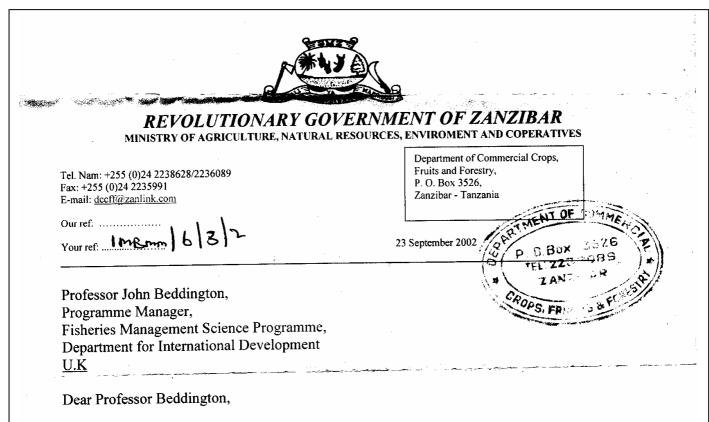
### 6. APPENDIX

### 6.1 Bibliography

- Anderson, J.D. 1994. The interaction between artisanal and fish aggregation devices (FADs). Unpub. Final Report. FMSP Programme, ODA. MRAG Ltd., London.
- Anderson, J.D. & Gates, P.D. 1996. South Pacific Commission Fish Aggregating Device (FAD) Manual. Vol. 1. Planning FAD Programmes.
- Anderson, J.D., Baxter, S & Richmond, M.D. 2001. Exploring opportunities for artisanal fishers in Zanzibar. A funding proposal to CCAfrica.19pp.
- Beckley, L. E., Govender, A., Mann, B.Q. & van der Elst, R.P. 1997. Tanga Coastal Zone Conservation and Development Programme Consultancy: Artisanal Fisheries Management Strategy. (First draft). ORI, Durban, South Africa. 35pp.
- Bergstrom, M. 1983. Review of experiences with and present knowledge about fish aggregating devices. Bay of Bangal Programme. Working Paper No. 23. Madras, India.
- Hemphill, S. 1995. The ecology and exploitation of yellowfin tuna *Thunnus albacares* (Bonnaterre, 1788) in the Pemba Channel, Kenya. PhD thesis, University of Wales Bangor. 269pp.
- Horrill, J. C. Kalombo, H. and Makoloweka, S. 2001 *Collaborative Reef and Reef Fisheries Management in Tanga, Tanzania.* IUCN East Africa Programme. 37 pp.
- Iversen, S.A. Myklevol, S. Lwize, K. & Yonazi J. (1984) Tanzanian Marine Fish Resources in the depth regions 10 –500m investigated by R/V 'Dr. Fridtjof Nansen' Presented at the joint Tanzanian/Norwegian Seminar to review the marine resources of Tanzania, Mbegani Fisheries Development Centre, Tanzania, 6-8 March 1984.
- Jiddawi, N.S. 1997. The Reef-dependent Fisheries of Zanzibar. In: Proceedings of the National Conference on Coral Reefs, Zanzibar, Tanzania. December, 1997.
- Jiddawi, N.S. & Muhando, C. 1990. Summary of Marine Resources in Zanzibar. Zanzibar Environmental Study Series No. 1 of 1990. Commission for Lands and Environment, Zanzibar.
- Jiddawi, N.S. & Ohman, M.C. 2002. Marine Fisheries in Tanzania. Ambio. 7-8. 518-527.
- Khatib, A H. 1997 The importance of Tourism to Coral Reefs on Zanzibar. Coral Reefs: Values, Threats and Solutions. Proceedings on the National Conference on Coral Reefs. Zanzibar, Tanzania
- Knox, D. 1999. Status of the large pelagic fisheries in Nungwi. SIT Coastal Ecology. IMS/SIT Reports. 35pp.
- Lyimo, E., Juma, B.A., Bhai, I.O. & Juma, A.H. 1997. Report on the fisheries frame survey conducted in Unguja and Pemba. Smallholder Support Project Zanzibar. Fisheries Sector. Field Document no. 3. 37 pp. + Annex I.
- MALNR, 1998. Fisheries Policy for Zanzibar (draft).
- MNRNT, 1997. National Fisheries Sector Policy band Strategy Statement. Ministry of Natural Resources and Tourism. Government of Tanzania Printers. 24pp.
- Narayan, D. 1997. Voices of the poor: poverty and social capital in Tanzania. Environmentally and Socially Sustainable Development Studies and Monograph Series 20. World Bank.
- NBS, 2002. Household Budget Survey 2002/01; Final Report. National Bureau of Statistics Tanzania. Colour Printing Tanzania Ltd.

