis Topic: "The use of Economic and Political Development
as Ideology in Kenya, 1952 - 1963".
- Ph.D. Political Science - 1968.
Syracuse University, Syracuse, New York.
- Thesis Topic: "Socio-political Ideas in Africa Literature
in English, 1945 - 1967".
- Teaching Experience:
1. Tutor. Department of Government, Parsons College, Fairfield, Iowa, 1965.
 2. Tutor. Department of Political Science, University of Kansas, Lawrence, Kansas. Summer, 1966.
 3. Lecturer. Program of East African Studies, Syracuse University, Syracuse, New York. Summer 1967.
 4. Lecturer. Program of East African Studies Syracuse University Syracuse, New York. Summer 1966.
 5. Assistant Professor: African Politics, Montclair State College, Montclair, New Jersey. September, 1968 - June 1969.
 6. Adjunct Assistant Professor. African Politics. St. John's University, Jamaica, New York. Spring 1969.
 7. Assistant Professor. African Politics, Rutgers University, New Brunswick, New Jersey. September 1969 - June, 1970.
 8. Lecturer, Department of Government, University of Nairobi, June, 1970 - 1972.
 9. Senior Lecturer, Department of Government, University of Nairobi, September, 1972 - 1976.
 10. Associate Professor. Department of Government, University of Nairobi 1976 - 1979.

- Subjects Taught:
1. American Government - Undergraduate.
 2. African Social and Political Theory - Graduate.
 3. Introduction to Political Science - Undergraduate.
 4. Governments of South-East Asia - Graduate.
 5. Comparative European Governments - Graduate.
 6. Contemporary African Politics - Graduate.
 7. African Political Thought - Undergraduate.
 8. Governments of the U.K. U.S.S.R. and U.S.A. - Graduate.
 9. Politics and Literature of the Carribean - Undergraduate.
 10. Comparative Politics of the U.S. and U.S.S.R. - Undergraduate.
 11. Comparative Politics of Post Industrial State (Japan, U.S. and U.S.S.R.) - Undergraduate.
 12. Issues in African Public Policy - Undergraduate.

Administrative Experience :

- a) Deputy Director - Diplomacy Training Programme 1973 - 1974.
- b) Assistant Managing Editor, Daily Nation 1979 - 1983.
- c) Managing Director, Mutiso Consultants Ltd. 1983 - Date.

Consultancies:

1. Consultant: Food Distribution - Accelerated Development Program, UNICEF. 1984.
2. Consultant: Management of District Focus: GoK. Office of the President : Development Coordination and Cabinet Office, 1984.
3. Consultant : Commodity Imports : Swedish Development Cooperation Office, 1984.
4. Consultant : -Funding Culture : Ford Foundation, 1984.
5. Consultant : University/Industry Manpower Use Linkages : Economic Commission for Africa. 1984.
6. Consultant. District Focus and Kitui Arid and Semi - Arid Programme. To Louis Berger/USAID and GoK. 1983.
7. Honey Exports - Private Sector, 1984.
8. Consultant: Government of Kenya/World Bank, Second Urban Project. Kenya Low Cost Housing By Laws Study - 1979.
9. Consultant: Government of Kenya/CID/USAID Marginal Semi-Arid Lands Preinvestment Inventory. Institutions Report No. 7, 1978.
10. Consultant: IDEP/ENDA, Clark University, Drought Data 1976 (Dakar).
11. Consultant: ILO/ARLAC Labour Training, Arusha, 1976.

