

## ANNEX 7 -COLLABORATION AND WEB PRESENCE

### COLL-COLLABORATION – ISSUES IN THE SECTOR

<b>DOCUMENT MANAGEMENT</b>	<b>COMMUNICATIONS</b>	<b>REGULATIONS AND PROCEDURES</b>
<b>CORRESPONDENT MANAGEMENT</b>	<b>INTERNET</b>	<b>VALIDATION AND CREATION</b>
	<ol style="list-style-type: none"> <li>1. REMOTE ACCESS</li> <li>2. NET MEETING “VIDEO CONFERENCING”</li> <li>3. PUBLIC INTERACTION</li> <li>4. E-GOV COMPLIANCE</li> </ol>	
<b>DOCUMENT INFORMATION MANAGEMENT (GREY LITERATURE) « THERE IS A TECH AND FIN PROPOSAL IN PLACE”</b>	<b>INTRANET</b>	<b>IMPLEMENTATION AND CHANGE MANAGEMENT</b>
Paperless office	<ol style="list-style-type: none"> <li>1- EMAIL</li> <li>2- MESSAGING</li> <li>3- RESOURCE ALLOCATION “COMMON CALENDAR AND WORK SPACE”</li> <li>4- NEWS AND EVENTS</li> <li>5- VOIP</li> <li>6- STAKEHOLDER CONTACT LIST</li> <li>7- NET MEETING “VIDEO CONFERENCING”</li> <li>8- SCHEDULING</li> </ol>	Compliance, high availability, increased efficiency, and accountability

## COLL-COLLABORATION AS IS SYSTEM SUPPORT

SOFTWARE	MWI	WAJ	JVA	PMU	LEMA	NGWA
LOTUS NOTES	✓	✓	✓	✓	✓	✓
IMAGE LINK + SIMPLE WORKFLOW		✓	✓	✓ IMAGE LINK + WORKFLOW BY LOTUS NOTES		
SHARE POINT		✓				
WEBSITE	✓ ENGLISH SITE: ASP.NET+MS-SQL ARABIC SITE: HTML <a href="http://WWW.MWL.GOV.JO">WWW.MWL.GOV.JO</a>			✓ HTML <a href="http://WWW.PMU.GOV.JO">WWW.PMU.GOV.JO</a>	✓ UNDER CONSTRUCTION <a href="http://WWW.LEMA.COM.JO">WWW.LEMA.COM.JO</a>	✓ HTML <a href="http://WWW.NAGWA.GOV.JO">WWW.NAGWA.GOV.JO</a>
DEWAN	COBOL	COBOL	ORACLE	LOTUS NOTES	ORACLE	COBOL : IN PROCESS OF MIGRATION TO ORACLE

### **Software Description:**

**1- Lotus Notes**

Communication by E-Mail.

**2- Image Link + Simple Workflow**

Import/Export Document, Document Control, Document Cycle, Document Procedure.

**3- Share Point**

Document Sharing, Events, News, Tasks, Conference, Email, Meetings, Lectures, Knowledge Management.

**4- Website**

Knowledge Management, Events, News.

**5- Dewan**

Import/Export Document, Document Control, Document Cycle, Document Procedure.

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**COLL-FUTURE FUNCTIONALITY REQUIREMENTS**

**Collaboration & Web Presence - Future Functionality Requirements**

Core Process	Description	System Interface		Current		Future (5-10) years			Notes
		Current	Future	Status	In progress	Must	Nice	No Need	
<b>Internal Memos</b>	Memorandum which is sent by a staff member either to his employee or to his manger within the organization.	Manual				Yes			Will save time and money in the sector
<b>Correspondence:</b>									
* Out going	Request from the sector for services or reply to official letters.	Manual				Yes			
* In coming	Official letters coming to the water sector.	Manual				Yes			
<b>Forms :</b>									
* Annual leave	Could be a day or couple of days	Manual				Yes			
* Hourly leave	During working days and it can't be more than 3 hours per day.	Manual				Yes			
* Sick leave		Manual				Yes			
* Car request form		Manual				Yes			
* Field incentive form		Manual							
*Travel data form		Manual				Yes			
* Annual evaluation form		Manual				Yes			
* Transport form		Manual				Yes			
* Car ownership form		Manual							
* Employment application		Manual				Yes			
* Quittance form		Manual				Yes			
* Assortments form		Manual				Yes			
* Payroll form									
* PC Maintenance									
* Items Order		Manual				Yes			
<b>Other desired features:</b> e.g. open source code, affordable license and support fees, local support, full Arabization									

