



Gaza Municipal Sector Damage Assessment

DRAFT FOR DISCUSSION

**This report was prepared by the Municipal Development and Lending
Fund (MDLF) and endorsed by the Ministry of Local Government
(MoLG) as Part of the National Plan to Rebuild Gaza
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Acknowledgement

This report was prepared by the Municipal Development and Lending Fund (MDLF) and endorsed by the Ministry of Local Government (MoLG) as part of the national plan to rebuild Gaza. As MDLF, we would like to express our gratitude to our partners who contributed in conducting the assessment and preparing the report. Mainly, we would like to thank all Gaza Municipalities, their technical staff and engineers who provided detailed municipal damage related information and arranged for the field visits. We also appreciate the cooperation from UNDP staff that kindly shared information and took the time to discuss with us our questions and concerns. The World Bank team in West Bank and Gaza assisted in the discussions and preparation of the report. Finally, this report would not have been completed without the courage and dedication of the MDLF staff in Gaza.

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1. Background

The Gaza Strip, with a population of 1.5 million in 366 square kilometers, is the most densely inhabited area on the globe. Its 25 municipalities are the lowest level of governance and are indeed one of the first institutions to which people turn in times of crisis. Many of them have existed since Ottoman times and therefore, their administrative and service delivery functions are well established. They provide some 26 functions as described in the Local Councils Law of 1997. These can be divided into service delivery or implementation functions and regulatory or supervisory responsibilities.

The service delivery functions include the following:

- Building and maintenance of Internal Roads and Street lighting
- Provision of Water
- Provision of Sanitation
- Construction, management and maintenance of Public Markets
- Solid Waste collection and maintenance of public health (e.g., pest control)
- Building and maintaining public parks
- Establishing sports and cultural institutions (stadiums, libraries, kindergarten etc)
- Building and maintaining Ports
- Building and maintaining cemeteries

The regulatory functions include some of the following

- Monitoring businesses (crafts, industry, cafés etc)
- Public health monitoring to prevent epidemics
- Taking precautions against disasters and providing relief for victims of natural disasters
- Demolition of buildings that are thought to collapse

Municipalities finance these tasks by collecting user fees (e.g., water, waste water, solid waste), business licenses, property taxes, rental of municipal markets etc. Over the last five years, municipal revenues have steadily declined and their debts dramatically risen. Prior to December 27, 2008, most municipalities were already reporting delays of 4 to 6 months in payment of staff salaries, non payment of health insurance and pensions.

The blockade on Gaza over the last two years has meant that municipal infrastructure was nearing collapse. Infrastructure and services throughout Gaza's municipalities are in need of a major overhaul as it has suffered from years of under investment and poor maintenance. For instance, water, sanitation networks could not be rehabilitated or maintained for lack of spare parts and materials. Most systems have merely received emergency repairs, not systematic maintenance and strategic investments. The near total lack of construction materials and spare parts, as a result of the blockade has meant that critical repairs, maintenance and construction could not be carried out. Lack of spare parts for solid waste vehicles has forced some municipalities to resort to contracts with donkey cart owners. Furthermore, many of the areas that were hardest hit by the war of December 27 (Rafah, Khan Unis, Bet Lahia, Jabalia) had suffered from continual

incursions over the last several years which led to infrastructural damages, especially in the roads sector.

Indeed, the institution and its services have only survived due to the ingenuity, resourcefulness and creativity of municipal leaders and staff as well as PA and donor support (through Emergency Municipal Services Rehabilitation II and so forth). In short, the war has only further strained the capacity of an already overburdened sector.

2. Damage Assessment Methodology

This report was prepared by the Municipal Development and Lending Fund (MDLF) and endorsed by the Ministry of Local Government (MoLG) as part of the national plan to rebuild Gaza. This assessment is based on data as reported by all 25 municipalities in the Gaza Strip with guidance and site verification by the Municipal Development and Lending Fund. The World Bank team in cooperation with the MDLF carried out site visits to most of the municipalities and conducted interviews with key municipal staff (engineers, directors, mayors and heads of the financial departments). Of the 25 municipalities, 19 had suffered damages but the remainder has not. The damage assessment, therefore, focuses on only these 19. The assessment only covers the assets that are fully owned by municipalities and that affect their service delivery functions per the Local Authorities Law of 1997. (See Annex 1 for a summary of the municipalities along with the estimated damage per sector).

To standardize data collection, the MDLF prepared a survey form which was completed with information from municipalities. (See Annex 2 for a sample form). The assessment covered both capital investments (roads, buildings etc), equipment (vehicles, computers, solid waste containers etc), spare parts (materials used in municipal service) and losses whose financial costs cannot be estimated (administrative records, financial documents etc). The costs for total damage were calculated using an estimate for replacement of equivalent investment today. Unit costs for the roads sector, was calculated at US\$ 30-35 per square meters and for buildings US\$350 were used. However, given the high variability of building standards, the costs of the building at the time of construction (as recorded in the municipal fixed asset registry) was used. Some municipalities, such as Rafah, Dir Al-Belah and Maghazi already had fixed asset valuations applying the valuation methodology approved by the Ministry of Local Government in 2007. These figures were adjusted for current prices. For rehabilitation of infrastructure (especially, water and waste water networks, buildings etc) bills of quantities, either finalized or in draft form were used.

3. Damage Assessment

The damage to municipal assets and institutions resulted from a combination of aerial bombardment, underground sonic bombs, tanks and heavy bulldozers during the course of the 22 day invasion (December 27, 2008 to January 18, 2009). During this period, 4 municipal employees were killed and 7 were injured.

