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**UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION
ORGANISATION DES NATIONS UNIES POUR LE DEVELOPPEMENT INDUSTRIEL**

Final Report covering July 2012 – September 2014

Project number: TE/SUD/12/004 (SAP ID 120174)

Date of report: 19 February 2015

Title of Project/Programme Component: Surveys of renewable marine resources in the Red Sea State, Republic of the Sudan.

Dates of previous progress report: 11 March 2014

Objective of the project:

The main objectives of the project are to supply new and updated information on renewable marine resource in the Republic of the Sudan's coastal waters, to strengthen capacities and to build the opportunities for the transfer of knowledge and know-how. This will form the knowledge base required for the modernisation of the Sudanese artisanal marine fisheries as well as for the development of a sustainable semi-industrial fishery in the Republic of the Sudan.

The project was originally planned as a two-year project (2012-2013) with a Norwegian contribution amounting to € 770,207.6. This would have allowed training counterparts while carrying out two identical and comprehensive trap surveys at different times of the year to cover both the winter and the summer which is the spawning period for many fish species as well as one trawl survey.

Since the competitive international tender carried out by UNIDO and subsequent field investigations could not identify a suitable vessel for the implementation of the trawl survey and given that trawling activities have been suspended in the Extended Economic Zone of the Republic of the Sudan until further notice, output 2 of the project document could not be implemented.

Following up on a request by the Marine Fisheries Administration it was agreed with the Ministry of Agriculture and Animal Resources and the Embassy that funds earmarked for the implementation of the trawl survey should be used to contribute towards the cost of the implementation of one additional trap survey in November 2013. Furthermore the Royal Norwegian Embassy agreed to provide NOK (€ 262,810 as incremental funding required for the implementation of the additional trap survey and an independent external evaluation.

Encouraged by the results achieved under this project the Ministry of Agriculture and Animal Resources of the Republic of Sudan has mandated UNIDO and the Norwegian Institute of Marine Research to discuss the possibilities to grant further support for the development of a sustainable marine fishery with the Norwegian Embassy Khartoum in a note Note Verbale dated 15 January 2013. The Norwegian Embassy was favourable to this request and has granted UNIDO an extension of the project implementation period at no additional costs until the end of September 2014.

Overall progress in achievement of the project's objective: 100%

Main activities conducted and achievements in the reporting period (1 July-31 December 2012):

For the reporting period the project document foresaw two main activities:

- a) The implementation of a 30 days at sea winter trap survey (1-30 November 2012)
- b) The implementation of a 5 days at sea trawl survey (November 2012)

a) The 30 days at sea winter trap survey was implemented as planned and the following activities were carried out:

- Contracts for the charter of the vessel for the implementation of the trap surveys (M.V. Don Questo) and for the provision of substance matter expertise and collapsible traps by the Institute for Marine Research (IMR) were established by UNIDO
- A detailed plan for the winter trap survey (1-30 November 2012) was developed by the Institute for Marine Research (IMR)
- The design for tailor made collapsible traps was developed and 25 collapsible traps of different sizes were produced
- Fishing gear (gill nets, long lines, ropes, floats etc) and other materials needed for the traps survey as specified in the project document were procured by UNIDO
- Transport of traps, fishing gear and other materials and import of materials to Sudan was organized by UNIDO
- Consumables (ice, bait and fuel for the MFA vessel) for the implementation of the traps survey were procured by UNIDO
- The vessel provided to the Marine Fisheries Administration under the CIDA funded UNIDO project “recovery of coastal livelihoods in the Red Sea State through the modernization of artisanal fisheries and creation of new market opportunities” was fitted with additional equipment (echo-sounder, hydraulic system, gill net roll, weather station) to make it suitable for the implementation of a trap survey
- 39 National Experts from the Marine Fisheries Administration, Red Sea Research Institute, Red Sea University and the Sudanese Navy were trained by experts from IMR in the preparation and implementation of a trap survey as well as in on board/at sea data collection and analysis during the survey
- Post survey meeting conducted by IMR experts
- Technical assistance and monitoring missions were carried out jointly by IMR and UNIDO experts
- Footage for a promotional video was collected by a UNIDO media expert

b) The trawl survey could not be implemented as planned since at present no commercial trawling activities are taking place in the EEZ of the Republic of the Sudan and no trawling company complying with the necessary minimal safety and technical standards submitted an offer in the competitive international tender process launched by UNIDO.

