



Hashemite Kingdom of Jordan

Construction of Water Earth Ponds in the Jordanian Badia Project

Agreement of First Year

August 2011

Final Report

March 2014

Prepared by:

Ministry of Water and Irrigation

Jordan Valley Authority

Submitted to:

Ministry of Environment

Badia Restoration Program (BRP)

ملخص اتفاقية عام 2011

(نهائي)

معلومات عامة عن الاتفاقية

- قيمة الاتفاقية: (2507300) دولار وتعادل (1775168.4) دينار . من ضمنها (30000) دولار لجهاز الإشراف.
- توقيع الاتفاقية: أيلول 2011
- عدد المواقع: (16) موقع.
- سعتها التخزينية التعاقدية: (1.5) مليون متر مكعب.
- مجموع قيمة العطاءات التعاقدية (حسب العقد) = (905786)
- مجموع الدفعات المالية المرحلية (1001317.32) دينار.

معلومات ملخصة عن مرحلة التنفيذ

- عدد العطاءات (6) عطاءات.
- عدد الحفائر (16) حفيرة. موزعة حسب الجدول أدناه.
- سعتها التعاقدية (1.5) مليون متر مكعب.
- سعتها المنفذة حسب الواقع = (1.388) مليون متر مكعب.
- نسبة الانجاز الكلية للمشروع = (93)%.
- إجمالي المصروف الفعلي على المشروع (مطالبات المقاولين ولجان العطاءات) = (893054.43) دينار
- إجمالي المصروف الفعلي لجهاز الإشراف = (17900) دينار.
- إجمالي المصروف الفعلي على المشروع مضافا إليه أتعاب الإشراف = (910954.43) دينار.
- الوفر من قيمة الاتفاقية التعاقدية = 864213.969 دينار أردني.
- الوفر النهائي من الدفعات الممنوحة = (90362.889) دينار.
- تم استخدام الوفر من الدفعات الممنوحة وقيمته (90362.889) دينار لتنفيذ اتفاقية التمديد الممثلة بـ (الملحق الثاني لهذه الاتفاقية لسنة 2011).

رقم العطاء	اسم الحفيرة	السعة حسب العقد 3م (1000)	السعة الفعلية 3م (1000)	نسبة الانجاز %	قيمة العطاء التعاقدية دينار	قيمة العطاء الفعلية دينار
172283.896	الفيضة	50	45.156	90	169000	
	دويخلة السطیح	100	99.69	99.7		
	تلعة سلمان السفلى	100	100.8	108		
152633.2	حليحل	100	87	87	147000	
	الحفي	50	87	174		
	أرينبة	50	29	58		
144042	الهقيش	100	90	90	180600	
	البندان	100	70	70		
	أبو حفنة	100	55	55		
179709	أم محفور	100	100	100	174600	
	مرب المحدث	100	100	100		
	2الضبيعي	100	100	100		
149596.6	البقيعاوية2	100	100	100	147986	2012/1/ر
	الصبحي	150	150	100		
61535	تل الأقيرع	100	77.1	77	86600	2012/2/ر
	الجناب2	100	97.2	97		
859799.7		1500	1388	93	905786	المجموع

ملاحظة: يرجع للتقرير المفصل لتوضيح أي استفسار.

“Construction of Stock Water Ponds in the Jordanian Badia”.

Introduction

Constructing water ponds in the Badia is a fundamental element of Community Action Plan (CAP) adopted by the Ministry of Environment /Badia Restoration Program. Making water available through constructing water ponds in the Badia is of central importance to livestock owners and the rangeland. As for livestock owners, the availability of water is expected to reduce the cost of raising livestock because the livestock owners will stop driving long distance costing them a lot of money to bring water to their animals. Reducing the traffic movements, in turn, will have indirect on the rangeland areas. Furthermore, constructing water ponds in the Badia can simultaneously reduce soil degradation and erosion and contribute to natural recovery of vegetation. As a result, the Ministry of Environment /Badia Restoration Program signed an agreement in August 20, 2011 with the Ministry of Water and Irrigation/Jordan Valley Authority to construct 16 stock watering ponds with a total storage capacity of **(1.5)MCM**. The duration of the agreement is one year starting from the date of signing.