- Richmond, M.D. 1999. Data collected by fishers provides insight into the fishery for large pelagic species in the southern Pemba Channel. p. 112-124. *In*: Jiddawi, N. & Stanley, R.D. (eds.) *Fisheries Stock Assessment in the Traditional Fishery Sector: The Information Needs.* Proc. Nat. Workshop on the Artisanal Fisheries Sector, Sept. 22-24, 1997, Zanzibar, Tanzania. UDSM/CIDA (Canadian International Development Agency).
- Richmond M.D. & Mganwa, G.R. 1994. Matemwe Fishing Cooperatives Monitoring Programme. Report No. 1. Preliminary Findings - April to August. Unpublished report, IMS (UDSM). 22pp.
- Richmond, M.D. & Mganwa, G. R. 1995. Involvement of local fishermen in data collection on the East coast of Unguja, Zanzibar, and the importance for management. 9 pp. Presented at the National Workshop on Integrated Coastal Zone Management, Zanzibar, Tanzania. May 8-12, 1995. World Bank/SAREC.
- RFIS, 2002. Macrolevel analysis of Tanzania fisheries information system. SADC/DFID RFIS Project. 32pp.
- Sadler J.D. 1973 Tuna Investigations. In Annual Report 1973, East African Marine Fisheries Research Organisation, Zanzibar 19.
- Scullion. J. 1989. Assessment of the Coastal Pelagic Fish Resources of Lindi and Mtwara Regions, Tanzania 1983 – 1988.
- Tarbit, J. 1984. Inshore fisheries of the Tanzania coast. p. 29-44. *In*: Iversen, S.I & Myklevoll, S. The Proceedings of the NORAD-Tanzania Seminar to Review the Marine Fish Stocks and Fisheries in Tanzania. Mbegani, Tanzania, 6-8 March 1984. TAFIRI/NORAD, Bergen.
- Thorp, C.H 1964 . surface Shoaling Pelagic fish. In Annual Report 1964, East African Marine Fisheries Research Organisation, Zanzibar 7-9.
- UNEP, 2001. Eastern Africa Atlas of Coastal Resources. UNEP/UDSM/DGIC. 111pp.
- URT, 2000a. Action Programme for the Development of Tanzania 2001-2010. Presentation of the Government of Tanzania at the United Nations Conference on the Least Developed Countries. Brussels, June 15<sup>th</sup>, 2000.
- URT, 2000b. Mafia Island Marine Park. General Management Plan. Oct. 2000. United Republic of Tanzania. Min. Nat. Res. & Tourism. 68pp.
- URT, 2001. Marine Frame Survey, 2001. Frame Survey Results for Marine Waters; Ministry of Natural Resources and Tourism. Government of the United Republic of Tanzania.
- URT/UN, 2001. United Nations Development Assistance Framework 2002-2006.
- Van der Elst, R. et al..... Khatib, A H. 1997 The importance of Tourism to Coral Reefs on Zanzibar. Coral Reefs: Values, Threats and Solutions. Proceedings on the National Conference on Coral Reefs. Zanzibar, Tanzania.
- Wagner, G. (1997) Impact of Fishing (including dynamite fishing) on Coral Reefs. In: Proceedings of the National Conference on Coral Reefs, Zanzibar, Tanzania. December, 1997.