**COLL-WAJ-DOCUMENT MANAGEMENT RETURN ON INVESTMENT**

■Costs 5 years)	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL	NPV
Vendor to develop solution	100,000	0	0	0	0	100,000	100,000
Software	200,000	20,000	20,000	20,000	20,000	280,000	266,243
Hardware	50,000	0	0	50,000	0	100,000	89,692
Maintenance	0	15,000	15,000	15,000	15,000	60,000	49,682
Internal costs to manage project	20,000	10,000	10,000	10,000	10,000	60,000	53,121
Additional costs (training, travel, consultancy, hiring,..etc.)	5,000	5,000	5,000	5,000	5,000	25,000	21,561
<b>TOTAL</b>	<b>375,000</b>	<b>50,000</b>	<b>50,000</b>	<b>100,000</b>	<b>50,000</b>	<b>625,000</b>	<b>580,298</b>

■Revenues (5 years)	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL	NPV
<i>Savings in direct employee hourly rates</i>							
Number of Employess	700	700	700	700	700	3,500	3,018
Average Hour Ratev	0.500	0.500	0.500	0.500	0.500	3	
Hours Saved per year	50	50	50	50	50	250	216
	17,500	17,500	17,500	17,500	17,500	87,500	75,462
Savings in material (paper, SW, HW, ..etc.)	150,000	165,000	181,500	199,650	219,615	241,577	778,297
Additional revenue streams	10,000	12,000	14,400	17,280	20,736	74,416	62,416
<b>TOTAL</b>	<b>177,550</b>	<b>194,550</b>	<b>213,450</b>	<b>234,480</b>	<b>257,901</b>	<b>403,743</b>	<b>916,391</b>

Net Cash Flows	-197,450	144,550	163,450	134,480	207,901	-221,258	<b>336,093</b>
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ROI	244%
Payback Period	1.12 years

## ANNEX 8 - INFRASTRUCTURE, E-READINESS & E-GOVERNMENT

### INFR.-REMOTE COST

Remote Site Name		PCs	Communications Devices*	Cabling/Outlets**	Server Room/Cabinet***	Server	Estimated Cost	Priority****	
<b>MWI</b>									
Jerash NGWA Office		7	1,2	2	Cabinet Needed	2	11000 JDs		
<b>JVA</b>									
JVA-HQ (Amman)		27				3	36,000		
JVA-Irrigation & Water resources Building (Amman)		17				1	20,000.00		
JVA-Dams & Tenders Building (Amman)		16				1	19,000.00		
Al Wehda Dam Under Construction		2	1,2,3	1	Cabinet Needed	1	9,100.00		
Wadi Al Arab Dam		4	1,2,3	1	Cabinet Needed		8,100.00		
Sharhabeel (Ziglab) Dam		4	1,2,3	1	Cabinet Needed		8,100.00		
King Talal Dam		4	1,2,3	1	Cabinet Needed	1	11,100.00		
Karameh Dam		6	1,2,3	1	Cabinet Needed		10,100.00		
Shueib Dam		4	1,2,3	1	Cabinet Needed		8,100.00		
Kafrein Dam		4	1,2,3	1	Cabinet Needed		8,100.00		
Wala Dam		6	1,2,3	1	Cabinet Needed		10,100.00		
Mujib Dam		4	1,2,3	1	Cabinet Needed	1	11,100.00		
Tannur Dam		4	1,2,3	1	Cabinet Needed		8,100.00		
North & Middle Al Ghours	North Al Ghour Directorate	North Directorate	6	1,2,3	2	Server Room Upgrade	1	16,200.00	
		<b>Stage Office 1</b>	3	1,2,3	1	Server Room Upgrade	1	13,100.00	

Remote Site Name		PCs	Communications Devices*	Cabling/Outlets**	Server Room/Cabinet***	Server	Estimated Cost	Priority****	
	Stage Office 2	3	1,2,3	1	Server Room Upgrade	1	13,100.00		
		3	1,2,3	1	Server Room Upgrade	1	13,100.00		
	Middle Al Ghour Directorate	Middle Directorate	6	1,2,3	2	Server Room Upgrade	1	16,200.00	
		Stage Office 3	3	1,2,3	1	Server Room Upgrade	1	13,100.00	
		Stage Office 4	3	1,2,3	1	Server Room Upgrade	1	13,100.00	
		Stage Office 5	3	1,2,3	1	Server Room Upgrade	1	13,100.00	
		Stage Office 8	3	1,2,3	1	Server Room Upgrade	1	13,100.00	
	South Al Ghour Directorate Al Karama	South Directorate (AlKarama)	6	1,2,3	2	Server Room Upgrade	1	16,200.00	
		Stage Office 6	3	1,2,3	1	Server Room Upgrade	1	13,100.00	
		Stage Office 9 Not Established Yet							
		Stage Office10 in the same location of the South directorate	3	1,2,3	1	Server Room Upgrade	1	13,100.00	
	Drainage Directorate		4	1,2,3	1	Cabinet Needed		8,100.00	
	Environmental Monitoring Directorate		4	1,2,3	1	Cabinet Needed		8,100.00	
	Environmental & Laboratory Directorate		9	1,2,3	2	New Server room needs	1	19,200.00	
Workshops (Fanoush) Middle Al Ghour		10			Server Room Upgrade	1	18,000.00		

