



Israeli Military Offensive on Gaza Fast Track Repairs and Recovery Plan Report for Water and Waste Water Facilities

20 Jan. – 05 Feb. 2009

Gaza - Palestine

Feb. 2009

TABLE OF CONTENTS

	Page
ACKNOWLEDGEMENT	1
1.0 INTRODUCTION	2
2.0 FINANCING AGENCIES	3
3.0 FAST TRACK REPAIRS	4
4.0 IMPLEMENTATION PLAN PROGRESS	5
ANNEX 1: DETAILED TABLES FOR DAMAGES REPAIRS	6
ANNEX 2: SELECTED DAMAGES REPAIR IMAGES	14

ACKNOWLEDGEMENT

The Coastal Municipalities Water Utility (CMWU) would like to highly appreciate the exceptional interventions of the World Bank, ICRC, UNRWA, ACF, UNICEF and OXFAM during the Israeli Military Operation in Gaza Strip in distributing water and fuel in various inaccessible locations, especially in Gaza and Northern areas.

It's also important to highlight the readiness that presented some of the financing agencies such as the World Bank, ICRC, QRC, UNDP, KFW, ANERA, Save the Children, CARE, UNICEF, Oxfam, ACF, SIDA and others to finance the Recovery Plan based on the Damage Assessment Report issued by CMWU.

Special appreciation to the PWA management for their support to CMWU during and after the Israeli Military Offensive on Gaza through out facilitate fund mobilization for damages repair purposes and coordination with Israeli side to deliver the urgent need for the materials and equipments to Gaza.

1.0 INTRODUCTION

The Coastal Municipalities Water Utility (CMWU) is the service provider for all water and wastewater services through out all Gaza strip governorates. This role is financially supported by the CMWU partners such as World Bank, EU, KFW, UNICEF, Care, ICRC, ACF, QRC, UNRWA and others. Also CMWU has a very good cooperation with other working NGO's in the water sector under EWASH group and WATSAN.

Few days after the cease fire, a meeting for the water sector group was held in order to present the draft Damages Assessment Report (Jan. 2009) for all water and waste water infrastructure and facilities which had been damaged during the Israeli Military Offensive on Gaza Strip, which lasted 22 days of the Palestinian infrastructures destructions. The report showed that a total damages estimates reaches up to 6 Million \$ USD as a preliminary figure so far and it may become more since every day there are some new damages found in other areas of the Gaza Strip which still under construction debris.

This report is a complementary document to the Damage Assessment Report (Jan. 2009) showing the work done during and after the Gaza War till the fifth of February 2009. It is representing the first step in the implementation plan described in the Damage Assessment Report named Fast Track Repairs and Recovery Plan which describes the response of the CMWU teams and the municipal technical teams in order to re-habilitate some of the main water and sewage carriers damage in order to provide the minimum services to the most affected areas especially in Gaza and Northern area. This fast track has been followed from the first week of the IDF-MO in the Gaza Strip in cooperation with the ICRC, UNRWA, OCHA and PWA agencies in trying to get a green light from the IDF to enter the damaged sites in order to fix the damages and run back the services. Even though, the IDF refused to do so. CMWU kept trying in cooperation with our partners until one week before cease fire to fix damages where CMWU team could only re-fill fuel in BLWWTP Infiltration Pumping Station beside repair the damages in the carrier pipe line in El Naser - Rafah. This track has been financially supported by our partners UNICEF and ICRC who allocated a direct emergency budget beside GEWP World Bank finance in order to repair damages.

After the cease fire there were an important measures and actions which have been taken in order to maintain the water and waste water services running trying to avoid any environmental and health catastrophe especially where mixing of water and waste

water may happen, as well as flooding of sewage in areas of broken main pressure sewage pipes (e.g. in Beit Hanoun, Beit Lahia, West of Jabalia, East and West of Gaza City,...). A summary of these measures and actions in forms of supplying spare parts and/or assigning contractors to do the urgent repairs of damaged facilities are summarized in different tables of the report.