## Re: Fisheries Management Science Programme - Proposal for the Assessment of Livelihood Assets Required for FAD Programmes in East Africa

Reference is made to the above mentioned subject.

Over the years the Natural Resource Sector of the Ministry of Agriculture, Natural Resources, Environment and Cooperatives in Zanzibar has engaged with members of the Samaki Consultants Ltd. in undertaking several assignments in the isles of Zanzibar. These include Pemba channel, Menai bay and northeast coast of Zanzibar. We believe that the company under the directorship of Dr. Richmond has the ability to carry out the proposed assessment effectively.

We are very happy that the initiatives we made 1990s in the development of FADs in Zanzibar with inputs from Dr Richmond. We believe that this is line with the DfID priorities as well as the Zanzibar livelihood improvement programme for fishing communities.

MENT OF Yours since yely. Dr. Bakari & Asseid, 236089 Director. Department of Commercial Zanzibar. 15 a FOR



Western Indian Ocean Marine Science Association (WIOMSA) 6.1.1.1.1.1.1 P. O. Box 3298, Zanzibar, TANZANIA Tel. ++ 255 24 2233472/2234597 Fax. ++ 255 24 2233852 Email: secretary@wiomsa.org Website: www.wiomsa.org

25<sup>th</sup> September 2002

Professor John Beddington Programme Manager Fisheries Management Science Programme Department for International Development

Dear Professor Beddington,

## Re: Fisheries Management Science Programme - Proposal for the Assessment of livelihood assets required for FAD programmes in East Africa: Letter of Support

With regard to the above subject, I would hereby like to offer my full support to Dr M. Richmond of the Samaki Consultants Ltd., Dar es Salaam, in their undertaking of this proposed assessment.

I have known Dr Richmond since 1990 when he started working in the Western Indian Ocean region and ever since we have been working closely in a number of projects and activities. Since 1990, he has been involved in initiating new projects, coordination and implementation as well as monitoring and evaluation of different activities in the Western Indian Ocean region, particularly Tanzania. He has proved to be very competent and efficient in his activities.

This proposal which aims at assessing the viability, use and benefits of Fish Aggregation Devices (FADs) in Tanzania is very timely and is not only in line with the WIOMSA's priority research agenda, but more importantly it addresses issues which are of priority to Tanzania and the region as a whole. The region is putting more emphasize on proposals that are aiming at poverty alleviation.

We support the development of FADs in Tanzania, and believe the development of such a programme would greatly help in raising the livelihood assets of the target communities and if successful the knowledge and experience gained to be shared across the region.

Having worked with Dr Richmond for many years and I have confidence in his ability to undertake this proposal effectively.

If more information is needed about Dr Richmond, please do not hesitate to contact me.

Yours sincerely,

Dr Julius Francis EXECUTIVE SECRETARY

#### THE UNITED REPUBLIC OF TANZANIA MINISTRY OF NATURAL RESOURCES AND TOURISM THE BOARD OF TRUSTEES FOR MARINE PARKS AND RESERVES

MAFIA ISLAND MARINE PARK

P.O. BOX 74 MAFIA



Tel: 023 2402690 Fax: 023 2402526 mimpmafia@bushlink.co.tz

Dr Matthew Richmond Samaki Consultants Ltd PO Box 77143 Dar es Salaam 17 March 2003

Dear Dr Richmond

## RE: STUDY TO ASSESS LIVELIHOOD ASSETS FOR FAD PROGRAMMES IN EAST AFRICA

We are pleased to confirm that we support your study to assess livelihood assets for a deep-water fish aggregating device (FAD) trial in Mafia Island. Such a trial would be highly complementary to existing efforts by Mafia Island Marine Park (MIMP) to promote sustainable fishing practices and relieve pressure on over-exploited, nearshore coral reef fisheries.