Activities carried out from 1 July to 31 December 2012

Planned Activity for the period July-December 2012 (as per initial project document)	Output produced or service delivered	Outcome observed	Remaining activities/ actions
OUTPUT 1: national counterparts trained in trap survey techniques (preparation and implementation) and in at sea/on board analysis during a 30 day winter trap survey	30 day at sea winter trap survey implemented from 1-30 November	First set of data on renewable marine resources in the RSS provided and counterparts from Marine Fisheries Administration, Department of Fisheries of the Faculty of Marine Sciences and the Red Sea Research	Activities falling under output 1 were completed to 100 %, It was proposed to shift the focus
	39 national counterparts trained in trap survey techniques and in on board/at sea analysis		

Planned Activity for the period July-December 2012 (as per initial project document)	Output produced or service delivered	Outcome observed	Remaining activities/actions
<u>OUTPUT 2</u> : national counterparts trained in trawl survey techniques during a 5 day winter trawl survey	Output could not be delivered since no suitable trawling vessel complying with minimal safety and technical standards is available for work in Sudan	Institute trained in the preparation and implementation of surveys, the analysis of survey data	of activities in 2013 on the building of institutional capacities around the trap based survey concept
<u>OUTPUT 3</u> national counterparts trained in trap survey techniques (preparation and implementation) and in at sea/on board analysis during a 30 day summer trap survey	Contract to charter the Don Questo for the period 27 May – 25 June 2013 established	Don Questo secured for the implementation of the summer trap survey	Implementation of the survey and training of national counterparts in trap survey techniques in May/June 2013

Main activities conducted and achievements in the reporting period (1 January-30 June 2013):

For the reporting period the project document foresaw one main activity:

- a) The implementation of a 30 days at sea summer trap survey (27 May-25 June 2013)

a) The 30 days at sea summer trap survey was implemented as planned and the following activities were carried out:

- In follow-up of the requests made by the Marine Fisheries Administration in the Minutes of Meeting (10 November 2012) and the Note Verbale from the Ministry for Agriculture and Animal Resources to the Norwegian Embassy in Khartoum (dated 15 January 2013), UNIDO and IMR discussed options for further support towards the establishment of a sustainable marine fishery in the Red Sea State with the Norwegian Embassy. It was agreed that that funds earmarked for the implementation of the trawl survey should be used to contribute towards the cost of the implementation of one additional trap survey in November 2013. Furthermore the Royal Norwegian Embassy agreed to provide NOK 2,250,520 (€ 262,810) as incremental funding required for the implementation of this additional trap survey. In parallel UNIDO and IMR were tasked to elaborate a concept for a five year program for the development of a sustainable marine fishery for the Republic of the Sudan.
- The detailed report on the winter trap survey (1-30 November 2012) was submitted by IMR on 2 April 2012 and approved by UNIDO (see Annex 1)
- A detailed plan for the summer trap survey (27 May-25 June 2012) was developed by the Institute for Marine Research (IMR)
- Additional fishing gear (gill nets, long lines, etc) and three additional specialized traps as well as other materials needed for the traps survey as specified in the project document were procured by UNIDO
- 3 laptops with MS office and manifold GIS software installed, 1 mobile printer and equipment to establish a LAN on board of the Don Questo for the exchange of research data were procured
- Transport of traps, fishing gear and other materials and import of materials to Sudan was organized by UNIDO
- Consumables (ice, bait and fuel for the MFA vessel) for the implementation of the trap survey were procured by UNIDO
- The vessel provided to the Marine Fisheries Administration under the CIDA funded UNIDO project “recovery of coastal livelihoods in the Red Sea State through the modernization of