2.0 FINANCING AGENCIES

The following table summarizes the CMWU partner's commitment in contribution to finance the Fast Track intervention to repair most urgent damages. This is in addition to their commitment to finance the Damages Recovery plan that was prepared by the CMWU in cooperation with the municipalities of Gaza Governorates;

Table 1: CMWU Partners Committed Contribution

Financing Agency	Committed Activities to Finance
World Bank	Rehabilitation of leakage in the water and wastewater networks, besides sharing in the recovery plan for the sector in the medium and long term
UNICEF	50,000 USD as the fast track intervention (cash assistance) 150,000 USD for water networks rehabilitation (in process) Supply chlorine for disinfection (50,000 USD)
ACF	Participate in water distribution program for un served areas due to water networks damages Supply diesel fuel (50,000L) to the CMWU assets Emergency cleanup of sewage network and facilities and repair of the sewage lagoons in GWWTP
CARE	Provide water tanks for customers Committed 80,000 USD for water network rehabilitation in Beit Lahia
Oxfam	Participation in 185,000 USD for Spare parts, water tanks and family Hygiene kits
ICRC	Provide three generators for Khan Younis wells Supply spare parts for water networks (on going) Rehabilitation of some wastewater networks in Rafah
QRC	Committed 600,000 USD for re-construct the destroyed water wells, rehabilitation of damaged water wells and wastewater network rehabilitation
UNDP	Committed to re construct of water reservoir in Jabalia Monitor the water quality in the tank afterwards
Islamic Relief	Construct the water carrier line in Rafah Participate in the recovery plan to drill water well in Khan Younis
UNRWA	Distribution of 150,000 liters Fuel for water and wastewater assets during and after the IDF-MO
SIDA-PWA	400,000 USD to construct two water wells and procure water/waste water spare parts and generators
KFW	Commitment to finance 70,000 USD as fast track rehabilitation 200,000 USD sharing in the recovery plan of GWWTP lab and a sewage network
Save the Children	Commitment to procure spare parts and water network rehabilitation in different areas

3.0 FAST TRACK REPAIRS

The first priority in this track is to serve peoples with water and stop sewage flooding, and during this track the CMWU disburse more than 335,000\$ USD for water and waste water system damages repairs, more than 50% of which is for repairing water wells and water network. A summary of the disburse amount by categories and beneficiary areas is described in the following table;

Table 2: Disbursement by Category and Beneficiary Area

Repair Category	Disbursed Budget \$ USD						Total By Beneficiary Area
	Waste Water Facilities Repairs	Water Wells Facilities Repairs	Water Networks Facilities Repairs	Strom Water Facilities Repairs	WW Networks Facilities Repairs	Water & WW Civil Facilities Repairs	
Area							
Beit Hanoun		45,200		15,000	5,800	5,000	71,000.0
Beit Lahia	10,600	2,000	25,419.6		3,800		41,819.6
Jabalia		7,500	17,569.6		16,000		41,069.6
Gaza	1,400	5,800	6,497	27,500	9,000	18,500	68,697.0
Mograga		600	1,751.5				2,351.5
Zahra		100					100.0
Nussirate			8,903				8,903.0
Mawasi		3,000					3,000.0
Khan Younis		70,000					70,000.0
Rafah		4,000	4,510				8,510.0
Abbasan Kabira			1,845				1,845.0
Fukhari			3,570				3,570.0
Om Nasser - Rafah			1,650				1,650.0
CMWU - Store						14,000	14,000.0
Total By Repaired Category	12,000	138,200	71,715.7	42,500	34,600	37,500	336,515.7

The disbursed budgets in the repair of damages have been covered by allocated budget from UNICEF, ICRC besides GEWP World Bank. A detail of the work done in each category is illustrated in the Annexes.