MIMP currently receives financial support from the Worldwide Fund for Nature (WWF) and the UK Department of International Development (DFID) for a broader programme of sustainable development of marine resource-based livelihoods. Within this, MIMP is providing technical & financial support to artisanal fishers to develop more sustainable and profitable fishing techniques. Principally this involves fishing in deeper waters using hook-and-line and gillnets. Successful introduction of one or more fish aggregating devices could provide a powerful boost to the effectiveness of this programme. MIMP has committed funds from WWF/DFID up to June 2004 and it is likely that support will be extended for 2 further years. MIMP would also consider contributing the cost of an additional FAD to maximise the impact of a trial. Beyond this, MIMP can provide institutional support to facilitate preparation, installation and monitoring.

Once again we warmly commend the study and look forward to the prospect of further co-operation in the event that it receives positive consideration elsewhere. We hope it may lead to the development of a FAD programme that includes Mafia Island.

Yours sincerely,

GD Msumi Warden-in-Charge Mafia Island Marine Park

onth

Jason Rubens WWF Technical Adviser Mafia Island Marine Park

# UNIVERSITY OF DAR ES SALAAM

Dean's Office

FACULTY OF AQUATIC SCIENCES AND TECHNOLOGY

Telephone: 255 22 2410462 Fax: 255 22 2410480 E-mail: deanfast@udsm.ac.tz



Address: P.O. Box 35064 Dar es Salaam TANZANIA

Date: September 21, 2002

Professor John Beddington Programme Manager Fisheries Management Science Programme Department for International Development

Dear Sir,

Our Ref.

## Re: Fisheries Management Science Programme: Proposal for the Assessment of livelihood assets required for FAD programmes in East Africa

With regard to the above subject, we would be pleased to support Samaki Consultants Ltd., Dar es Salaam, in their undertaking of this proposed assessment. We have worked with Dr Richmond of Samaki Consultants several times in the past and have confidence in his ability to undertake this proposal effectively.

We support the development of FADs in Tanzania, and believe the development of such a programme would greatly help in raising the livelihood assets of the target communities.

Yours sincerely,

Prof. Yumus D. Mgaya DEAN FACULTY OF AQUATIC SCIENCES AND TECHNOLOGY



### THE REVOLUTIONARY GOVERNMENT OF ZANZIBAR MINISTRY AGRICULTURE, NATURAL RESOURCES, ENVIRONMENT AND CO-OPERATIVE

FAX NO. +024 2233206 TEL. 2233206/2239623 E- mail: YOUR REFERENCE ......

OUR REF: IUMB/1/26

DEPARTMENT OF FISHERIES AND MARINE RESOOURCES S.L.P 774 ZANZIBAR

DATE: 23/10/2002

Professor John Beddington Programme Manager Fisheries Management Science Programme Department for International Development

23<sup>nt</sup> October 2002

Dear Professor Beddington,

#### RE: FISHERIES MANAGEMENT SCIENCE PROGRAMME PROPOSAL: LIVELIHOOD ASSETS REQUIRED FOR AN EAST AFRICA FADs PROGRAMMES.

With regard to the above subject, we would be pleased to support Samaki Consultants Ltd. Dar es Salaam, in their undertaking of the proposed assessment. We have worked with Dr Richmond of Samaki Consultants several times in the past and have confidence in his ability to undertake this proposal effectively.

Support for the development of Fish Aggregation Devices (FADs) is identified as a policy strategy, as is the objective to encourage offshore fishing, since we believe the development of such a programme would greatly help in raising the livelihood assets of the target communities.

el. 22376;

ANZIBAR

Your sinderely, mm

Saleh Sadiq Osman Director of Fisheries and Marine Resources Zanzibar

cc. Dr Chris Mees

Fisheries Management Science Programme (FMSP) Department for International Development (DfID)

## 6.3 Policy brief