

**ANNUAL PROJECT MEETING  
SPATE IRRIGATION FOR RURAL ECONOMIC GROWTH  
AND POVERTY ALLEVIATION  
FOR YEAR 2012**

**ANNUAL MEETING  
REPORT**

**PREPARED BY :**

**DR. SHARAFADDIN A. A. SALEH**

**JUNE 2013**

# ANNUAL PROJECT MEETING SPATE IRRIGATION FOR RURAL ECONOMIC GROWTH AND POVERTY ALLEVIATION For year 2012

Dear Dr. Abraham project Director

Due to your request to made project annual meeting here in Yemen, this meeting was held in WEC Sana'a University in the period from 15<sup>th</sup> to 19<sup>th</sup> of June 2013. Attend this meeting the project supervisor (Prof. Yasir) from Sudan, project team leader (Allahbakhish) and spate and groundwater researcher Matlob from Pakistan, project general supervisor Dr. Frank for Metameta Netherlands, project team leader (Dr. Sharafaddin) and supervisor (prof. Babaqi) from Yemen, in addition to two Msc researcher and three Diploma researcher from Yemen. However, team leader from Ethiopia cannot attend this meeting due to some problem in travel airline. In this meeting four spate piratical notices, and one book in traditional spate irrigation in wadi dowan- wadi Hadramout were prepared and distributed for the participants and two spate posters were prepared. The annual meeting was done as mentioned in annual meeting program (Annex A) and summaries as flow:

**Frist day (Saturday 15/6/2013):** The activities of this day were the annual meeting opening, country project activities for 2012, and plan for 2013, Cross-cutting topics and follow-up project proposals, Spate Irrigation Website - link to country chapters, and communication strategies and Priorities for 2013-2014 (Focus on farmers/WUAs, Exchange between countries, Building new cadre and move to all flood based farming systems)



Photos from annual meeting first days

**Second day (Sunday 2013):** One day workshop in spate partnership workshop for discussion on policy (input into strategic and plan) was held in WEC, participated in this

workshop about (32) participants from different related departments including some members from the parliament (attendance sheet is in annexB1). In this workshop several activities were done as mentioned in the workshop program (Annex B2). The activities which were done in this workshop include Country experiences in spate irrigation, researches in spate areas in Wadi Zabid and wadi hadramout -Yemen, Diagnostic report for Irrigation Strategic Plan – ideas and first discussion, and Presentation and plenary discussion. In addition to group discussion, this group discussion was concluded with several recommendations (as mentioned in annex B3).



Photos from Spate partnership work shop

**Third day (Monday 17/6/2013):** Travel to Al-Hodiadah through Al-Mahweet(from 7:00 AM to 19:00). In the way to Al-Hodiadah the annual meeting participants visit wadi Mawr spate structures, meet some farmers and WUA’s members in wadi Mawr, and O&M staff for the spate structures from TDA- north branch and discussed with them operation and maintenance of this structures and the water distribution in this wadi .



Photos from Wadi Mawr Main structure visit



Photos from Wadi Mawr Main structure visit

**Fourth day (Tuesday 18/6/2013):** all annual meeting participants with Msc researchers attend four hour workshop in TDA as mentioned in the workshop program (annex C1). This workshop start at 9:30 with presence of TDA chairman Dr. Abdoalsalam Altayeb. In this workshop several presentations are presented (Research Presentation DG Khan Pakistan, Research Presentation Kasala Sudan , WUA’s Evaluation and strengthening – Wadi Zabid, Groundwater Recharge wadi Zabid, and WUA’s activities in Tihama) this presentation followed by discussion . After that, the identification of best strategies to achieve remaining project deliverables, and country specific follow-up project proposals is discussed. Attend this workshop about 29 participants from TDA staffs, and some members of WUA’s from Wadi Zabid, Wadi Siham, and Wadi mawr (attendance sheet in Annex C2). A group discussion questions was distributed and discussed in this meeting and several recommendation is derived from this workshop (as mentioned in annexC3).



Photos from Al-Hodiadah 4hr. workshop

At the afternoon of this day the annual meeting participants visited wadi Siham diversion structures in Al-Brgogah and Waqer sites. In addition they visited the improved structures (the free intake ) which was made from gabion and reinforce concrete.



Photos from Wadi Siham field Visit

**Fifth day (Wednesday 19/6/2013):** the annual meeting participants visited wadi Zabid in the morning. They visited the middle and upper reaches of the wadi and see the crop pattern of these reaches, then they visited the diversion Structures no. 2 &1 in this wadi with operation and maintenance Eng. from TDA south - branch. The O&M Eng. discuss to them the operation and maintenance of the diversion structures and main canal, and the flood water distribution through these structures and in all wadi reaches and structures.



Photos from Wadi Zabid Visit

After the visit of the wadi Zabid structures and reaches (at about 12:00) the annual meeting participants start the travel back to Sana's through Alodain road, so they pass through Ibb city, Yarim city, and Damar city. The travel back take about 6hr (from 12:00 t0 18:00)



Photo from the way of the travel back to Sana'a

On Thursday 20/6/2013 all participants from Pakistan and Sudan travelled back to their home countries.