artisanal fisheries and creation of new market opportunities” underwent a comprehensive overhaul to overcome the problems encountered during the first trap survey (1-30 November 2012). The engine mount, the transmission shaft and the propeller were replaced. Furthermore the vessel was equipped with the necessary communication devices (ship mounted VHF radio and 2 hand held VHF radios) as well as with safety and security devices (comprehensive first aid kit, buoyancy aids, throw line, set of emergency flares, stainless steel ladder to allow re-entering the vessel in a man overboard situation). A salt water pump was procured and installed.

- 34 National Experts from the Marine Fisheries Administration, Red Sea Research Institute, Red Sea University and the Sudanese Navy were trained by experts from IMR in the preparation and implementation of a trap survey as well as in on board/at sea data collection and analysis during the survey
- trainings on the use of the Nansis data base, the use of Manifold GIS and on data processing in MS excel were organized by IMR experts during the survey on board of the Don Questio
- Post survey meeting was conducted by IMR experts
- Technical assistance and monitoring missions were carried out jointly by IMR and UNIDO experts
- Footage for the promotional video was collected by a UNIDO underwater camera man.

Activities carried out from 1 January to 30 June 2013

Planned Activity for the period January-June 2013 (as per initial project document)	Output produced or service delivered	Outcome observed	Remaining activities/ actions
OUTPUT 3: national counterparts trained in trap survey techniques (preparation and implementation) and in at sea/on board analysis during a 30 day summer trap survey	30 day at sea winter trap survey implemented from 27 May-25 June	Second set of data on renewable marine resources in the RSS provided and counterparts from Marine Fisheries Administration, Department of Fisheries of the Faculty of Marine Sciences and the Red Sea Research Institute trained in the preparation and implementation of surveys, the analysis of survey data	Activities falling under output 3 were completed to 100 %, detailed report by IMR due in August 2013 It is was agreed to shift the focus of activities in 2013 on the building of institutional capacities around the trap based survey concept and to implement one additional trap survey in November 2013
	34 national counterparts trained in trap survey techniques and in on board/at sea analysis		

Main activities conducted and achievements in the reporting period (1 July-31 December 2013):

For the reporting period the revised project document foresees two one main activity:

- a) The implementation of a 30 days at sea winter trap survey (5 November -5 December 2013)

b) The implementation of an independent external evaluation of the project, to be carried out during the winter trap survey

a) The 30 days at sea winter trap survey was implemented as planned and the following activities were carried out:

- The detailed report on the summer trap survey (27 May-26 June 2013) was submitted by IMR on 10 September 2013 and approved by UNIDO (see Annex 2)
- A detailed plan for the winter survey (5 November -5 December 2013) was developed by the Institute for Marine Research (IMR)
- Consumables (ice, bait and fuel for the MFA vessel) for the implementation of the trap survey were procured by UNIDO
- 29 National Experts from the Marine Fisheries Administration, Red Sea Research Institute, Red Sea University and the Sudanese Navy were trained by experts from IMR in the preparation and implementation of a trap survey as well as in on board/at sea data collection and analysis during the survey
- Additional trainings on the use of the Nansis data base, the use of Manifold GIS and on data processing in MS excel were organized by IMR experts during the survey on board of the Don Questo
- A 5 day training on the use of MS Excel was organized by UNIDO in September 2013 and attended by 21 national survey participants
- From 4-15 October a mission on catch statistics was carried out by an IMR expert (see Annex 3)
- A post survey meeting was conducted by IMR experts
- Technical assistance and monitoring missions were carried out jointly by IMR and UNIDO experts
- The promotional video was edited and completed

b) The independent external evaluation was implemented and the following activities were carried out:

- Recruitment of an international independent evaluation expert Mr. Cristobal Vignal
- Recruitment of a national independent evaluation expert Ms. Khalda Abuzaid
- Field mission of the independent evaluation team took place from 16-27 November

Activities carried out from 1 July to 31 December 2013

Planned Activity for the period January-June 2013 (as per initial project document)	Output produced or service delivered	Outcome observed	Remaining activities/ actions
OUTPUT 4: national counterparts trained in trap survey techniques (preparation and implementation) and in at sea/on board analysis during a 30 day winter trap survey	30 day at sea winter trap survey implemented from 5 November -5 December	Third set of data on renewable marine resources in the RSS provided and counterparts from Marine Fisheries Administration, Department of Fisheries of the Faculty of Marine Sciences and the Red Sea Research Institute trained in the preparation and implementation of surveys, the analysis of survey data	Activities falling under output 4 were completed to 100 %, detailed report by IMR due in January 2014
	29 national counterparts trained in trap survey techniques and in on board/at sea analysis		

Planned Activity for the period January-June 2013 (as per initial project document)	Output produced or service delivered	Outcome observed	Remaining activities/ actions
OUTPUT 5: Independent Evaluation	The independent evaluation was carried out by a team consisting of an national and an international expert from 16-27 November	Independent evaluation implemented	Independent evaluation report due in February 2014

Main activities conducted and achievements in the reporting period (1 January-30 September 2014):

For the reporting period the revised project document foresees two one main activity:

- a) The preparation of the final evaluation report
 - b) The preparation of the winter 2013 survey report
 - c) The preparation of the final report by IMR including a first description of the status of renewable marine resources in the RSS and preliminary recommendations on the sustainable use of renewable marine resources in the RSS.
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- a) The terminal evaluation report was received on 12 March 2013 (see Annex 4)
 - b) The detailed report on the winter trap survey (5 November -5 December 2013) was submitted by IMR on 2 March 2014 and approved by UNIDO (see Annex 5)
 - c) The final report including a first description of the status of renewable marine resources in the RSS and preliminary recommendations on the sustainable use of renewable marine resources in the RSS was received on 8 December 2014 and accepted by UNIDO (see Annex 6)
 - d) From 25 March -2 April 2014 a joint IMR-UNIDO mission to Port Sudan was carried out to discuss the results achieved with counterparts in the RSS and at Federal level, to hand over the reports completed to date and to discuss the details of a follow-up project with Sudanese counterparts as well as with the Norwegian Embassy.

2. Cooperation with other projects and discussions held with local stakeholders

Given their synergetic development objectives this project “survey of renewable marine resources in the Red Sea State, Republic of the Sudan” was implemented in close cooperation, intensive collaboration and building upon the results and inputs provided through the CIDA funded UNIDO project “recovery of coastal livelihoods in the Red Sea State through the modernization of artisanal fisheries and creation of new market opportunities”. For all three trap surveys winter trap survey (1-30 November 2012), summer trap survey (27 May-26 June 2013) and winter trap survey 2013 (5 November -5 December 2013), the vessel provided to the MFA through the CIDA funded UNIDO project was instrumental for the implementation of the trap surveys. After the technical problems the vessel has encountered during the first winter trap survey in November 2012 is has been subject of a comprehensive overhaul and could be used without any problems in the summer 2013 trap survey.

Unfortunately the MFA vessel once more encountered some serious technical problems during the winter 2013 trap survey. On the 7 November the MFA vessel encountered problems with the propeller shaft and water had been pumped into the engine room through the sea water pump hose. The MFA vessel had to be towed by the Don Questo back to Port Sudan, where the propeller shaft was once more re-aligned. These repair works took three days.