Remote Site Name	PCs	Communications Devices*	Cabling/Outlets**	Server Room/Cabinet***	Server	Estimated Cost	Priority****
North & Middle Al Ghour Management building (Derar)	6	1,2,3	2	New Server room needs	1	16,200.00	
North & Middle Al Ghour stores (Derar) a building near the above one							
Follow up & Support Directorate	3	1,2,3	1	Cabinet Needed		7,100.00	
Control Center (Dir Alla)	12			Server Room Upgrade	4	29,000.00	
JVA-South Al Ghour (Ghour Al Safi) Management building	4	2,3		Server Room Upgrade		10,000.00	
JVA-South Al Ghour Al Mazraa' (Stage office 2)	2	1,2,3	1	Cabinet Needed	1	9,100.00	
JVA-South Al Ghour Al Naqaaa' (Stage office 1)	2	1,2,3	1	Cabinet Needed		6,100.00	
JVA-South Al Ghour Workshops & stores	3	1,2,3	1	Cabinet Needed	1	10,100.00	
JVA-South Al Ghour Wadi Araba	2	1,2,3	1	Cabinet Needed		6,100.00	
Lands Directorate (Dir Alla)	3					3,000.00	
<b>Total (JVA)</b>						<b>483,600.00</b>	
<b>NGWA</b>							
NGWA	3			Server Room Upgrade	2	14,000.00	1
				3Cabinet for" 12 Server"		6,000.00	
Irbid	6	2	1	NEW Server Room Needs	1	16,100.00	2
Ramtha	3	2	1	NEW Server Room Needs		10,200.00	2
Bani Ubaid	2			NEW Server Room Needs		7,000.00	3
Bani Kenana	2			NEW Server Room Needs		7,000.00	3

Remote Site Name	PCs	Communications Devices*	Cabling/Outlets**	Server Room/Cabinet***	Server	Estimated Cost	Priority****
Koura	3	2	1	NEW Server Room Needs		10,200.00	2
N. Shouna	2			NEW Server Room Needs		7,000.00	3
Jerash	6	2	2	NEW Server Room Needs	1	16,200.00	2
Ajloun	4			NEW Server Room Needs	1	12,000.00	3
Mafrag	5		1	NEW Server Room Needs	1	13,100.00	2
N.Badia	2		1	NEW Server Room Needs		7,100.00	3
<b>Total (NGWA)</b>						<b>125,900.00</b>	
<b>LEMA</b>							
Zai	0	1, 2	1	No	0	1,100.00	1
Sewerage	0	1,2	1	Cabinet Needed	0	4,100.00	1
Ras Al-Ein	0	No Need	1	Cabinet Needed	0	2,100.00	3
Ein Ghazal	0	0	1	Cabinet Needed	0	2,100.00	3
<b>Total (LEMA)</b>						<b>9,400.00</b>	

\* 1 = Router, 2 = Switch, 3 = Wireless Access Point

\*\* 1= 10 ≤nodes, 2 = 10-30 Node, 3 more than 30 nodes

\*\*\* Server Room upgrade, New Server Room needs, Cabinet Needed

\*\*\*\* 1= urgent 2=high 3=Normal

**INFR.-HARDWARE INVENTORY**

**MWI**

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
MWi	8	165	89		WIS	8		PII : 13	3	Network: 4		
					Finance			PIII: 42		Desktop :39		
					Attendances			PIV: 45				
					Training							

**JVA**

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
JVA-HQ (Amman)	9		86		1- ERP 2-LAND 3- PAYROLL 4- PERSONNEL 5- ARCHIVING & DIWAN	5		PII=3 PIII=4 PIV=59 Total=86	5	51+ (13 new in the stores)	1 bar code device	