These are all activities done in the annual meeting of 2012, which was held in Yemen

**Project Team Leader**

**Dr. Sharafaddin A. A. Saleh**

**Project Supervisor**

**Prof. Abdullah S. Babaqi**

**Annex A**  
**ANNUAL PROJECT MEETING**  
**SPATE IRRIGATION FOR RURAL ECONOMIC GROWTH AND**  
**POVERTY ALLEVIATION**  
**PROGRAM: 15 to 19 June, 2013**

<b>Day/Date</b>	<b>Time</b>	<b>Activity</b>	<b>Presenter/moderator</b>
13 and 14 June (Thursday & Friday)		Project staff arrive at Sana'a - Yemen	
<b>15 June (Saturday) Sana'a Program</b>			
	9:00 - 9:15	Welcome remarks and introduction to the program	Dr. Sharafaddin
	9:15 to 9:30	Brief remarks by country project leaders	Ethiopia, Pakistan, Sudan
	9:30 to 9:45	Opening remarks	Prof. Babaqi and Frank
	9:45 to 10:30	Overall project activities and Country specific activities in 2012 and plans for 2013	Frank/ project team leaders (Pakistan, Ethiopia, Sudan, Yemen)
	10:30 to 10:45	Coffee break	
	10:45 to 12:00	Cross-cutting topics and follow-up project proposals	Frank van Steenberg (moderator)
	12:00 to 13:00	Spate Irrigation Website - link to country chapters, and communication strategies	Dr. Abraham
	13:00 to 13:30	Discussion	
	13:30 to 14:30	Lunch break	
	14:30 to 15:30	Priorities for 2013-2014 <ul style="list-style-type: none"> <li>- Focus on farmers/WUAs</li> <li>- Exchange between countries</li> <li>- Building new cadre</li> <li>- Move to all flood based farming systems</li> </ul>	Yasir/ Frank
	15:30 to 16:00	Discussion	
	16:00 to 16:30	Summary of main issues discussed and wrap up	Frank
<b>16 June (Sunday) Spate Partnership Workshop: Discussion on Policy (input into Strategic Plan)</b>			
	9:00 to 9:15	Welcome and introduction to the day program – introduction SpN	Prof. Babaqi/Frank
	9:15 to 9:30	Opening remarks	High representatives
	9:30 – 10:30	Country experiences in spate irrigation <ul style="list-style-type: none"> <li>- Pakistan</li> <li>- Sudan</li> <li>- Ethiopia</li> <li>- Yemen</li> </ul>	Allah Bakhsh/ Metloob Yassir Tesfa Alem Sharafuddin Saleh
	10:30-10:45	Questions and discussion	
	10:45 – 11.15	Coffee break	

	11:15 – 11:45	Research presentations - Wadi Zabid - Wadi Doan	Fahad Alawui/ Abdulla
	11:45 – 12:15	Diagnostic report for Irrigation Strategic Plan – ideas and first discussion	Intro by Mohammed Al Suneidar/ Frank Discussion
	12:15 – 12:45	Prayers	
	12:45 – 14:15	Group discussion	
	14:00-14:45	Lunch	Frank / Yasir
	14:45 – 15:45	Presentation and plenary discussion	
	15:45-16:30	Synthesis and conclusion (Member of Parliament)	
<b>18 June (Tuesday) Project team meeting</b>			
	8:30 to 9:30	Research Presentation DG Khan Pakistan Research Presentation Kasala Sudan	Matlob Yassir
	9:30 to 10:15	Research Presentation Groundwater Zabid	Adel Fahad
<b>19 June (Wednesday) Field visit</b>			
	7:30 to 9:00	Travel from Al- Hodeidah to zabid	
	9:00 to 11:00	Visit spate structures in WadiZabid	Dr. Sharafaddin (guide)
	11:00 to 13:00	Travel to Taiz city	Dr. Sharafaddin (guide)
	13:00 -15:00	Lunch + journey around Taiz city	Dr. Sharafaddin (guide)
	15:00 - 20:00	Travel back to Sana'a through Ilb and Damar cities	Dr. Sharafaddin (guide)
20 and 21 June (Thursday & Friday)	Various	Departure of project staff - transport arrangement to airport	Dr. Sharafaddin