While the Don Questo and the MFA vessel were back in Port Sudan on 19 November to change the team of national participants, additional repair works on the vessel (starter engine and alternator) were carried out. On the 20 November both vessels went back to sea but had to return to Port Sudan once

more when the MFA vessel encountered problems with the diesel pump. These repair works allowed the MFA vessel to operate at slightly limited top speed until the last day of the survey, when the diesel pump once more broke down and the MFA vessel had to be towed by the Don Questo back to Port Sudan. Consequently a comprehensive inspection of the vessel was carried out in 2014 to identify the repair needs. These repairs will be implemented as one of the activities of the follow-up project.

In all three surveys it was assured that at any time of the trap survey at least two representatives from fishing cooperatives established under the CIDA funded UNIDO project were on board the vessel used for the trap survey to further create synergies and to allow for the fastest possible transfer of lessons learned and experience gained in the use of innovative fishing gear from the institutional and academic level (MFA, Red Sea Research Institute, Red Sea University) to the level of practice applied by local fishing communities. All survey participants were exposed to innovative fishing gear and trained in its use. As in the two previous surveys the MFA staff designated to become skippers for the MFA vessel were trained by the consultant recruited by UNIDO as a skipper for the period of the survey.

3. Main problems encountered and measures taken:

The main problem encountered in the implementation of this project concerned the unavailability of a trawling vessel to carry the trawl survey that was foreseen for November 2012.

TORs defining the minimal technical specifications and safety requirements for the trawling vessel were developed in close cooperation between IMR/CDCF and UNIDO.

Besides posting the request for the submission of an offer on the United Nations Global Market Place webpage and on the UNIDO procurement webpage, UNIDO has directly contacted 11 potential vendors from 7 countries (Australia, Canada, Egypt, Japan, Malaysia, United Kingdom, Turkey) on the 3 August 2012. Deadline for the submission of proposals was the 30 August 2012. Upon request of one potential vendor this deadline was extended until 6 September 2012.

Regrettably UNIDO has only received one unsatisfactory response. This response did neither provide any of the information requested on the technical specifications and safety standards of the vessel offered nor did it contain any information on the company, ownership of the vessel or whether the vessel has the necessary permits to operate in the EEZ of the Republic of the Sudan. The response consisted only in mentioning how much the vendor would charge for renting the trawling vessel and to cover the expenses for the implementation of the trawl survey. For these reasons the response must be considered as non compliant to the TORs. In addition the price quoted was well above the available budget.

Therefore it was not possible to implement the trawl survey as planned in parallel to the winter trap survey which took place as planned from 1 to 30 November 2012.

CDCF/IMR and UNIDO discussed possible solutions to implement the trawl survey in parallel to the summer trap survey that will take place as planned from 27 May to 25 June 2013 in preparation of and during their monitoring and technical assistance mission to Sudan in October and November 2012 with national counterparts.

During their monitoring/technical assistance mission in the context of the 2012 winter trap survey experts from IMR and UNIDO were informed that the only trawling operations taking place in Sudan are carried out by a limited number of foreign commercial vessels. Due to administrative bottlenecks in the issuance of licenses no trawling activities took place since 2009. In the present situation, information on the resource base for the traditional artisanal fisheries that can be gained by means of trap surveys is much more important for the development of the marine fisheries sector. Therefore it is advised that the trawling survey be postponed until commercial trawling operations resume since this is the only option to implement a trawl survey without having to occur disproportionately high costs.

It was furthermore observed that the institutional capacities of the national institutions are presently too low to simultaneously implement two different types of survey and to process the data collected.

Consequently and since there are no reliable indications that commercial trawling operations will be resumed during the designated project implementation period it is suggested to shift focus in 2013 on the building of institutional capacities around the present trap based survey concept.