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
					6-FINANCE (BUDGET, LOANS, PAYMENT, ACCOUNT) Old financial system to be replaced by ERP system							
JVA-Irrigation & Water resources Building (Amman)	1		39		1-GIS	1		PII=2 PIII=15 PIV=22 Total=39	1	22	1 GPS (Global Positioning System) not sure number	
JVA-Dams & Tenders Building (Amman)	1		21					PII=3 PIII=13 PIV=5 Total=21		21		
Al Wehda Dam Under Construction												
Wadi Al Arab Dam			2					PIII=1 PIV=1 Total=2		1		
Sharhabeel								No PCs		NO		

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
(Ziglab) Dam												
King Talal Dam			4					PI=1 PIII=3 Total=4		3		
Karameh Dam			4					PI=2 PII=2 PIII=2 Total=6		5		
Shueib Dam								No PCs		NO		
Kafrein Dam			1					PIII=1 Total=1		2		
Wala Dam			6					PII=4 PIII=2 Total=6		7		
Mujib Dam								No PCs		NO		
Tannur Dam			2					PII=2 Total=2		4		

Org. Unit		# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters	
North & Middle Al Ghours	North Al Ghour Directorate	North Directorate		7		1- WMIS (IS, WD, WCS)	1		PI=3 PIII=3 PIV=1 Total=7		4			
		Stage Office 1		3		1- WMIS(IOP, PRP, BAA)	1	444 farmer	PI=2 PIII=1 Total=3		1			
		Stage Office 2		3		1- WMIS(IOP, PRP, BAA)	1	913 farmer	PI=2 PIII=1 Total=3		1			
		Stage Office 7 in the same location of the North directorate		3		1- WMIS(IOP, PRP, BAA)	1	1129 farmer	PI=1 PIII=2 Total=3		2			
	Middle Al Ghour Directorate	Middle Directorate			7		1- WMIS (IS, WD, WCS)	1		PI=2 PII=1 PIII=3 PIV=1 Total=7		6		
		Stage Office 3			3		1- WMIS(IOP, PRP, BAA)	1	471 farmer	PI=2 PIII=1 Total=3		1		

Org. Unit		# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters	
		Stage Office 4		3		1- WMIS(IOP, PRP, BAA)	1	644 farmer	PI=2 PIII=1 Total=3		2			
		Stage Office 5		3		1- WMIS(IOP, PRP, BAA)	1	575 farmer	PI=2 PIII=1 Total=3		1			
		Stage Office 8		2		1- WMIS(IOP, PRP, BAA)	1	986 farmer	PI=1 PIII=1 Total=2		1			
	South Al Ghour Directorate Al Karama	South Directorate (AlKarama)		6		1- WMIS (IS, WD, WCS)	1		PI=1 PII=1 PIII=3 PIV=1 Total=6			3		
		Stage Office 6		4		1- WMIS(IOP, PRP, BAA)	1	989 farmer	PI=1 PIII=1 Total=2			1		
		Stage Office 9 Not Established Yet		0				0	No PCs			NO		
		Stage Office10 in the same location of the South directorate		3		1- WMIS(IOP, PRP, BAA)	1	496 farmer	PI=2 PIII=1 Total=3			2		

Org. Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
Drainage Directorate			2					PI=1 PIII=1 Total=2		2		
Environmental Monitoring Directorate			2					Total=2		1		
Workshops (Fanoush) Middle Al Ghour	1		10		1-Ware houses system	1 PC used as a database server		PC486=1 PI=5 PIII=2 PIV=2 Total=10		4		
North & Middle Al Ghour Management building (Derar) + Follow up & Support Directorate			10					PI=2 PIII=4 PIV=3 Total=10		3		
Control Center (Dir Alla)	3		16		1- SCADA System 2- WMIS (WSM, HDM, SFF, WMS)	5		PI=4 PII=3 PIII=6 PIV=3 Total=16		13		

Org. Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
JVA-South Al Ghour (Ghour Al Safi) Three locations (Al mazraa', Al Naqaaa', the main building)	3		29		1-WMIS(IOP, PRP, BAA)	2 servers +2 PCs used as servers	1550 farm units	Total=32		11		
Lands Directorate (Dir Alla)			3					PIII=3 Total=3		1		

#### WAJ

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Scanners	Hand Held	SMS meters
WAJ	25	30	294	400	4	1		394 (2PI, 67PII, 63PIII, 262P4)	2	208	17		15
					Billing	Aphla 4100							
					H.R & finance	Dell							
					Dewan Center	IBM							
					Ownership الاستملاك	Aphla 4100							
					Archive System	IBM P3							
					Lower	Aphla 4100							
					Document	IBM P3							