# Annex B1

## Attendance sheet

### Spate Partnership Workshop – Sana’a (to discuss policies plan)

No.	Name	Occupation	Department	Telephone	Email
1	Dr. Mohamed Hizam Almashraqi	G.M of national resources centre	G.Agr. research Authority	772090264	<a href="mailto:Mashreki2000@yahoo.com">Mashreki2000@yahoo.com</a>
2	Abo-Alkareem Alsabri	Irrigation and water resources consultant	MAI	777253559	<a href="mailto:akalsabri@yahoo.com">akalsabri@yahoo.com</a>
3	Ahmed Mohamed Nasir	G.M of Irrigation structures	MAI	777455039	<a href="mailto:Zamki1873@yahoo.com">Zamki1873@yahoo.com</a>
4	Allahbakhask Bolj	Pakistan	Spate project TL	+0301-6386398	<a href="mailto:spateirrigation@spopk.org">spateirrigation@spopk.org</a>
5	Matlob Ahmed Bloj	Pakistan	Spate project researcher	+0345-7138739	<a href="mailto:machangwani@hotmail.com">machangwani@hotmail.com</a>
6	Prof. Yasir Abas	Sudan	Spate project Super.		<a href="mailto:y.mohamed@unesco-ihe.org">y.mohamed@unesco-ihe.org</a>
7	Jamail Abdullah Nasser	MWE	Greatest water senior	777704157	<a href="mailto:Jmael555nasser@gmail.com">Jmael555nasser@gmail.com</a>
8	Mohmad yahai Alsonaidar	Irrigation consultant	MetaMeta	733761119	<a href="mailto:Mohamed.g@hotmail.com">Mohamed.g@hotmail.com</a>
9	Saleh Mohamed Ali Bohlol	Chairman Diplomatic Dep. of WUA council union	Union of Water Users Council	734116536	
10	Mohsin Alkialah Awad	G. Mayor of WUA council union	Union of Water Users Council	777135244	
11	Amar Hasin Rasam	Chairman of WUA council union	Union of Water Users Council	771115111	<a href="mailto:Ye_water@hotmail.com">Ye_water@hotmail.com</a>
12	Adel Mohammed Zolil	Researcher	WEC	777229818	<a href="mailto:Zolil2005@yahoo.com">Zolil2005@yahoo.com</a>
14	Fahed Mohsin Almagrabi	Researcher	WEC	777094912	<a href="mailto:Almagrabi09@yahoo.com">Almagrabi09@yahoo.com</a>
15	Matthye Kool	Researcher	MetaMeta	+31(01)630106132	<a href="mailto:mkool@metameta.nl">mkool@metameta.nl</a>
16	Mohamed Ezze Wasil	Chairman of WUA council Wadi Zabid	WUA,s council wadi Zabid	777340148 736221882	
17	Helmi Ali Aljarmozi	Secretary of water Environmental committee	Members of Parliament	777798312	<a href="mailto:Helmi7744@yahoo.com">Helmi7744@yahoo.com</a>
18	Taha Mohamed Akhawi	G. Manger of water Environmental committee	Members of Parliament	771640646	<a href="mailto:Taha.Alkhawi@gmail.com">Taha.Alkhawi@gmail.com</a>
19	Hussein Kaid Zaid	G. Manger of Agri. And irrigation committee	Members of Parliament	777782490	<a href="mailto:husseinkiadzaida@gmail.com">husseinkiadzaida@gmail.com</a>
20	Wahib sief Mohsin	Eng. researcher	WEC	777782490	<a href="mailto:wahibabc@yahoo.com">wahibabc@yahoo.com</a>
21	Frank Vansteenbergen	Manager of metameta	Spate network	+317315238206	<a href="mailto:fvansteenbergen@metameta.nl">fvansteenbergen@metameta.nl</a>
22	Alawi Mohsin Abdomogni	Researcher	WEC		
23	Dr. Omar Asaed Hasim	Chairman of forest department	MAI	736299243	<a href="mailto:Ogazem@yahoo.com">Ogazem@yahoo.com</a>
24	Ahmed Abdoalmalik Aljalal	Researcher in Natural resources	Centre of natural resources	771015360	<a href="mailto:Algalal_82@yahoo.com">Algalal_82@yahoo.com</a>
25	Bassam Abdullah Hasim	Graduated student	Agri. Faculty	777482226	<a href="mailto:Bassam777222@hotmail.com">Bassam777222@hotmail.com</a>
26	Dr. sharafaddin A.A. saleh	Coordinator of YSpN	WEC – YspN	777665575	<a href="mailto:Sharaf1960s@gmail.com">Sharaf1960s@gmail.com</a>
27	Abdullah Abdolmalik	Researcher & Secartery	WEC	777 595 480	<a href="mailto:abdulla_iwrm@yahoo.com">abdulla_iwrm@yahoo.com</a>
28	Ismail Abdowaohab	Secretary	WEC	771235000	<a href="mailto:Ismail77500@yahoo.com">Ismail77500@yahoo.com</a>
29	Prof. Abdullah Saleh Babqi	Director of WEC	WEC	733216233	<a href="mailto:asbabaqi@y.net.y">asbabaqi@y.net.y</a>
30	Dr. Adel alwashali	Vice director of WEC	WEC	737616219	<a href="mailto:drweshali@yahoo.com">drweshali@yahoo.com</a>
31	Dr. Tarek Al-Hibshi	Rs/GIS unit	WEC	777185781	<a href="mailto:Hibshi@yahoo.com">Hibshi@yahoo.com</a>
32	Dr. Bilkis Zabara	Director of Gender Centre	Gender Centre	711800821	<a href="mailto:bzabara@gmail.com">bzabara@gmail.com</a>