4.0 IMPLEMENTATION PLAN PROGRESS

As detailed in the Damages Assessment Report that CMWU had proposed an implementation plan to re-establish the water and waste water facilities to the normal services especially in the most affected areas (Northern area, Gaza city and Rafah) by proposing three tracks (Fast, Intermediate and Long Term Plans) and as time passing, the first stage is being started as detailed above, the other two tracks is still under document preparation and fund appraisals. These two tracks are also important as well as the fast track, where it will secure water and waste water to re-allocated peoples and it will be in parallel to the Gaza housing re-construction projects.

ANNEX 1

**DETAILED FAST TRACK
MEASURES AND ACTIONS**

Fast Track in Waste Water Facilities

Works Description	Governorate	Area	Facility Name	Status	Total Cost \$ USD
Repair and refurbishment of damaged 160KVA Perkins type power supply diesel generating set Replacement of damaged exhaust pipe Repair of generator control panel Replacement of batteries	North	Beit Lahia	Al Mashroa'a sewage pumping station	Completed	3,500.00
Repair and refurbishment of 200KVA power supply diesel generator.			BL Sewage PS -Al Attatra	Completed	600.00
Electrical Repair the destruction in Abdel Hameed pumping station			Abdel Hameed pumping station	On Going	5,000.00
Electrical Repair of Anan Pumping station			Anan Pumping station	Completed	1,500.00
Supply , install and connect batteries for 900KVA standby power supply diesel generating set rated 180AH	Gaza	Gaza	Gaza WWTP	Completed	900.00
Supply , install and connect batteries for standby power supply sludge pumps diesel drive engine rated 105AH					300.00
Providing El- Fawayda Pumping Station and El Samer Pumping Station with two of 200-liter water tanks.				Completed	200.00
Total USD\$					12,000.00

Fast Track in Water Wells Facilities

Works Description	Governorate	Area	Facility Name	Status	Total Cost \$ USD
Repair and refurbishment of destroyed and damaged Khadija water well C155 at Beit Hanoon	North	Beit Hanoun	Khadija well C/155	On Going	5,000.00
Repair and alignment of borehole				On Going	2,000.00
Supply and install complete submersible water pumping set				On Going	7,000.00
Supply and install electrical switch board				On Going	12,000.00
Supply and install chlorine dosing pump.				On Going	4,000.00
Supply and install well head containerized operator room.				On Going	8,000.00
Rectification and repair of all mechanical pipe work installations with all associates.				On Going	5,000.00
Remove debris and concrete from the site to prepare the well for rehabilitation.				On Going	1,000.00
Supply and install complete 100KA Moeller type lightning protection arrestor with all associated fittings and accessories		Beit Lahia	Al Nada C/137	Completed	500.00
Supply , install and connect batteries for standby power supply diesel generating set rated 105AH				Completed	700.00
Electrical Replacement of spare parts and re operation safely		Beit Lahia	Atattra Well D/67	Completed	2,000.00
Repair and rewinding of damaged 100hp hollow shaft electric motor		Jabalia	Al Zohoor well D/75	Completed	2,500.00
Repair of damaged self starting motor of 200KVA generator at Abu Shareikh well -Eastern				Completed	2,000.00
Repair Awqaf water well NoC79 in Beit Hanoun.				Completed	3,000.00
Replace damaged 4X70mm2 XLPE copper cable of 1 meter length to connect water well with all associated fittings and accessories.	Gaza	Gaza	Al Hadaba - Al Maslakh well	Completed	500.00
Supply , install and connect batteries for standby power supply diesel generating set rated 135AH				Completed	700.00
Supply , install and connect batteries for standby power supply diesel drive engine rated 105AH				Completed	400.00
Supply and install PE roof mounted water tanks for water booster to pump the water to Al Zitoon area				Completed	4,000.00
Electrical Repair and re operation of Shejaya Well No. 4			R/113A	Completed	100.00
Electrical Repair and re operation of Safa water wells			Safa Wells Group	Completed	100.00
Supply and install lightning protection bridge with all associated ampere meter and voltmeter required to switch on the water well again.	Middle	Al Moghrakah	Al Moghraka water well F/203	Completed	600.00
Electrical Repairs to operate Zahra well		Zahra	Zahra Well	Completed	100.00
Supply and install emergency PE water tanks of 5000 liters and 2000 liters capacity with all associated supports and plumbing fixtures.	Khanyounis	Al Mawasi	Mawasi	Completed	3,000.00
Provide 3 Generators to Khan Younis Wells By ICRC		Khanyounis	Water Wells	Completed	70,000.00
Electrical Replacement of soft starter	Rafah	Rafah	Abu Zuhri P/139	Completed	2,000.00
Supply and install three pole,400A, ,Moeller type circuit breaker of NZMN3 400A for Rafah water booster station with all associated fittings and accessories. (Water Booster Station)			Ex-settlement area	Completed	2,000.00
Total USD\$					138,200.00