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Scanners	Hand Held	SMS meters
					Management	933							
					Wells System الأبار	Aphla 4101							
					( Complaint) الشكاوى	HP 8400							
					Attendance System	HP 4441							
					نظام الدوام	HP Xeon							
					Stores System نظام	3.2							
					المستودعات	HP P4 3.2							
					FAS	IBM P3							
					Time Attendance	933							
					PMFO	Dell P2							
					GMBD	HP P4 3.4							
					Documents	Dell P2							

#### PMU

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
PMU	2	45	40	45	3, KPI, ACCPAC and Dewan	5	LEMA, and its customers	40	7	Network - 3 Desktop -15	0	0

## LEMA

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
<i>Alhusein HQ</i>	7		250		X7 , accpac,HR,dewan	12		200	9	56		
swaileh	0		2		X7	0		2	0	1		
westamman	0		9		X7	0		9	0	4		
marka	0		2		X7	0		2	0	1		
rasein	0		45		X7	1		35	0	11		
einghazal	0		24		X7 and CMMS	2		24	4	11		
marjalhamam	0		1		X7	0		1	0	1		
southamman	0		11		X7	1		8	0	4		
zai	1		20		CMMS	1		20	1	9		

## NGWA

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Server	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
<b>NGWA .Mafrag</b>	<b>NO</b>	<b>228</b>	<b>12</b>	<b>5</b>	<b>5</b>		<b>24687</b>	<b>12</b>	<b>NO</b>	<b>8</b>	<b>NO</b>	<b>5</b>
					1. BMFO							
					2. ArcView							
					3. GIS							

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Server	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
					4. MMS							
					5. Lotus Notes							
<i>Mafrag . Badia</i>	NO	107	5				7480	6	NO	NO	NO	2
<i>NGWA .Ajloun</i>	NO	166	13	15			14246	13	NO	11	NO	2
<i>NGWA .jerash</i>	NO	172	12	6	3		19588	12	NO	6	NO	5
					1. MMS							
					2. ArcView							
					3. Lotus Notes							

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
<i>NGWA</i>							192694	23(P3&less)				23
<i>NGWA . HQ</i>	12	452	105	5	19	10		102	4	35	NO	

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
					1. Billing							
					2. Payroll					1 network		
					3. Dewan					2 Line		
					4. Sewerage					32 Desk		
					5. HRIS							
					6. Purchases							
					7. Time Attendance							
					8. Governmental Bills							
					9. aging Report							
					10. BMFO							
					11. MMS							
					12. CVS							
					13. Maintenance							
					14. ArcIMS							
					15. GIS							
					16. ACCPAC							
					17. Lotus Notes							
					18. NGWA Website							

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
					19. Intranet							
NGWA. laboratories	NO		7	3	1			7	NO	4	NO	NO
					1.laboritories							
NGWA .Warehouse	NO		NO	2	Sight in Progress			NO	NO	NO	NO	NO

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
NGWA Irbid HQ		589					~128108~					9
Irbid HQ.Irbid	NO	236	23	3	8	NO	75000	21	NO	2	NO	
					1. Billing							
					2. GIS							
					3. Register							
					4.Receipts							
					5. Sewerage							
					6. Time Attendace							
					7. MMS							

Org Unit	# of IT Staff	# of Staff	# of Users	# of Potential Users	# of and Name of Systems	Servers	Customer base	Desktops	Laptops	Printers	Hand Held	SMS meters
					8. Lotus Notes							
<i>Irbid HQ .Ramtha</i>	NO	86	6	1	5	NO	11179	6	NO	3	NO	
					1. Billing							
					2.Sewerage							
					3.MMS							
					4. GIS							
					5. Lotus Notes							
<i>Irbid HQ .Koura</i>	NO	57	6		5	NO	11081	6	NO	4	NO	
					1. Billing							
					2.Sewerage							
					3.MMS							
					4. GIS							
					5. Lotus Notes							
<i>Irbid HQ. Bani kenan</i>	NO	63	2	6	Sight in Progress	NO	10500	2	NO	6	NO	
<i>Irbid HQ.Bani Ubaid</i>	NO	62	6	6	Sight in Progress	NO	14537	6	NO	4	NO	
<i>Irbid HQ. N.Shouna</i>	NO	85	2	5	Sight in Progress	NO	10534	2	NO	1	NO	