## Annex B2

### Spate Partnership Workshop Program Discussion on Policy (Input into Strategic and plan) 16 June 2013

Day/Date	Time	Activity	Presenter / moderator
<b>Sunday 6 June 2013</b>	9:00 to 9:15	Welcome and introduction to the day program – introduction SpN	Prof. Babaqi/Sharaf
	9.15 to 9:30	Opening remarks	High representatives
	9:30 – 10:30	Country experiences in spate irrigation - Pakistan - Sudan - Yemen	Allah Bakhsh/ Metloob Yassir Sharafuddin Saleh
	10:30-10:45	Questions and discussion	
	10:45 – 11.15	Coffee break	
	11:15 – 11:45	Research presentations - Wadi Zabid - Wadi Doan	Fahad Alawui/ Abdulla
	11:45 – 12:15	Diagnostic report for Irrigation Strategic Plan – ideas and first discussion	Intro by Mohammed Al Suneidar/ Frank Discussion
	12:15 – 12:45	Prayers	
	12:45 – 14:15	Group discussion	Yasir
	14:00-14:45	Lunch	
	14:45 – 15:45	Presentation and plenary discussion	Taha
	15:45-16:30	Synthesis and conclusion (Member of Parliament)	Taha/Frank

## Annex B3

### Spate Partnership Workshop

#### Discussion on Policy (Input into Strategic and plan)

#### Recommendations

المجموعة الاولى : (حضر فيها بعض أعضاء البرلمان)

Group one recommendations: (some parliament members is attended)

(ماهي الخمس فعاليات ذات الاولوية في تطوير الانتاجية في مناطق الري بمياه السيول؟)

What are the five priority actions to improve the productivity of the Spate irrigated areas in Yemen?

- (1) اولاً الاهتمام بالدراسات والبحوث للمشاريع ذات الانتاجية
  - (2) الادارة الجيدة للمشاريع
  - (3) تشييد الحواجز والسدود والكرفانات والصيانة الدورية وإعادة تأهيل قنوات الري، والصيانة الدورية للجدران الساندة للحفاظ على التربة
  - (4) الاهتمام بالوعي ومحو الامية لجمعيات مستخدمي المياه ورفع كفاءتهم من خلال التدريب النوعي المتخصص
  - (5) إشراك المجتمعات المحلية في إدارة وتنفيذ المشاريع وإعطاء دوراً فاعلاً للمراة الريفية.
  - (6) تسوية الارض الزراعية بحيث يغطي الماء كل المساحات الزراعية
  - (7) إنشاء مصارف جيدة لتصريف المياه الزائدة عن حاجة الارض
  - (8) إختيار محاصيل زراعية ذات إحتياجات مائية قليلة وإنتاجية عالية
- First give attentions in studies and research for productive projects
- Good management for projects
- Constructing dams and bunds and rehabilitation and annually maintenance for Irrigation canals and annually maintenance for soil retaining wall
- Give attention for awareness and education for the WUA's members to elevate their efficiency by specialist good training.
- Sharing the local communities in projects management, and giving the rural woman activated action
- Leveling the cultivated land so the irrigation water covers all cultivated areas
- Constructing goo drainage for excess irrigation water
- Choosing cultivated crops which are less water consumers and more productivity

توصيات المجموعة الثانية:

#### Group two recommendations:

What are the five priority actions to improve the environmental issues in the spate irrigated area – in particular (a) better ground water recharge (b) controlling mesquite and clearing of canal (c) controlling sand dune development and (d) controlling salinity ingress (e) controlling high sedimentation?

ماهي الخمس الفعاليات ذات الاولوية لتحسين القضايا البيئية في مناطق الري بمياه السيول في – اليمن خصوصاً في :

- (1) الطرق المثلى لتغذية المياه الجوفية
  - (2) التحكم بشجرة المسكيت وتنظيف القنوات
  - (3) التحكم في تجمع الكثبان الرملية
  - (4) التحكم في الملوحة وتداخل مياه البحر
  - (5) التحكم في الترسبات
- (1) الطرق المثلى لتغذية المياه الجوفية:
- Better ground water recharge**
- a. اختيار مواقع حواجز ومنشآت التغذية بناءً على دراسات دقيقة ميدانية وعلمية
- Choosing dams and recharge structures by accurate practical and field studies**
- b. إختيار تقنيات التغذية الملائمة لظروف البيئة اليمنية
- Choosing suitable recharge technics for Yemen environment**
- c. منع الحفر العشوائي والتوجيه لزراعة المحاصيل غير الشرهه للمياه
- Preventing illegal wells drilling and directed to plant the low water consumer crops**
- (2) التحكم بشجرة المسكيت وتنظيف القنوات:
- Controlling mesquite and clearing of canal**
- a. تبني مشروع قائم بذاته للتخلص من هذه الشجرة

## Introducing project for clearing this tree

b. عمل دراسات بحثية تطبيقية حول طرق التخلص من هذه الشجرة

## Making action research studies about methods of clearing mesquite trees

(3) التحكم في تجمع الكثبان الرملية:

## Controlling sand dune development

a. زراعة او إقامة مصدات الرياح حول الاراضي الزراعية في المناطق المعرض للكثبان الرملية

## Planting and constructing wind resistance around cultivated lands in sand dune development areas

(4) التحكم في الملوحة وتداخل مياه البحر:

## Controlling salinity ingress

a. حفر آبار مراقبة لتحديد ملوحة المياه في المناطق التي يحتمل فيها التداخل لكي يتم التحكم في ملوحتها