Fast Track in Water Networks Facilities

Item Description	Governorate	Area	Done By				Total Cost (\$)		
			Municipality	Handala Co.	Jwade Khuail Co.	El Khaisy Co.			
Repair and connect UPVC pipes 160 mm	North	Biet Lahia-El Amerkia					550.00		
Repair and connect UPVC pipes 110 mm							5,462.00		
Repair Steel pipes 3"							20.00		
Repair and connect UPVC pipes 160 mm							642.40		
Repair MDPE pipes 50 mm							8.00		
Repair MDPE pipes 50 mm							241.00		
Repair UPVC pipes 160 mm El Naga well			Biet Lahia					560.00	
Repair UPVC pipes 160 mm-El Atatra Street								720.00	
Repair UPVC pipes 160 mm-El Atatra Street								870.00	
Repair UPVC pipes 160 mm-Khaled Joma Street								500.00	
Repair UPVC pipes 160 mm-El Esra Street								440.00	
Repair Steel pipe 6"-El Esra street								85.00	
Repair UPVC pipes 110 mm-in front of post office								188.00	
Repair UPVC pipes 110 mm-El Shuma Street								458.00	
Repair UPVC pipes 110 mm-Behind Omer Ben El Khatab Street								368.00	
Repair UPVC pipes 110 mm-Marof Street								548.00	
Repair UPVC pipes 110 mm-Next To Belal mosque								98.00	
Repair Steel pipes 2"-El Salten Street								30.00	
Repair MDPE pipes 2"-El Atatra Street								125.00	
Repair MDPE pipes 2"-El Esra Street								101.00	
Repair MDPE pipes 2"-El Esra Street								53.00	
Repair Steel pipes 2"-Abu Naser Street								61.00	
Repair MDPE pipes 50 mm-El Kraa (5)								29.00	
Repair Steel pipes 1"								120.00	
Repair Steel pipes 2"-Abu Raed El Soultan Street								52.00	
Repair Steel pipes 2"-Souqe El Soultan Street								5.00	
Repair UPVC Pipes 160 mm-El Atatra								2,300.00	
Repair UPVC Pipes 110 mm-El Baher Street								476.00	
Repair UPVC Pipes 110 mm-El Baher Street								240.00	
Repair UPVC Pipes 160 mm-El Shek Zayd								415.00	
Repair UPVC Pipes 160 mm-El Rashed Street								226.00	
Repair UPVC 110 mm -Abu Halem Street				Biet Lahia					4,303.60
Repair MDPE pipe 25 mm -Abu Halem Street									600.00
Repair MDPE pipe 50 mm -Abu Halem Street								54.00	
Repair Steel pipe 12" -El Atatra Street							4,048.00		
Repair UPVC 160 mm -El Atatra			Biet Lahia					406.60	