In subsequent meetings between the MFA and the Norwegian Embassy and in consultations with IMR and UNIDO it was agreed that a trawl survey should be implemented as soon as possible. Yet since it will not be possible to implement a trawl survey in 2013, it was agreed that the funds earmarked for the implementation of the 2012 trawl survey should be used in 2013 to contribute towards the costs of the implementation of an additional trap survey in November 2013 and for the provision of the additional equipment as identified in the attached minutes of a meeting between representatives of the MFA, Red Sea Fisheries Research Institute, Red Sea University, IMR and UNIDO(10 November 2012). For the implementation of the additional trap survey additional funds will be required and UNIDO will prepare a detailed budget to be presented to the MFA and the Norwegian Embassy for consideration.

Some major technical problems were encountered with the MFA vessel, which required the implementation of repairs and resulted in the loss of survey days so that not all the stations covered during the 2012 winter and the 2013 summer survey could be covered again during the 2013 winter survey.

To avoid any such problems in future surveys, the MFA vessel will undergo a comprehensive overhaul under the follow-up project. In parallel the Ministry of Agriculture and Animal Resources has agreed to allocate a budget for the operation and maintenance of the MFA vessel to the Marine Fisheries Administration.

The training and capacity building measures implemented as integral part of the trap survey 1-have allowed for a progressively smooth implementation of the trap surveys and considerable progress in all aspects of scientific work and day to day operations on board the Don Questo could be observed.

As observed in the final evaluation report and in the final report prepared by IMR low catch rates for several species were observed, and some commercially important species were not caught at all using baited traps. Based on the experiences made, a combined approach using baited and optical (camera/video) traps supplemented by targeted sampling in the immediate vicinity of the corals by commercial fishermen deploying standard fishing gear (hand line, gillnets) was recommended by IMR for the follow-up project. This approach would enable to sample the species present on and in the immediate vicinity of the corals in a more effective and representative manner. The feasibility of the use of optics will, however, depend on the visibility at the sample locations, and will require added infrastructure and local training. There will also be a need for initial testing, development and modification. On-the-job training of Sudanese scientists and technicians would thus have to be an integral part of any follow-up initiative. In order to develop a viable basis for fisheries assessments of the important species in the long run, it will also be essential to establish time series of catch data from commercial landings. Based on the experiences made in the initial project phase, a proposal for follow-up project addressing these issues was developed in close cooperation between the Sudanese partners, UNIDO and the IMR. A project document outlining the proposal was developed and presented for the Royal Norwegian Embassy in Khartoum in 2014.

4. Financial implementation of the project:

OUTPUT 1: national counterparts trained in trap survey techniques (preparation and implementation) and in at sea/on board analysis during the 30 day winter 2012 trap survey

1.1. Equipment	€ 26.083,83
1.2. Consumables	€ 867,13
1.3. International experts (IMR) incl travel	€ 193.384,18
1.5. National Experts	€ 7.786,46
1.6. UNIDO Travel	€ 10.912,98
1.7. Charter Don Questo	<u>€ 47.798,00</u>
	€ 286.832,58

13% UNIDO support cost contribution	<u>€ 37.288,24</u>
	€ 324.120,82

OUTPUT 2: national counterparts trained in trawl survey techniques during a 5 day winter 2012 trawl survey

No costs occurred since this output could not be realized due to the non-availability of suitable trawling vessel.

OUTPUT 3: national counterparts trained in trap survey techniques (preparation and implementation) and in at sea/on board analysis during a 30 day summer trap survey

1.4. Equipment	€ 14.449,13
1.5. Consumables	€ 3.559,09
1.6. International experts (IMR) incl travel	€ 0 ¹
1.7. National Experts	€ 9.001,41
1.8. UNIDO Travel	€ 6.169,25
1.8. Charter Don Questo	<u>€ 37.235,97</u>
	€ 70.413,85
13% UNIDO support cost contribution	<u>€ 9.153,82</u>
	€ 79.567,67

OUTPUT 4: national counterparts trained in trap survey techniques (preparation and implementation) and in at sea/on board analysis during a 30 day winter trap survey