## Drilling monitoring wells to monitor the salinity in the areas expected to have salinity ingress (sea water intrusion) in order to control the salinity

b. تقليل معدل الضخ والاتجاه الى الضخ الآمن المبني على الحسابات الهيدرولوجية الدقيقة

## Reducing pumping and directed to safe pumping dependence on accurate hydrological calculations

(5) التحكم في الترسيبات العالية:

## Controlling high sedimentation

a. عمل حواجز تهدينة للتقليل من سرعة المياه وبالتالي التقليل من كمية الرسوبيات المحمولة في المياه

## Contracting check and settling dams to reduce the water flow velocity which reduce sedimentation loads in flow water

b. صيانة المدرجات الزراعية في مصبات الوديان

## Rehabilitation the cultivated traces in wadi catchments

c. التشجير لمناطق مصبات الوديان

## Planning wadi catchments with soil stabilizing trees

d. تشجيع المواطنين على الاستفادة من مواد الرسوبيات في قيعان الوديان كامواد بناء

## Encouraging the stockholders to uses the wadi bed sedimentation as building materials

توصيات المجموعة الثالثة:

### Group two recommendations:

What are priority actions to have a stronger organization of government and water users in the spate irrigated areas that can deal with higher production, irrigation system maintenance, fair water rights and avoiding environmental problems?

ماهي الخمس فعاليات ذات الأولوية لإيجاد منظمات حكومية قوية وجمعيات مستخدمي المياه في مناطق الري بمياه السيول في اليمن التي تستطيع أن تعطي انتاج عالي، وصيانة مثلى لمنظومة الري، وتطبق توزيع مياه عادل، وتتجنب المشاكل البيئية

### Recommendations:

(1) الربط والتنسيق بين جمعيات مستخدمي المياه والجانب الحكومي والقطاع الخاص

## Cooperation and communication between WUA's and government and private sectors

(2) إنشاء قاعدة بيانات لجميع إدارات موارد المياه السطحية

## Establishing data base for all surface water resources departments

(3) الاهتمام بتنفيذ برامج ودورات توعية للمجتمع المحلي فيما يتعلق بحقوق وقوانين المياه والتشريعات التي تحمي صغار الملاك والفقراء

## Give more intention in making awareness programs and training for local communities in water laws and roles which protect poor and small land holders.

(4) إعادة تأهيل المنشآت المائية القائمة لأغراض تغذية المياه الجوفية والاستفادة منها في ري المحاصيل الزراعية

## Rehabilitation existing water structures to recharge ground water in order to use it for cultivated crops irrigation

(5) إدخال وسائل ونظم الري الحديث وتطوير دور جمعيات مستخدمي المياه في الجوانب التسويقية للمحاصيل الزراعية

## Inserting modern irrigation systems in this areas and the development of WUA's in marketing cultivated crops

# **Sparte Partnership Workshop Program**

## **Discussion on Policy (Input into Strategic Plan)**

### **16 June 2013**

#### **نقاش المجموعات Working Group Discussion**

#### **Group (1)**

**What are the five priority actions to improve the productivity of the Spate irrigated areas in Yemen?**

ماهي الخمس الفعاليات ذات الاولوية في تطوير الانتاجية في مناطق الري بمياه السيول فياليمن؟

#### **Group (2)**

**What are the five priority actions to improve the environmental issues in the spate irrigated area – in particular (a) better ground water recharge (b) controlling mesquite and clearing of canal (c) controlling sand dune development and (d) controlling salinity ingress (e) controlling high sedimentation?**

ماهي الخمس الفعاليات ذات الاولوية لتحسين القضايا البيئية في مناطق الري بمياه السيول في – اليمن خصوصا في :

- (6) الطرق المثلى لتغذية المياه الجوفية
- (7) التحكم بشجرة المسكيت وتنظيف القنوات
- (8) التحكم في تجمع الكثبان الرملية
- (9) التحكم في الملوحة وتداخل مياه البحر
- (10) التحكم فيالترسبات

#### **Group (3)**

**What are priority actions to have a stronger organization of government and water users in the spate irrigated areas that can deal with higher production, irrigation system maintenance, fair water rights and avoiding environmental problems?**

ماهي الخمس فعاليات ذات الأولوية لإيجاد منظمات حكومية قوية وجمعيات مستخدمي المياه في مناطق الري بمياه السيول في اليمن التي تستطيع أن تعطي انتاج عالي، وصيانة مثلى لمنظومة الري، وتطبق توزيع مياه عادل، وتتجنب المشاكل البيئية