Repair MDPE Pipes 50 mm -El Atatra Street								16.00	
Repair and connect UPVC pipes 160mm with UPVC 110 mm			Ezbeat Abed Rabo (Jabalia)					399.80	
Repair and connect UPVC pipes 110 mm								120.00	
Repair and connect UPVC pipes 110 mm								464.00	
Repair and connect MDPE pipes 1"								10.00	
Repair MDPE pipes 50 mm								16.00	
Repair and connect UPVC pipes 110 mm								240.40	
Repair and connect UPVC pipes 110 mm								246.40	
Repair and connect UPVC pipes 110 mm								105.00	
Repair and connect UPVC pipes 110 mm								175.00	
Repair and connec MDPE pipes 50 mm								125.00	
Repair and connec MDPE pipes 50 mm								102.50	
Repair MDPE pipes 50 mm								80.00	
Repair and connec MDPE pipes 50 mm								102.50	
Repair and connec MDPE pipes 1"							22.00		
Repair and connec MDPE pipes 50 mm							587.00		
Repair and connect UPVC pipes 110 mm		El Grem (Jabalia)						200.00	
Repair and connect Steel pipes 2"								40.00	
Repair UPVC 280mm -Abed Rabo		Jabalia						1,069.00	
Repair UPVC 110 mm -Abed Rabo								305.00	
Repair UPVC 110 mm -Abed Rabo							305.00		
Repair UPVC 110 mm next to Halema El Sadea school		Jabalia						460.00	
Repair Upvc 110 mm next to Jabalia police station								335.00	
Repair MDPE pipe 50 mm next to Esam Jouda								480.00	
Repair UPVC pipe 225 mm next to El Mokhabrat Street								460.00	
Repair MDPE pipe 50 mm -El Grem Street								3,000.00	
Repair MDPE pipe 50 mm next to Abu Tark Drdona								460.00	
Repair UPVC 110 mm next to Jabalia Municipality Park								385.00	
Repair MDPE pipe 50 mm in Jabalia magistrate court								80.00	
Repair UPVC pipe 110 mm next to El krama Street-Abu Shaneb plantation								610.00	
Repair UPVC pipe 160 mm next to El Khozndar station-El Baher Street								220.00	
Repair MDPE pipe 50 mm next to El Khozndar station-El Baher Street								1,900.00	
Repair UPVC pipe 110 mm								610.00	
Repair UPVC pipe 110 mm -Salah El Deen next to Namer well								385.00	
Repair MDPE pipe 50 mm- El Mahkma Court							160.00		
Repair UPVC 110 mm pipe -El Baher Street-West of El Karam Street							380.00		
Repair MDPE pipe 50 mm-El Krama Street-East side							240.00		