**INFR- SITE TYPE**

**WAJ**

Site Type	place	Systems		Users	Bulk Data Flows	WAN/LAN Connectivity
		Existing	Planned			
<b>WAJ</b>						
Central Stores	Ein Ghazal	FAS Inventory Cobos: To be fully replaced by FAS Attendance Diwan	None	60 Users	Inventor, HQ FAS traffic	Exist
Central Labs	Wadi Al-Seer	Labs LAMES, Attendance	None	67 User	Stocks, purchases	LAN, No WAN Connectivity
Area Directorate	Kerak	Billing Cobus 0, Attendance GEMED BMFO GIS	X7	45	WIS traffic	Legacy LAN, WAN
Area Directorate	Zarqa	Billing Cobus 0, Attendance GEMED BMFO Diwan	X7	40	WIS traffic	Legacy LAN, WAN
Area Directorate	Ma'an	BMFO GEMED		6	WIS Traffic	No LAN, WAN
Area Directorate	Al-Salt	BMFO GEMED		15	WIS Traffic, CIS query	None, WAN will be installed next week
Area Directorate	Madaba	BMFO GEMED GIS	X7	20	WIS Traffic	None, WAN will be installed next week
Area Directorate	Tafeeleh	BMFO GEMED	None	6	WIS Traffic, CIS query	No LAN, WAN

Site Type	place	Systems		Users	Bulk Data Flows	WAN/LAN Connectivity
		Existing	Planned			
<b>WAJ</b>						
Workshops	Rsaifeh	<i>Workshop and Vehicles, Preventive Maintenance, Attendance</i>	<i>FAS</i>	15	<i>No traffic</i>	Exists
CIS Points Kerak	3, Qaser, Mazar, Ghour AlSafi	<i>No Systems,</i>	<i>No</i>	N/A	<i>No Traffic</i>	None
CIS Points Madaba	1, Theeban	<i>No Systems,</i>	<i>No</i>	N/A	<i>No Traffic</i>	None
CIS Points, Salt	4, Fhais, Shuneh, Maadi, Baqa'a	<i>No Systems,</i>	<i>No</i>	N/A	<i>No Traffic</i>	None
CIS Points, Zarqa	1, Rsaifeh	<i>Dumee Terminal</i>	<i>No Systems,</i>	N/A	<i>No Traffic</i>	None
CIS Point, Ma'an	2, Wadi Mousa, Shobak	<i>No Systems,</i>	<i>No</i>	N/A	<i>No Traffic</i>	None
HQ	Amman	<i>Billing Cobus 0, FAS, HR Cobus, Diwan, Archiving, Legal, Attendance, Customer Service System, Acquisition, GIS, GEMED, BMFO, Wells "Billing System associated",</i>	<i>Document Management, X7,</i>	420	<i>WIS traffic, FAS Traffic</i>	WAN, LAN

**JVA**

Site Type	place	Systems		Users	Bulk Data Flows	WAN/LAN Connectivity
		Existing	Planned			
<b>JVA</b>						
Stores	1 central (HQ) 9 Stores (Remote)	Oracle Inventory	Email Internet Archiving	26 central 5 remote This number to be extended	Stocks, Purchases, and requests to and from Entity HQ	just three locations(Derar, fanoush & the stores directorate located in the irrigation & water resources building) are contacted to the central location & have LAN, but the others don't have LAN & they are not connected to the central (Safi, Drainage Directorate, Qleat, Al Karama Dam, King Talal Dam & Shueib Dam). They send there information as a hard copy to the central.
Directorates	North & Middle Al Ghour Management (Derar)		Email Internet Archiving	7		No LAN except a UTP cable is connected directly from the Secretary General Assistant PC to the North & Middle AL Ghour Stores building LAN near no it.
	Ghour Al Safi Management		Email Internet Archiving	13		Internal LAN, There is a dial up connection to the HQ network (Not used).
	Dams & Tenders Directorates Building		Email Internet Archiving	21		Internal LAN & a WAN connection to the HQ.
	irrigation & water resources Directorates Building		Email Internet Archiving	39		Internal LAN & a WAN connection to the HQ.
	3 sites North, Middle and South	WMIS	Email Internet Archiving	3 central main users for WMIS	Water level information	These Directorates have a dial up connection to the control center, But they need to be connected to the HQ network.