## Annex C1

### ANNUAL PROJECT MEETING SPATE IRRIGATION FOR RURAL ECONOMIC GROWTH AND POVERTY ALLEVIATION

**Spate Partnership Workshop – Al-hodiadah (to discuss policies plan)  
18 June, 2013**

<b>Day/Date</b>	<b>Time</b>	<b>Activity</b>	<b>Presenter/ moderator</b>
<b>Tuesday 18 June 2013</b>	9:00 – 9:30	Registration	Isamial
	9:30 to 9:50	Opening	Chairman of TDA / Sharaf
	9:50 to 10:10	Research Presentation DG Khan Pakistan	Matlob
	10:10 to 10:30	Research Presentation Kasala Sudan	Yassir
	10:30 to 10:40	WUA’s Evaluation and strengthening	Fahad
	10:40 to 11:00	Groundwater Recharge wadi Zabid	Adel
	11:00 to 11:20	WUA’s activities in Tihama	Jafer
	11:20 to 12:00	Discussion	Dr. abdoalsalam/ Jafer
	12:00 to 12:30	Coffee break	
	12:30to 13:00	Identify best strategies to achieve remaining project deliverables	Abraham/ Yassir/ Sharaf (moderator)
	13:00 to 13:30	Country specific follow-up project proposals	Country project team
	13:30to 14:30	Lunch	
14:30 to 17:30	Field visit to WadiSiham improved traditional & modern irrigation systems	Dr. Sharafaddin (guide)	

## Annex C2

### Attendance sheet

Spate Partnership Workshop – Al-hodiadah (to discuss policies plan)

No.	Name	Occupation	Department	Telephone	Email
1	Mohamed Salim Arji	WUA chairman	Wadi Siham	770335109	
2	Haider thuom Ba-Saed	WUA G. Mayor	Wadi Siham	770492719	
3	Jafer Hasan Alwi Aljaffri	Agri. G. manager	TDA	777235540	<a href="mailto:jaljeffri@gmail.com">jaljeffri@gmail.com</a>
4	Sami Ahmed mohamed	Geologic Eng.	TDA	771223980	<a href="mailto:Samizacem.dxn@gmail.com">Samizacem.dxn@gmail.com</a>
5	Ibrahim Ahmed Al-Hakami	Hydrologic Eng.	TDA/NIP	770434877	<a href="mailto:Hakammi0439@gmail.com">Hakammi0439@gmail.com</a>
6	Ahmed Silliman Lashi	WUA chairman	Wadi Zabid	777236020	
7	Faisal Ahmed Ali	Water guides Eng.	NIP	777226773	
8	Abdowali Khalid Sief	Manager of Water department	TDA	733399959	<a href="mailto:aawkhaled@gmail.com">aawkhaled@gmail.com</a>
9	Fawaz Alothari	Manager of O&M department	TDA	777004777	<a href="mailto:eng-fawaz-a@yahoo.com">eng-fawaz-a@yahoo.com</a>
10	Hisam Mohamed Omar	Water Eng.	TDA	771819163	
11	Saeed Abdowahid Alasbahi	Announcements Dep.	TDA	77207493	
12	Abdoalmogni Mansor Hijab	Manager of wadi Siham project	TDA	777416514	
13	Aboalbasid Hasan Al-Shmiri	Manager of TDA south B	TDA	733611999	
14	Dr. Sakkaf Abdorahman Alsakkaf	G. manager of TDA	TDA	733230163	<a href="mailto:sakkafsakkaf@yahoo.com">sakkafsakkaf@yahoo.com</a>
15	Mohamed Fotini Omar	Evaluation and monitoring Dep.	TDA	777109361	<a href="mailto:Jammal2008@hotmail.com">Jammal2008@hotmail.com</a>
16	Abdoh Hadi Mansaki	WUA G. Mayor	Wadi Mawr	777882501	
17	Arman Hadi Mansaki	WUA chairman	Wadi Mawr	714256593	
18	Badawi Hadi Hasan	WUA chairman	Wadi Mawr	715134729	
19	Dr. sharafaddin A. A.Saleh	Spate project TL	WEC	777665575	<a href="mailto:Sharaf1960s@gmail.com">Sharaf1960s@gmail.com</a>
20	Dr. Abdosalam Ibrahim Teeb	Chairman of TDA	TDA	777421629	<a href="mailto:abstaveb@yahoo.com">abstaveb@yahoo.com</a>
21	Ahmed Hadi Mansaki	WUA chairman	Wadi Mawr	711010871	<a href="mailto:Manskcki90@tvittv.com">Manskcki90@tvittv.com</a>
22	Prof. Yasir Abas	Spate project Super.	Sudan		<a href="mailto:y.mohamed@unesco-ihe.org">y.mohamed@unesco-ihe.org</a>
23	Allahbakhask Bolj	Spate project TL	Pakistan		<a href="mailto:spateirrigation@spopk.org">spateirrigation@spopk.org</a>
24	Matlob Ahmed Bloj	Spate project researcher	Pakistan		<a href="mailto:machangwani@hotmail.com">machangwani@hotmail.com</a>
25	Adel Mohammed Zolil	Researcher	WEC	777229818	<a href="mailto:Zolil2005@yahoo.com">Zolil2005@yahoo.com</a>
26	Fahed Mohsin Almagrabi	Researcher	WEC	777094912	<a href="mailto:Almagrbi09@yahoo.com">Almagrbi09@yahoo.com</a>
27	Ismail Abdowaohab	Secretary	WEC	771235000	<a href="mailto:Ismail77500@yahoo.com">Ismail77500@yahoo.com</a>
28	Nadiah Mohamed Ahmed	Rular Woman Dep.	TDA		
29	Jawad Hasim mohamed	Management Dep	. TDA		