Fast Track in Water Networks Facilities

Item Description	Governorate	Area	Done By				Total Cost (\$)
			Municipality	Handala Co.	Jwade Khuail Co.	El Khaisy Co.	
Repair MDPE pipe 50 mm-El Greem Street							880.00
Repair UPVC pipe 110 mm -Zemo Street-north & south side							1,060.00
Repair UPVC 225 mm-Zemo street							750.00
Repair UPVC 280mm -Abed Rabo							1,569.00
Repair UPVC 280mm -Abed Rabo							1,569.00
Repair UPVC pipe 110mm -Street No. 8							460.00
Repair UPVC 110 mm-El Senaa Street-next to Kuzat Land							340.00
Repair UPVC 110 mm -El Kahera street-next to Mustah house							125.00
Repair UPVC pipe 110 mm -El Senaa Street-next to Azme dgmosh Tower							320.00
Repair UPVC pipes 280 mm -zemo street next to zemp well							1,510.00
Repair UPVC 110 mm -Salah El Deen Street -next to El zatwon police station							170.00
Repair UPVC 110 mm next to Ean Jalout school							170.00
Repair MDPE pipe 50 mm -El Shouda street next to Dr.Awne skik house							264.00
Repair and connect UPVC pipes 280 mm		El Mograqa					1,751.50
Repair Steel pipe 10" next to El Nusirat bridge		El Nusirat	El Nusirat				2,700.00
Repair UPVC pipe 280 mm -El Mougraqa area							1,330.00
Repair Steel pipe 10" -El Atatra Street							4,077.00
Repair UPVC 280mm -El Nusirat Bridge		El Nusirat					796.00
Repair UPVC pipe 160 mm		Absan El Kabera	Absan El Kabera				720.00
Repair UPVC 110 mm -El Shaboura							1,125.00
Repair UPVC 225 next to west merag cross road -150 m east							330.00
Repair UPVC 225 mm		El Fukhari	El Fukhari				160.00
Repair UPVC 160 mm							80.00
Repair Steel pipe 10"							3,000.00
Repair UPVC 315 mm							410.00
Repair UPVC 160 mm Abuo Gazale cross rpad		El Nasser	El Nasser				700.00
Repair UPVC 160 mm-Municipality cross road							180.00
Repair UPVC 160 mm -east of Deputy Mayor house							360.00
Repair UPVC Pipes 110 mm-El Naser		Rafah					480.00
Disconnect steel pipe 8" with 4"							600.00
Disconnect steel pipe 8"		Rafah-El Brazel					150.00
Connect UPVC pipe 110 mm							160.00
Install Upvc 110 mm							135.00
Repair UPVC pipes 225 mm next to Hamdan gallery							1,270.00
End cap for UPVC pipes 4"		Rafah					125.00
End cap for UPVC pipes 6"							180.00
closed for UPVC pipes 110 mm							400.00
closed for Stee pipes 4"		Rafah-El Salm					125.00
Install UPVC 160 mm							480.00
closed for UPVC pipes 110 mm							125.00
Install UPVC pipes 225 mm		Rafah-Tank area					280.00
Total Cost (\$)							71,715.70

Fast Track in Storm Water Facilities

Works Description	Governorate	Area	Facility Name	Status	Total Cost \$ USD
Supply the necessary materials to repair all the damages resulting from the explosion at the area and the work includes the following damages: -Pressure pipeline 12" with a length of 15.2 meters. -Gravity Asbestos pipeline 12", with a length of 24 meters -Manhole 1.5 m diameter, 4.3 meter depth including the base and the 25 ton concrete cover and cast iron cover. -Gravity pipeline 8" diameter 3 meters length -Cleaning and flushing the existing pipelines 100 meter length and manholes.	North	Beit Hanoun	Main Pressure line at Beit Hanoun	Completed	15,000.00
Install and repair the damaged 36" pressure pipeline from pump station 7B to GWWTP, the work includes Excavation, dismantling about 100 meter of the existing pipe and taking out the damaged pipes and reinstall the pipes, Backfilling and compaction and return the surrounding area to its natural ground levels	Gaza	Gaza	GWWTP	Completed	11,000.00
The work includes excavation to the lower levels of the pipelines and the existing manholes and the work includes: Supply necessary materials to repair the existing 355 mm pressure line out of Fawayda pump station				Completed	3,000.00
Supply necessary materials to repair the existing 12" gravity pipe at same location the damaged pipe length is about 39 meters at a depth of 4 meters and clean the existing manholes				Completed	7,000.00
Supply necessary materials to repair the existing 1000 mm concrete stormwater pipeline at same location the damaged pipe length is about 7 meters at a depth of 4 meters and clean the existing stormwater pipeline and the manholes and cast concrete around the pipe joint				Completed	4,000.00
Maintain and repair the existing manholes 3 No at Sheikh Ejleen area, the work includes supplying and installation of the concrete rings and covers and the cast iron 25 ton cover, cleaning all the manholes from the sand				On Going	2,500.00
Total USD\$					42,500.00