Site Type	place	Systems		Users	Bulk Data Flows	WAN/LAN Connectivity
		Existing	Planned			
<b>JVA</b>						
Dams	10 Dams at different locations	No systems	Connection to the control center to be able to send the water information through the network not by the telephone		water information	They have no LANs & some of the dams have no PCs at all, dams need to be connected to JVA WAN.
Control center	1	WMIS SCADA system	Email Internet Archiving	15	Water information	It has LAN & it is connected to JVA network.
stage offices	9 in North & Middle Al Ghour and 2 in Ghour Al Safi at Al Mazraa' and Al Naqea'	WMIS		From two to three users at each stage office	farmers water demands & billing information	Regarding the stage offices in North & Middle Al Ghour they have internal LAN & a dial up connection to control center. At each stage office there is a server if these stage offices have good network connection to the control center and have just clients to a main server in the control center this will reduce the costs of the servers maintenance and the costs of the UPSs potteries
<i>Note: The number of users for the planned systems to be estimated.</i>						

## NGWA

Site Type	place	Systems		Users	Bulk Data Flows	WAN/LAN Connectivity
		Existing	Planned			
<b>NGWA</b>						
Store	Hufa	NO System	FAS	5	Stocks, purchases	In Progress
Store	Jerash/Shwahed	NO System	FAS	2	Stocks, purchases	NO LAN or WAN
Store	Ajloun	NO System	FAS	1	Stocks, purchases	In Progress
Store	Koura	NO System	FAS	1	Stocks, purchases	
Store	Ramtha	NO System	FAS	2	Stocks, purchases	
Store	Mafrq	NO System	FAS	2	Stocks, purchases	
Store	BaniKenana	NO System	FAS	1	Stocks, purchases	In Progress
Store	N . Shouna	NO System	FAS	1	Stocks, purchases	In Progress
Store	Badia	NO System	FAS	1	Stocks, purchases	In Progress
Water Treatment Plants	Wadi Arab	SCADA		2		NO LAN or WAN
Water Treatment Plants	Jerash"( Souf ; Al-shwahd ; Ain al-Deek ; Al-Qairawan)"	NO System	SCADA	3		NO LAN or WAN
Water Treatment Plants	Ajloun " Qantara "	NO System	SCADA	2		NO LAN or WAN
Water Treatment Plants	Mafrq "Znaiah ; Rwashd ; Safawi "	NO System	SCADA	2		NO LAN or WAN
Waste Water Treatment Plant	Douqara ; Wadi hassan ;	SCADA	SCADA	3		NO LAN or WAN
Customer Service	Irbid	COBOL & Oracle		5	Billing data and customer data	Exist LAN and WAN
Customer Service	Jerash	COBOL & Oracle		2	Billing data and customer data	Exist LAN and WAN
Customer Service	Ajloun	COBOL & Oracle		1	Billing data and customer data	In Progress
Customer Service	Mafrq	COBOL & Oracle		3	Billing data and customer data	Exist LAN and WAN
Customer Service	N . Shouna	COBOL & Oracle		2	Billing data and customer data	In Progress
Customer Service	N .Badia	COBOL & Oracle		1	Billing data and customer data	In Progress
Customer Service	Bani Kenana	COBOL & Oracle		2	Billing data and customer data	In Progress
Customer Service	Bani Ubaid	COBOL & Oracle		2	Billing data and customer data	In Progress
Customer Service	Ramtha	COBOL & Oracle		2	Billing data and customer data	Exist LAN and WAN
Maintenance Workshops	Hufa	NO System				In Progress

Site Type	place	Systems		Users	Bulk Data Flows	WAN/LAN Connectivity
		Existing	Planned			
<b>NGWA</b>						
Maintenance Workshops	Wadi Hassan	NO System				NO LAN or WAN
Maintenance Workshops	Wadi Arab ;	NO System				NO LAN or WAN
Maintenance Workshops	Douqara	NO System				NO LAN or WAN
Maintenance Workshops	Ramtha	NO System				
Labs& Quality	NGWA " Irbid "	Oracle" Lab "		3	Reports	NO WAN/ Exist LAN
Pump Station In NGWA	1- Wadi Arab 2- Samad 3- Hufa 4- khaldeya 5- Um al-lolo	NO System				NO WAN/ Exist LAN
Pump Station In Irbid	1- Fou'ara 2-Bushra 3- Kufur Youba 4- al-taybah 5- Rahoub 6- juhfiyya	NO System				NO WAN/ Exist LAN
Pump Station IN Bani Kenana	1-Saham 2-Al-Mukaiba Alfuqa	NO System				NO WAN/ Exist LAN
Pump Station in Ramtha	1- alshajara	NO System				NO WAN/ Exist LAN
Pump Station in Koura	1- Judyta 2- Oyoun Al-Hammam	NO System				NO WAN/ Exist LAN
Pump Station In Badia	1- Um alJemal 2- al-Rafayyat 3- Mkat 4-Mukefteh 5- Amra&Amira 6-sabha&Sobheia 7-KHashaa alsalteen 8- alrweeshed	NO System				NO WAN/ Exist LAN
Pump Station in mafrag		NO System				NO WAN/ Exist LAN