Phases of the project

After signing the agreement between the two parties (BRP and MWI), a team from the PMU, and Jordan Valley Authority (JVA) in consultation with representatives from the targeted communities conducted field visits to the targeted watersheds in the Badia in order to select the potential sites for the construction of the proposed ponds.

The MWI planned to implement the proposed 16 ponds in the targeted watersheds in two phases:

Phase One

Includes the construction of 9 ponds with 3 ponds in each of the following watersheds: Bandan; Qasab; and Arainbah. The timetable for this phase started in September 2011 and will end in May 2012. The activities of this phase will include:

Pond #	Contract No.	Pond/Dam Name	Capacity (1000m ³)	Pond coordinate		Wadi Name	Watershed Name
				North	East		
1	R/10/2011	Hlahel	100	32.2781	37.3795	Hlahel	Aranbah
2		Arainbah	50	32.2721	37.0435	Al-Luhfi	Aranbeh
3		Al-Luhfi	50	32.1903	37.1969	Al-Luhfi	Aranbah
4	R/9/2011	Abu Hefneh	100	32.2356	38.2313	Abu Hefneh	Al-Bandan
5		Al-Bandan	100	32.3492	38.1573	Abu Hefneh	Al-Bandan
6		Haqaish	100	32.4448	38.188	Hefaish	Al-Bandan
7	R/11/2011	Al-Faidah	50	32.5765	38.2481	Al-Roished	Al-Qasab
8		Tal'et Salman Al-Sufly	100	32.5165	38.6683	Tal'et Salman	Al-Qasab
9		Duekhlet Sateeh	100	32.5744	38.6267	Doikhlet Steeh	Al-Qasab

Phase One Progress and Achievements (Final)

Contract No. R/11/2011

COMPLETED - Finally Handed Over

Construction of Duekhlet Sateeh & Tal'et Salman Al-Sufly & Al-Faidah Bonds

Contractor: Al Quds Al Kubra Company

Contract Amount 169000 JD

Excavation Quantity 250000m3

Contract Duration 180 Calendar Days

Contract Commencement Date 3/1/2012

Name of Bond	Bond Capacity M3	Bond Commencement Date	Executed Quantities To Date M3	Excavation Progress	Contract Completion Date	Actual Contract Completion Date	Progress JD	Tender Committee JD	Total Payments JD
Al-Faidah	50000	3/1/2012	45156	(22/7/2012) 90%	19/8/2012	22/7/2012	170923.896	1360	172283.896
Duekhlet Sateeh	100000	9/2/2012	99690	(22/7/2012) 99.7%					
Tal'et Salman Al-Sufly	100000	20/3/2012	108000	(22/7/2012) 108%					
Staff Gauges (6x150JD) (0.005%)			Executed in free charge						
Actual Contract Progress (100%)									

- Contract Completion Date Extended (50) days by the Ministry of Public Works & Housing No 63/1/ 9661 date 9-4-2012 to become (19/8/2012).
- .The Contract substantially completed on 22/7/2012.
- Maintenance period (365) days started from 22/7/2012.
- A technical committee formed for the final handed over.
- **Finally handed over in 22/7/2013.**

Contract No. R/10/2011 COMPLETED - Finally Handed Over /Contract Terminated in accordance to Clause 12/1 "Contractor's Default"

Construction of Arainbah & Al-Luhfi & Hlaihel

Contractor: Fayez Al –Kouz Company

Contract Amount 147000 JD + 25400JD=172400JD

Excavation Quantity 240000 m3

Contract Duration 180 Calendar Days

Contract Commencement Date 28/12/2011

Name of Bond	Bond Capacity M3	Bond Commencement Date	Executed Quantities To Date M3	Excavation Progress (30/9/2012)	Actual Contract Completion Date	Progress JD	Tender Committee JD	Total Payments JD
Hlaihel	100000	28/12/2011	87000	0.87%	14/8/2012	150893.25	1740	152633.25
Al-Luhfi	50000 + 40000	18/2/2012	87000	97%				
Arainbah	50000	28/5/2012	29000	58%				
Staff Gauges (4)			Executed in free charge					
Actual Contract Progress (85%) in accordance to the actual executed quantities								