Fast Track in Waste Water Networks Facilities

Work Description	Governorate	Area	Area	Total Cost \$ USD
Repair Gravity Sewer line 16 Inches 15 meter length depth of excavation 4 meters the works included supply and install as well as all other requirement to complete the works	North	Bet-Hanon	Near Al-Awda Towers Buildings – Ahmed El-Shokery Street	2,300.00
Repair Gravity Sewer line 16 Inches 05 meter length depth of excavation 4 meters the works included supply and install as well as all other requirement to complete the works			Near Al-Awda Towers Buildings – Ahmed El-Shokery Street	1,000.00
Repair Gravity Sewer line 16 Inches 03 meter length depth of excavation 4 meters the works included supply and install as well as all other requirement to complete the works			Near Al-Awda Towers Buildings – Ahmed El-Shokery Street	500.00
Repair & Clean Manholes Clean Manholes 1.00 meter Diameter = 4 Clean Manholes 1.25 meter Diameter = 1 Clean and re-install Cast iron cover diameter 60cm=3 Re-Install R.C Manhole's slab diameter 1.25 m = 1 Supply and install R.C Manhole's Ring diameter 1.25m and H= 50cm			El-Seeka Street & Road Branches	500.00
Repair & Clean Manholes Repair Gravity Sewer lines UPVC 10 inches (250mm) 20 meter length the works included supply and install as well as all other requirement to complete the works			Zemo Street – Near Beit-Hanon Municipality Building	1,500.00
Repair & Clean Manholes Backfilling the Damaged Place		Bet-Lahia	El-Attatra Area Near sewer PS 4	1,800.00
Repair Gravity Sewer lines – Main line 12 inches 3 meter length the works included supply and install as well as all other requirement to complete the works			Tal El Dahab / El-Ghoboon Area – Ghabyen Street	500.00
Repair Gravity Sewer lines – Main line 10 inches 18 Meters the works included supply and install as well as all other requirement to complete the works			Bet-Lahia Al Salatteen / El-Safa Place (El-Naga stree)	1,500.00
Repair & Clean Manholes Repair Gravity Sewer lines		Jabalia	El-Gearem Area & street	3,500.00
Repair & Clean Manholes			Abed Rabo Area / From Zemo Cross Section to East Road Way Cross Section	12,500.00
Repair Gravity Sewer line 6" Inches (160mm) 15m (supply & install) Supply & install complete Manhole diameter 80 cm included Base, Ring, Slab and complete cast iron cover 25 ton capacity.	Gaza	Gaza City	El-Sheikh Egleen / Near Khalel El Wazer Mosque	2,000.00
Repair water main line 8 inches Repair the damaged Gravity Sewer line 14 inches 39 meters (Supply & Install) Repair Gravity Sewer line 10 Inches 36 meters (install only)			El-Sheikh Redwan / Salah Khalaf Street Near El-Mokhabarat Bulding	6,000.00
Repair Gravity Sewer line 8 Inches 36 meters (install only) – Serve JABALIA				
Supply cement 0.5 ton Supply aggregate limestone For repairs and maintenance			El-Remal / El-Wehda Street	1,000.00
Total USD\$				34,600.00

Fast Track in Civil Facilities

Works Description	Governorate	Area	Facility Name	Status	Total Cost \$ USD
Repair and reconstruction of pumping station اصلاح وترميم مبنى محطة صرف صحي السلطان في منطقة بيت حانون	North	Beit Hanon	El Sultan P S	Ongoing	5,000.00
Repair the barracks at GWWTP اصلاح معرّش في محطة معالجة غزة	Gaza	Gaza - GWWTP	GWWTP	Ongoing	4,000.00
Repair the CMWU's main stores ciling اصلاح وترميم سقف مخازن مصلحة المياه الرئيسية	Gaza	Gaza - CMWU's stores	CMWU's stores	Ongoing	14,000.00
Light projectors for night maintenance	Gaza	Gaza - CMWU		Completed	500.00
Electrical soft starter, electrical panel, voltmeter...etc of spare part	Gaza	Gaza	Gaza	On going	14,000.00
Total USD\$					37,500.00

ANNEX 2

SELECTED DAMAGES

REPAIR IMAGES