12. Consultant: Kenya Government National Committee on Educational Objectives and Policies, 1976.
13. Consultant: Unesco Methods and Analysis Division, Paris. 1974.
14. Consultant: World Council of Churches CCPD Division, 1974 (Geneva).
15. Consultant: Education and Development. All Africa Conference of Churches, 1972.
16. Consultant: Kenya Government Special Rural Development Evaluation Team, 1972.
17. Consultant: Kenya Government Employment Mission, ILO/UNDP 1971/1972.
18. Consultant: General African Programme Urban Institute Montclair State College, Upper Montclair, New Jersey - 1969.
19. Consultant: General African Programme New Jersey Urban Education Corps, Camp Kilmer, Edison, New Jersey. 1969.
20. Consultant: Urban Institute, Montclair College.
 - a) Reading Programme Evaluation. 1969.
 - b) Development of Social Science and Literary Materials for use in the TRY and Upward Bound Programmes 1969.
21. Consultant: New Jersey Urban Education Corps. Development of Africa Materials and Training of Teachers Teaching History. 1969.
22. Consultant: New Brunswick Board of Education. Development of African Materials for use in Grades K-7th. Under contract to New Jersey Urban Schools Development Council. 1969.

Address: Box 54634,
NAIROBI.

Date of Birth: 6th November, 1948.

Nationality: Kenyan.

Marital Status: Married with 4 children.

Primary &
Intermediate
Education:

1. Katoloni Primary School, 1955 - 1958.
2. Muthini Intermediate School, 1959 - 1962.

Secondary
Education
'O' Levels:

Machakos School, 1963 - 1966.

Higher
Education:
'A' Levels:

Kangaru School, 1967 - 1968.

University
Education:

1. University of Nairobi, School of Architecture,
Graduate with B.A. (Architecture) 1969 - 1972.
2. University of Nairobi, School of Architecture,
Graduated with Master of Architecture, 1973 - 1974.

Professional
Practice:

1. Sat for Part III EAIA/RIBA finals and passed, 1974.
2. Registered as an Architect under the Architects and
Quantity Surveyors Act, Cap. 525, (Kenya Laws).

Work
Experience:

1. Trainee Architect. East African Posts &
Telecommunications Corporation, 1969 - 1972.
2. Pupil Architect. East African Posts &
Telecommunications Corporation, 1972 - 1974.
3. Architect. East African Posts & Telecommunications
Corporation, 1975.
4. Regional Architect. East African Posts &
Telecommunications Corporation, 1975 - 1977.
5. Chief Architect. Kenya Posts & Telecommunications
Corporation, 1978 - 1981.
6. Personally responsible and incharge of estimating,
programming, designing and supervising construction
of distributed building works worthy Shs.500 million
These works comprised housing complexes, offices and
depots, Post Offices and Telephone Exchanges for the
defunct East African Posts and Telecommunications and
Kenya Posts and Telecommunications Corporation, 1975 -
1981.

Honours &Appointments:

1. Kenya's representative at the International Union of Architects Headquarters in Paris, 1979.
2. International Union of Architects' permanent representative at Unep Governing Council, UNCHS (HABITAT) 1979.
3. Member, Board of Registration of Architects and Quantity Surveyors, 1980.
4. Awarded a certificate of the Institute of Land Policy at Harvard University, 1980.
5. Elected Vice - Chairman, Architectural Association of Kenya, 1981.
6. Awarded a certificate by the International Union of Architects in Warsaw, 1981.
7. Elected to the Supreme Council of the International Union of Architects during the Katowice General Assembly, 1981.
8. Representative of the International Union of Architects at the United Nations Conference on New and Renewable Sources of Energy (UNCRSE) 1981.
9. Member of UIA, Habitat Permanent Work Group, 1981.
10. Awarded a Medal of recognition by the Architects of Spain (Arquitectos de Espana) 1981.
11. Elected Chairman, Architectural Association of Kenya, 1982.
12. Re-elected Chairman, Architectural Association of Kenya, 1983.
13. Member, Board of Registration of Architects and Quantity Surveyors of Kenya, 1983 to date.
14. Elected Honorary Architect of Chile, 1983.

Projects Done
for International
Organizations:

1. Design and supervision of construction of 15 No. Microwave Telecommunication Stations (1974 - 78) for East African Posts and Telecommunications Corporation -GoK. of Japan.
2. Survey of route design and supervision of construction work of 6 No. Radio stations (1978 - 1980) for the Kenya Posts and Telecommunications Corporation - IBRD.
3. Survey of route, design and supervision of part of construction of work of 9 No. Radio stations (1980 - 1981) for the Kenya Posts and Telecommunications Corporation - GoK. of Netherlands.