- Contract Completion Date Extended (50) days by the Ministry of Public Works & Housing No 63/1/ 9661 date 9-4-2012 to become (14/8/2012).
- The Contractor could not complete the works as he clearly stated in his letter No.32/2012 Dated 30/9//2012, so we wrote to him in Accordance to the General Conditions of the Contract- Clause 12/1 (Contractors Default) - Our Letter No. JVA/8/1/8821 dated 4/10/2012.
- A technical committee from JVA and Audit Department performed to study the Contract status, And the decision has been raised to J.V.A Secretary General. Upon the Secretary General comments on the Contractor letter No. 50/2013 Dated 20/4/2013 where the Contractor request mercy, the committee decision reconsidered and still under study.
- The General Secretary approved the decision which was taken by the Technical Committee to terminate the Contract in accordance to Clause 12/1 " Contractors Default" Contract Document – General Condition.
- The decision directed to the JVA financial department for action.
- **COMPLETED - Finally Handed Over /Contract Terminated in accordance to Clause 12/1 "Contractor's Default"**

Contract No. R/09/2011

**COMPLETED - Finally Handed Over /Contract Terminated in accordance to Clause 12/1
"Contractor's Default"**

Construction of Abu Hefneh & Al-Bandan & Haqish

Contractor: Mousa Al-Kouz & Partner Company

Contract Amount 180600 JD

Excavation Quantity 300000m3

Contract Duration 210 Calendar Days

Contract Commencement Date 2/1/2012

Name of Bond	Bond Capacity M3	Bond Commencement Date	Executed Quantities To Date M3	Excavation Progress	Original Contract Completion Date	Actual Contract Completion Date	Progress JD	Tender Committee JD	Total Payments JD
Haqish	100000	30/5/2012	90000	90%	30/7/2012	20/4/2013	142782	1260	144042
Al-Bandan	100000	13/2/2012	70000	70%					
Abu Hefneh	54970**	25/3/2012	54970	100%					
Staff Gauges (6x150JD) (0.003%)			not executed						
Actual Contract Progress (84%)									

** the Location of Abu Hefneh bond was Changed according to citizen obstructions , consequently the final Capacity decreased .
And the final capacity will be determined according to the topography of the side

- 1- Contract Completion Date Extended (50) days by the Ministry of Public Works & Housing No 63/1/ 9661 date 9-4-2012 And the amendment completion date extended to 19/9/2012
- 2- The Contractor could not complete the works as he clearly stated in his letter No.95/2012 Dated 30/9//2012, so we are going to him in Accordance apply the condition of contract - Clause 12/1 (Contractors Default) – as stated in our letter J.V.A/8/1/8789 dated 4/10/2012.
- 3- A technical committee from JVA and Audit Department performed to study the Contract status, and the decision has been raised to J.V.A Secretary General. Upon the J.V.A Secretary General the Committee decision reconsidered due to the Contractor objections raised in his letter SH M/13/2013 DATED 20/4/2013 and the committee reaffirm the decision.
- 4- The General Secretary approved the decision which was taken by the Technical Committee to terminate the Contract in accordance to Clause 12/1 "Contractors Default" Contract Document – General Condition.
- 5- **COMPLETED - Finally Handed Over /Contract Terminated in accordance to Clause 12/1 "Contractor's Default"**

Phase Two Progress and Achievements Up To Date

Includes the construction of 7 ponds in Borqa, Al Bandan, Al Gelat and Arainbah watersheds. This phase is scheduled to start in January 2012 and ends in Nov. 2012. The activities of this phase will include:

Pond #	Contract No.	Pond/Dam Name	Capacity (1000m ³)	Pond coordinate		Wadi Name	Watershed Name
				North	East		
10	R/12/2011	Marab Al- Muhdith	100	32.3491	37.8786	Wadi Al - Muhdith	Borqo'
11		Omm Mahfor	100	31.9457	38.2295	Dumethat Omm Mahfor	Al-Bandan
12		Al-Dabee	100	31.9327	35.8986	Al-Dbee	Al-Gelat
13	R/1/2012	Al – Sbihi	150	31.8554° 1142961	37.6876° 404447	Al – Sbihi	Arainbah
14		Al–Bqiawia/2	100	32.0437° 1162721	37.0964° 348142	Al – Bqia wia/2	Arainbah
15	R/2/2012	Tal-Eqaria	100	31.8401° 1139056	36.2449° 267942	Al - Mishash	Al - Gelat
16		Al–Janab 2	100	31.7707° 1131459	36.3495° 277923	Al – Janab 2	Al - Gelat

Contract No. R/12/2011

COMPLETED - Substantially Handed Over

Construction of Omm Mahfor & Marab Al- Muhdith & Al-Dabee

Contractor: **Al Fakhar Company**

Contract Amount 174600JD

Excavation Quantity 300000m3

Contract Duration 210 Calendar Days

Contract Commencement Date 22/2/2012

Name of Bond	Bond Capacity M3	Bond Commencement Date	Executed Quantities To Date M3	Excavation Progress	Contract Completion Date	Actual Contract Completion Date	Progress JD	Tender Committee JD	Total Payments JD
Omm Mahfor	100000	10/5/2012	100000	100%	19/9/2012	15/7/2012	178689	1020	179709
Marab Muhdith	100000	23/2/2012	100000	100%					
Al Dabee	100000	23/2/2012	100000	100%					
Staff Gauges (6x150JD) (0.004%)			Executed						
Actual Contract Progress (100%)									

- The Contract substantially completed on 15/7/2012.
- Maintenance period (365) days started from 15/7/2012.
- **COMPLETED - Substantially Handed Over**

Contract No. R/2/2012 COMPLETED - Substantially Handed Over

Construction of Tal-Eqaria & Al-Janab 2

Contractor: **Said Al Shayeb Company**

Contract Amount 86600JD

Excavation Quantity 200000m3

Contract Duration 180 Calendar Days

Contract Commencement Date 01/6/2012

Name of Bond	Bond Capacity M3	Bond Commencement Date	Executed Quantities To Date M3	Excavation Progress	Contract Completion Date	Actual Contract Completion Date	Progress JD	Tender Committee JD	Total Payments JD
Tal Eqaria	100000	9/9/2012	77100	(12/10/2013) 77%	28/11/2012	12/10/2013	93429.685	1360	94789.685
Al Janab 2	100000	1/6/2012	97165	(28/02/2013) 97%					
Staff Gauges (6x100JD = (0.007%))			Not executed						
Actual Contract Progress (85%) In accordance to the Actual Excavated Quantities									
Staff Gauges (6x100JD = (0.007%))									

- The Site flooded in 9/1/2013 – no more progress.
- Decision was taken to suspend the works until the site dried out form water, and then the works will be resumed.
- The works expected to be resumed in October 2013.
- The works resumed in October 10th of October, 2013.
- The works substantially handed over on 12th of October 2013.
- Maintenance period started in 12th of October 2013 for (356) days.
- **COMPLETED - Substantially Handed Over**

Contract No. R/1/2011**COMPLETED - Finally Handed Over**

Construction of Al- Sabhe & Al-Biqawee/2

Contractor: **Al-Byareq Contraction Company**

Contract Amount 147986 JD

Excavation Quantity 250000 m3

Contract Duration 180 Calendar Days

Contract Commencement Date 1/5/2012

Name of Bond	Bond Capacity M3	Bond Commencement Date	Executed Quantities To Date M3	Excavation Progress	Contract Completion Date	Actual Contract Completion Date	Progress JD	Tender Committee JD	Total Payments JD
Al-Biqawee/	100000	1/5/2012	100000	100%	27/10/2012	30/10/2012	148476.6	1120	149596.6
Al- Sabhe	150000	2012/7/1	150000	100%					
Staff Gauges (6x81JD) (0.328%)			Executed						
Actual Contract Progress (100%)									

- The Contract substantially completed on 30/10/2012.
- Maintenance period (365) days started from 30/10/2012.
- **COMPLETED - Finally Handed Over**