4.1 Equipment	€ 8.430,54
4.2 Consumables	€ 1.889,50
4.3 International experts (IMR) incl travel	€ 380.225,21
4.4 National Experts	€ 8.384,03
4.5 UNIDO Travel	€ 3.318,06
4.6 Charter Don Questo	<u>€ 42.918,00</u>
	€ 445.165,33
13% UNIDO support cost contribution	<u>€ 57.871,49</u>
	€ 503.036,82

OUTPUT 5: implementation of independent external evaluation

5.1 International experts	€ 15.665,82
5.2 National Experts	<u>€ 1.425,19</u>
	€ 17.081,01
13% UNIDO support cost contribution	<u>€ 2.220,53</u>
	€ 19.301,54

Total expenditures in reporting period:

	€ 323.056,40
13% UNIDO support cost contribution	<u>€ 41.997,34</u>
	€ 365.053,74

Report prepared by:

Christian Susan (PTC/EMB/WMU) MAH for TESUD12004

(PTC/TCB) C.Susan

Name Signature Date

Cleared by Unit Chief PTC/EMB/WMU:

(PTC/TCB) I.Volodin

Name Signature Date

Cleared by Branch Director PTC/EMB

(PTC/TCB) H.Leuenberger

Name Signature Date

List of appendixes:

1. Minutes of meetings held with counterparts including action plan decided (in MS Word and in PDF format with signatures)
2. Agresso Expenditure Report per 31 Dec 2012

Minutes of Meeting

Date: 10 November 2012

Venue: M.V. Don Questo

Participants: Said J. Fadual (MFA), Mamduh Abdalla Osman Ahmed (MFA), Abdalla Nasir Alawad (Red Sea Fisheries Research Institute), Salah Eldeen Yaqub (Red Sea University), Erik Olsen (IMR), Christian Susan (UNIDO)

In the meeting the following points were agreed:

- Due to the non availability of commercial trawlers that can be chartered, the implementation of a trawl survey should be postponed until commercial trawling activities will resume in the EEZ of the coastal waters of the Republic of the Sudan.
- The ongoing project should focus on training activities centered around the trap based survey concept. UNIDO and IMR were tasked to discuss the possibility to obtain additional funding to implement a second winter trap survey in 2013 with the Norwegian Embassy
- To allow the institutions involved in the project to do a proper analysis of the fish data collected during the 2012 winter trap survey training/capacity building inputs and basic equipment (3 lap top computers with MS office licenses and 3 manifold GIS licenses will be required)
- For the implementation of any future trap survey a fiber glass boat allowing beach seining in shallow water should be hired
- The MFA vessel should be fitted with the following additional equipment: Salt water pump, ship mounted VHF, ladder, throwing line, emergency flares, comprehensive first aid kit
- UNIDO and IMR were tasked to discuss the possibility of a follow-up project with the Norwegian element. This project should facilitate the implementation of additional surveys and technical assistance for development of a fisheries/catch statistics. The combined results from additional surveys and fisheries/catch statistics and additional technical assistance would be enable the institutions in charge of marine fisheries to come up with a stock assessment and eventually the development of management plans. An official request will be sent by MFA and the government of the Red Sea State

Said J. Fadual
(Manager MFA Pt Sudan)

Erik Olsen
(Scientific Cruise Leader IMR)

Christian Susan
(Project Manager UNIDO)



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Minutes of Meeting

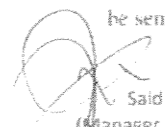
Date: 10 November 2012


Venue: M.V. Don Questo

Participants: Said J. Fadual (MFA), Maimah Abdalla Osman Ahmed (MFA), Abdalla Nasseh Alawad (Red Sea Fisheries Research Institute), Salah Eldeen Yaqub (Red Sea University), Erik Olsen (IMR), Christian Susan (UNIDO)

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Said J. Fadual
(Manager MFA Pt Sudan)


Erik Olsen
(Scientific Cruise Leader IMR)


Christian Susan
(Project Manager UNIDO)

Annex 2) Agresso Expenditure Report