4. Telecommunications Project in North East Kenya for the Kenya Posts and Telecommunications Corporation - GoK. of France.
5. Urban Three Housing Project (Nakuru) - IBRD.
6. A School for the Physically Disabled in Machakos - NOVIB Netherlands.

NICHOLAS MUNYAKA NZIOKI

Date of Birth: 3rd August, 1954.

Nationality: Kenyan.

Qualifications: B.A. in Land Economics, Nairobi, 1977.
M.Sc. in Construction Management (Maintenance Option)
Reading, 1981.
Thesis Topic: A Study on Budgetary Control Systems for
Building Maintenance Management.

Work

Experience:

1. Surveyor for Kenya Government. MOW. 1977 - 1983.
Duties included Estimating, Preparation of Claims,
Preparation of contract documents, and overall financial
Administration of Building Maintenance Contracts.
2. Lecturer in the Dept. of Land - Development, Faculty of
Architecture, Design and Development in Building
Management, and Construction Technology, 1983 - to date.

Subjects Taught:

1. Management Theory.
2. Management Systems.
3. Organizational Behaviour.
4. Human and Industrial Relations in Construction.
5. Construction Engineering and Management.
6. Construction Economics.
7. Techniques of Project Planning and Control.
8. Operations Analysis for Work Improvement in
Construction.
9. Computer Applications in Construction.
10. Construction Financing in Real Estate and Land
Development.

Professional
Institution:

A full member of the Institution of Surveyors of Kenya,
(MISK).
Associator of the Institute of Construction Management
in England (AICM).

Papers:

1. An Overview of the Management Organizational Structure
of the Ministry of Works, Kenya Government.
R.I.C.S. Seminar, Reading, July, 1981.
2. Budgeting and Budgetary Control in Construction Project
Management:
ILO/NCC. Seminar on Construction Management, Oct. 24 - 28,
1983. Serena Hotel, Nairobi.
3. An Introduction to Human and Industrial Relations in
Construction, Project Management.
ISK Seminar, Professional Centre, Nairobi, Oct. 22,
1983.
4. Project Cost Control in Construction Management.
International Conference on Low Cost Housing for
Developing Countries, Roorkee, India. Nov. 12 - 17,
1984.

JOHNSTONE MUTISYA KIAMBA

Address: Box 61089,
NAIROBI.

Date of Birth: July, 1952.

Place of Birth: Machakos, Kenya.

Marital Status: Married. Two children.

Education: B.A. (Sociology) - University of Nairobi, 1977.
M.A. (Planning) - University of Nairobi, 1979.

Employment: 1. A Physical Planning Officer, Government of Kenya,
1979 - 1983.
2. Lecturer, Department of Urban and Regional Planning,
Faculty of Architecture, Design and Development.
University of Nairobi, 1983 - to date.

Subjects Covered:

1. Planning Principles and Techniques.
2. Resource Management.
3. Management Techniques.
4. Land use Determinants.
5. Socio - Economic Indicators.
6. Infrastructural Planning.
7. Environmental Planning.
8. Housing and Community Facilities.
9. Planning for Engineering Services.

Professional: Member of the Architectural Association of Kenya
(MAAK).

SUMANT AMRATLAL DESAI:

- Address: Box 54634,
NAIROBI.
- Date of Birth: 1942.
- Nationality: Kenyan.
- Education: University of Bombay, Dip. Arch, 1966. B. Arch, 1967.
- Professional Qualifications:
1. Corporate Member of the Uganda Society of Architects.
 2. Associate of the Indian Institute of Architects.
 3. Registered Architect, Architects Registration Board, Tanzania.
 4. Registered Architect, Council of Architecture, New Delhi, India.
- Work Experience: Assistant Architect - Municipal Council of Mombasa, 1967 - 1968.
- Work Undertaken:
1. Design and Supervision of council's school building programme.
 2. Design and Supervision of Extensions to Town Hall Municipal Council of Mombasa.
 3. Supervision of Tudor Housing Estate, Mombasa.
- Senior Architect and Team Leader - Chudha and Pawa, Architects, Kenya/Uganda, 1968 - 1972.
1. Design and Supervision of Motor Mart and Exchange Industrial area workshops and office building.
 2. Supervision Architect for Lower Hill Flats for National Housing Corporation.
 3. Design Team Leader for District Headquarters at Iten.
 4. Design Team Leader for Taita Hills and Salt Lick Lodges, Taita Hills.
 5. Design Team Leader for Makerere University, Faculty of Engineering, Kampala, Uganda.
 6. Worked on 2nd award winning, design team, Bank of Uganda.
 7. Worked on several design competitions organised by Government of Uganda.
 8. Worked with design team for N.H.C. Headquarters, Nairobi.

Senior Partner - Dee Kay Consult, 1973 - to date.

1. Designed, Detailed, and Supervised several Executive Residences in and around Nairobi and Mombasa.
2. Designed, Detailed, Supervised social centres, schools and dairy with NOVIB Project in Western Kenya at Mbooni, Machakos District.
3. Designed and Supervised Mary Leaky Girls, Home Economic Block, with aid from NOVIB, Nairobi.
4. Designed, Detailed and Supervision Housing and Hostel for Coffee Research Station, Ruiru, Ruiru.
5. Designed and executed 16 numbers executive maisonnettes on Timau Road, Nairobi.
6. Designed offices, laboratories and housing schemes for E.A.F.F.R.O. in Kisumu, Kenya, Tanga and Mwanza, Tanzania for the East African Community.
7. Designed a sisal factory along with complete housing, Social Hall shopping centres etc., in Somalia.
8. Designed 12 numbers executive Flats in Nairobi.
9. Designed multi-storey office block with three basements, conference facilities, and office accommodation upto 26 storeys in Kampala, for Uganda Co-operatives.
10. Designed multi-storey office block and arranged finances for Agricultural and Industrial Holdings, Nairobi.
11. Designed several Industrial Buildings with multi-storey office accommodation in Nairobi.
12. 128 units Executive Housing Scheme with all Civil Works in Kisumu.
13. Presently completed design of 50 cottage hospital in South Nyanza.
14. Undertaken to design another 50 bed private hospital in Malindi.
15. Completed design of 100 bed motel in South Nyanza presently negotiating finance for the same.
16. Designed a bakery for Kiambu Town complete with machinery and equipment design.

GEOFFREY NGUNGI MWAU.

Address: Department of Economics,
University of Nairobi,
Box 58426,
NAIROBI.

Telephone: Office: 334244 Ext. 2122.

Date of Birth: 11th November, 1957.

Place of Birth: Kilungu, Machakos District.

Marital Status: Single.

Academic
Background:

1. Bachelor of Arts Degree (Economics). First Class Honours - University of Nairobi, 1981.
2. Master of Arts Degree (Economics) University of Nairobi, 1984.

Thesis Topic: "The Impact of Foreign Capital Inflows on the Kenyan Economy".

Major Field: International Trade.

Other Fields: Monetary Economics.
Development Economics.

Research
Experience:

1. Research Assistant: Medical Research Centre, 1979 and 1980.
Research Topic: An Evaluation of Patients' Satisfaction from Medical Services in Kangundo Hospital.
2. Research Assistant: World Bank Project.
Research Topic: Education, Incomes and Employment in Kenya, 1979.
3. East Africa Industries: Market Survey Project on Oils, Soaps and Detergents, 1980.
4. Development of a Macro-economic Policy Model for Kenya at the Ministry of Planning and Economic Development (Participant) 1981 - 83.

Working
Experience:

1. Teacher - Kivani Secondary School - Machakos, 1978.
2. Tutorial Fellow - Department of Economics, University of Nairobi, 1984 - date.