## Annex C3

### Spate annual meeting Al-Hodiedah meeting

#### Discussion on the WUA's in Tihama Wadis (Responsibility, evaluation and Sustainability)

18 June 2013

#### Recommendations:

##### Group one:

What are the priority actions to active the responsibility of the WUA's in the spate irrigated areas in Tihama wadis? in particular (a) In O&M of irrigation systems (b) in activated methods of groundwater recharge (c) controlling mesquite and clearing of the canals (d) in activated the method of controlling high sedimentation? ماهي الفعاليات ذات الأولوية في لتفعيل مسؤوليات جمعيات مستخدمي المياه في مناطق الري بمياه السيول في وديان تهامة؟ خصوصا في :

(11) في صيانة وتشغيل منظومات الري بمياه السيول

(12) في تفعيل طرق تغذية المياه الجوفية

(13) التحكم بشجرة المسكيت وتنظيف القنوات

##### Group one recommendations: توصيات المجموعة الاولى

(a) توصيل دور الجمعيات والتنسيق العام مع الهينه

Transport the water users communities activities and the general cooperation with TDA

(b) إنشاء كرفانات لتغذية المياه الجوفية

Constructing soil bunds and digging bunds through the wadi course channel to recharge the groundwater.

(c) إزالة الأشجار بالاليات وبعد ذلك يتم احراقها ، ثم الاستمرار في مكافحتها موسميا بواسطة العمال

Remove the mesquite trees mechanically and burn it, then continue the mesquite trees annually cleaning by labors.

(d) تدريب الجمعيات والزامهم بتحقيق هذا الهدف بموجب الالتزامات والرقابة

Trained the water user communities for the O&M of Spate irrigation systems and reinforce them to reaches the target by supervising and monitoring.

(e) تدريب الجمعيات على طريقة إستخدام الكميات المناسبة من المياه في الري وتوعيتهم

Trained and awareness the water user communities to use the appreciated quantities of water for irrigation by expectable methods of irrigation.

(f) تدريب على طرق إزالة شجرة المسكيت اولا باول عندماتكون صغيرة

Trained the water user community's members to remove the small mesquite trees annually and in all time they see it.

(g) عدم الاستعانة بالمسؤولين، وتسليم دور الدولة لهم لصالح عضو الجمعية فقط

Do not ask the help support of government staff, and give the responsibilities of government staff to water user community's staff.

(h) دعم مالي يكون في ايدي امينة لاجراج هذه الشجرة الخبيثة وإجثائها

Financial support and should be controlled by honest members for removing the mesquite trees.

(i) إيجاد حلول لتغذية المياه الجوفية مثل إنشاء السدود والحواجز التحويلية

Defined solutions for ground recharge as constructing diversion dams and bunds.

(j) العمل على رفع نسبة الوعي لخلق تعاون أكبر عبر إشتراكات لتقوية القدرة المالية لدى الجعيات كإقدرة مالية ثابتة

Working on elevated the awareness to initiate greater cooperation and support through participating to strengthening the financial ability of water user communities as permanent financial ability.

(k) دعم المنشآت المائية الحديثة وتقليص مصاريف الصيانة

Supporting the modern water constructions to minimize the maintenance cost

(l) الحد من الحفر العشوائي والحد من زراعة المحاصيل المستهلكة للمياه والحد من التحكم الغير لائق بإنشاء الحواجز المانية بالمرتفعات



Limited of uncontrolled digging wells and high water consumers crops and limited the storage dams construction in the upper catchments

(m) المشاركة في عمل الخطط والبرامج وغيرها

Community's participations in making plans and programs

(n) توعية وتدريب الجمعيات وتحديد مناطق التغذية بلاستعانة بجهات الاختصاص

Awareness and training for WUA's members, and selecting recharge areas with specialist departments helps

(o) يجب ان تكون الصيانة بمشاركة ومسؤولية الجميع ، ويجب ان يكون التشغيل والتوزيع في ايدي أمانة تعمل على عدالة التوزيع للمياه

The maintenance has to be the responsibility of all participants, and putting the distribution and system's operation in honest hand who do the work with the just water distribution.

(p) لزيادة تغذية المياه الجوفية يجب الدعم والتشجيع والتوعية لادخال أنظمة الري الحديثة

For increasing groundwater recharge you have to encourages, support and the awareness to insert the modern irrigation systems in spate areas to save ground water.

(q) توفير دعم لجهة مختصة أمانة لتنفيذ برنامج لازالة شجرة الماسكيت

Defined and support for honest specialist department to construct a program to remove mesquite trees

## Group two

What is priority actions for the sustainability of WUA's in the spate irrigation areas – in Tihama wadis?

ماهي الفعاليات ذات الأولوية للإستدامة جمعيات مستخدمي المياه في مناطق الري بمياه السيول في اوديةان تهامة

### Group two recommendations:

(a) ربط هذه الجمعيات بالهئية العامة لتطوير تهامة

Connecting of WUA's with TDA

(b) المشاركة في الصيانة وجمع الاشتراكات

Participation in maintenance and collected sharing expenses

(c) المتابعة المستمرة لهم عبر جهة الاختصاص وتفعيل الرقابة عليهم والتواصل المستمر معهم

Continuous following for WUA's through specialist with activated the monitoring and communication with them

(d) الدعم المادي والفني من قبل هيئته تطوير تهامة

Financial and technical support for WUA's from TDA

(e) إنشاء جمعيات بمهارات فاعلة للحفاظ على إستدامة الجمعيات

Establishing the WUA's with effected scales for the sustainability of this WUA's

(f) قوة شخصية الجمعية في تحقيق اهدافها والتزام والانضباط لدى اعضائها للقيام بالمهام الاساسية والرئيسية

Strengthening the WUA's to reach their objectives, and restrict its members to do their major and basic activities.