Site Type	place	Systems		Users	Bulk Data Flows	WAN/LAN Connectivity
		Existing	Planned			
<b>NGWA</b>						
	1-al-kum alahmar 2-Znaiah 3-Sweilmeh 4- Daqamseh					
Pump Station in Ajloun	1-Qantara 2-Ishtafena 3- Anjara 4-Ain Jana 5- Kufuranja 6- Zuqaiq	NO System				NO WAN/ Exist LAN
Pump Station in Jerash	1-Ain Aldeek 2- al shwahed 3- West Souf 4- Sakeb 5-Ain Algadeer 6-alrayashy	NO System				NO WAN/ Exist LAN
Public Wells	9 in Ajloun	NO System			BMFO	NO LAN or WAN
Public Wells	14 in jerash	NO System			BMFO	NO LAN or WAN
Public Wells	26 in mafraq	NO System			BMFO	NO LAN or WAN
Public Wells	18 in badia	NO System			BMFO	NO LAN or WAN
Public Wells	42 in ngwa	NO System			BMFO	NO LAN or WAN
Public Wells	5 in irbid	NO System			BMFO	NO LAN or WAN
Public Wells	8 in shouna	NO System			BMFO	NO LAN or WAN
Public Wells	8 in Ramtha	NO System			BMFO	NO LAN or WAN
Public Wells	3 in Bani Ubaid	NO System			BMFO	NO LAN or WAN
Public Wells	4 in bani kenana	NO System			BMFO	NO LAN or WAN
Public Wells	3 in koura	NO System			BMFO	NO LAN or WAN

Site Type	place	Systems		Users	Bulk Data Flows	WAN/LAN Connectivity
		Existing	Planned			
<b>NGWA</b>						
Network Station Design	Mafrag / N . Badia / Irbid / n . Shouna / Koura / Ramtha / Bani Kenana / Bani Ubaid / Jerash / Ajloun / NGWA	GIS & MMS		2in NGWA & 1 in each site	GIS & MMS	All Site will connected next 2 Months

## LEMA

Site Type	place	Systems		Users	Bulk Data Flows	WAN/LAN Connectivity
		Existing	Planned			
<b>LEMA</b>						
Store	Alhusein	Oracle application developed locally	FAS	4 users	Stocks, purchases	Exist
Store	South Amman	Oracle application developed locally	FAS	2 users	Stocks, purchases	Exist
Store	Einghazal	Oracle application developed locally	FAS	2 users	Stocks, purchases	Exist LAN and WAN
Store	ZAI	Oracle application developed locally	FAS	1 user	Stocks, purchases	No WAN
Customer Service	Ras ein	X7		30 users	Billing data and customer data	Exist LAN and WAN
Customer Service	South Amman	X7		5 users	Billing data and customer data	Exist LAN and WAN
Customer Service	Sweileh	X7		2 users	Billing data and customer data	Exist LAN and WAN

Site Type	place	Systems		Users	Bulk Data Flows	WAN/LAN Connectivity
		Existing	Planned			
<b>LEMA</b>						
Customer Service	Marka	X7		2 users	<i>Billing data and customer data</i>	Exist LAN and WAN
Customer Service	West Amman	X7		2 users	<i>Billing data and customer data</i>	Exist LAN and WAN
Customer Service	Marj alhman	X7		1 user	<i>Billing data and customer data</i>	Exist LAN and WAN
Maintenance stations	South Amman	<i>No system</i>		2 users	<i>Customer complaints</i>	Exist LAN and WAN
Maintenance stations	West Amman	<i>No system</i>		2 users	<i>Customer complaints</i>	Exist LAN and WAN
Maintenance stations	Ein ghazal	<i>No system</i>		2 users	<i>Customer complaints</i>	Exist LAN and WAN
Maintenance stations	Ein ghazal Sewerage	<i>No system</i>		2 users	<i>Customer complaints</i>	Exist LAN and WAN
Facilities maintenance unit	Ein ghazal	<i>CMMS</i>		15 user	<i>Documents and sheets</i>	Exist LAN and WAN
Water treatment labs	ZAI	<i>Special treatment applications</i>		20	<i>Reports</i>	No WAN connectivity