(g) تقوية وتعزيز دور الجمعيات وبناء قدراتها في مختلف الجوانب / وقيام الدولة بدورها للحد من التجاوزات والضبط الاداري للمخالفين

Strengthening and supporting the part of WUA's and establishing its ability indifferent sides and the government should do their duties to limit illegal work

(h) تفعيل دور الارشاد الزراعي وحل كافة المشكلات ذات الصلة بعمل المزارعين في مختلف المحاصيل

Activated the cultivated guides and solving all problems which is related to the farmers work in different crops

(i) التوعية والتدريب والدعم والمتابعة والتقييم وتحسين إستخدام مياه الري

Awareness, training, supporting, monitoring, and evaluation, and improving the uses of irrigation water

(j) إيجاد قوانين وتشريعات عادلة ونافذه بقوة الدولة

Establishing the just laws, and roles, which are applicable with government forces?

## Group three

What are priority actions to have a stronger organization of government and water users in the spate irrigated areas that can deal with higher production, irrigation system maintenance, fair water rights and avoiding environmental problems?

ماهي الخمس فعاليات ذات الأولوية لإيجاد منظمات حكومية قوية وجمعيات مستخدمي المياه في مناطق الري بمياه السيول في اليمن التي تستطيع أن تعطي انتاج عالي، وصيانة مثلى لمنظومة الري، وتطبق توزيع مياه عادل، وتتجنب المشاكل البيئية

### Group three recommendations:

1. جعل أعضاء الجمعيات مزارعين بسطاء
  2. إنشاء صندوق الصيانة لكل قناة والتوريد التام لرسوم الصيانة تحت إشراف رقابي، ونصرف بعد ذلك لأعمال الصيانة
  3. إيجاد جمعيات تعمل كرديف للجهات الرسمية وتشارك مشاركة فعالة في عمليات حل النزاعات والتوزيع العادل والصيانة الدورية
  4. إيجاد أنظمة وقوانين ملزمة وقابلة للتنفيذ تنظم عمليات التوزيع العادل للمياه
  5. الإلزام والتوعية للاستخدام الامثل للمياه
  6. بناء الثقة بين الجمعيات وبين الجهات ذات العلاقة والتواصل المستمر مع الجمعيات
  7. الالتزام بكل النشاطات الموكلة اليها
  8. توعية المزارعين لاستدامة المشاريع
  9. تقوية القدرة الادارية والمالية و التعريف بأهمية الجمعيات وادوارها ووظائفها الاساسية
  10. التدريب المستمر لاجزاء الجمعيات وتعريفهم بالمهام الاساسية لجمعيات مستخدمي المياه
  11. المشاركة المادية والمباشرة في أعمال الصيانة والتشغيل
  12. التعريف بالانظمة والقوانين ذات العلاقة بالري والاعراف المتعامل بها
  13. التعريف باهمية المنشآت وضرورة الحفاظ عليها
  14. توعية وتدريب وتأهيل الجمعيات في عمل السياسات والخطط والادارة لتحسين إدارة الري
  15. المشاركة في الصيانة مع الجهات ذات العلاقة ودعم الجمعيات بالامكانيات للقيام بأعمال الصيانة
- Sharing with related departments and support the communities with instrumentations to do their works in maintenance

**Sparte annual meeting Al-Hodiedah meeting**  
**Discussion on the WUA's in Tihama Wadis**  
**(Responsibility, evaluation and Sustainability)**  
**18 June 2013**

نقاش المجموعات Working group discussions

**Group one:**

What are the priority actions to active the responsibility of the WUA's in the spate irrigated areas in Tihama wadis? in particular (a) In O&M of irrigation systems (b) in activated methods of groundwater recharge (c) controlling mesquite and clearing of the canals (d) in activated the method of controlling high sedimentation?

- الأولوية في لتفعيل مسؤوليات جمعيات مستخدمي المياه في مناطق الري بمياه السيول في وديان تهامة؟ خصوصا في : h j ماهي الفعاليات ذات
- (14) في صيانة وتشغيل منظومات الري بمياه السيول
- (15) في تفعيل طرق تغذية المياه الجوفية
- (16) التحكم بشجرة المسكيت وتنظيف القنوات

**Group two:**

What are priority actions for the sustainability of WUA's in the spate irrigation areas – in Tihama wadis?

ماهي الفعاليات ذات الأولوية للإستدامة جمعيات مستخدمي المياه في مناطق الري بمياه السيول في اوديان تهامة

**Group three:**

What are priority actions to have a stronger organization of government and water users in the spate irrigated areas that can deal with higher production, irrigation system maintenance, fair water rights and avoiding environmental problems?

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