The total loss to the municipal sector is estimated at over US\$ 46 million. About 80 percent of these damages are born by 3 municipalities: Rafah Municipality (US\$ 19.1 million), Gaza City (US\$ 10.6 million) and Beit Lahia (US\$ 7.0 million). Two other municipalities had an estimated damage of over a million dollars: Jabalia (US\$ 3.2 million) and Beit Hanoun (US\$ 1.1 million). These five municipalities are concentrated in 3 Governorates of the Gaza Strip (north, Gaza, and Rafah). The bigger municipalities with a wider range of assets have suffered greater damages in terms of absolute costs, compared to the smaller ones. However, although the smallest municipalities experienced comparatively low losses in absolute figures, they have accumulated larger per capita damages: Wadi Gaza (US\$ 235 per capita) and Al Fukhare (US\$ 132 per capita) both located close to the green-line have some of the highest per capita losses. Rafah (US\$ 269 per capita) and Bet Lahia (US\$ 177 per capita) experienced high losses in both absolute and per capita terms as they endured the thrust of the invasion.

Table 1: Total cost of damages in US dollars

No.	Municipality	Population ¹	Total Damage in US\$	Per capita damage in US\$
1	Beit lahia Municipality	59,540	10,521,404	177
2	Jabalia Municipality	82,877	3,237,300	39
3	Beit Hanoun Municipality	32,187	1,145,495	36
4	Gaza Municipality	409,680	10,641,360	26
5	Wadi Gaza Municipality	3,444	808,300	235
6	Al Moghraga Municipality	5,075	409,930	81
7	Al Zahra Municipality	3,487	157,300	45
8	Khuza'ah Municipality	9,665	535,300	55
9	Bani Suhila Municipality	32,773	713,000	22
10	Rafah Municipality	71,003	19,099,900	269
11	Khan Younis Municipality	130,607	303,000	2
12	Al Qarara Municipality	16,918	127,465	8
13	AL Foukhare Municipality	3,715	489,400	132
14	Al Shuka Municipality	8,094	81,000	10
15	Al Musadar Municipality	1,840	105,000	57
16	Al Maghazi Municipality	24284	295,000	12
17	Abasan Al Kabera Municipality	19037	757768	40
18	Al Naser Municipality	5648	198,000	35
19	Wadi Al Salqa	4660	10,000	2
	Total	924,534	46,010,018	1,199

The section below presents a summary of the damages to the main sectors for which municipalities are responsible: Roads & Street lighting, Solid Waste, Administrative buildings & Equipment, Municipal Cultural Centers, Markets and Public Gardens & Recreational Facilities, Water & Wastewater Sanitation. See Annex 1 for a summary.

3.1 Roads and Transportation

The municipalities are responsible for construction and maintenance of the municipal roads. The road network throughout the Gaza Strip was in poor condition prior to the war of December 27. Of all the municipal assets, the roads sector has experienced the most serious damages. Nearly all municipalities (14 of 19) suffered damages to their roads, ranging in cost from US\$12.2 million to US\$17 thousand. Most of the damages occurred as a result of the land invasion where heavy tanks and military bulldozers plowed through primarily residential streets. The damages destroyed carriage ways, sidewalks, asphalt pavements and interlock tiles. A total of 65 km of municipal roads were damaged, with Rafah municipality (20km) suffering from the highest level of destruction at an estimated cost of US\$12.2 million, followed by Bet Lahia (19 km) at a total cost of US\$5.4 million and Gaza City (5 KM) estimated at US\$ 4.1 million.

One fishing port (Rafah municipality) was completely destroyed, at an estimated cost of US\$ 400 thousand.

3.2 Public Street Lighting

Municipalities are responsible for provision of street lighting, including establishing and maintaining the network.. Ten of the 19 municipalities suffered serious damages to their street lighting networks, including destruction of cables, poles, lanterns, lamps and associated accessories. At US\$1.2 million, Gaza City followed by Rafah at US\$ 1million suffered the biggest losses. The total damage to the street lighting network is estimated at US\$3.2 million.

3.3 Solid Waste Services

One of the most important services performed by municipalities in the Gaza Strip is the collection and disposal of solid waste. Six municipalities suffered losses of solid waste assets at a total estimated cost of US\$ 757,500. Gaza City bore the heaviest cost (US\$585,000), mostly for vehicles (US\$ 500,000); the road to the Gaza City landfill was also damaged. A total of 227 solid waste containers were destroyed at an approximate cost of US\$92,500. One solid waste truck, shared by two municipalities (Wadi Gaza and Al Moghraga), was destroyed (estimated at a total cost of US\$ 130 thousand).

3.4 Administrative Buildings, Stores and Workshops

Fifteen municipal buildings suffered either partial or total damage to their headquarters or administrative buildings, amounting to an estimated cost of US\$ 1,886,225. Beni Souhaila municipal headquarters (US\$ 368,000), Rafah's administrative center on the beach (US\$ 200,000) and Jabalia's old building (US\$ 335,000) were completely leveled. The two top floors of Rafah municipal headquarters were destroyed and the remainder of the building suffered serious damages (US\$ 705,000). The loss of the buildings were accompanied by the loss of essential equipment such as computers, photocopiers, fax machines, vital records and other documentation.

In addition to buildings, 6 municipal warehouses/workshops, along with the scarce materials they stored were destroyed (US\$ 642,000).

The biggest losses under this category were endured by Rafah (US\$ 1,575,00), Gaza City (US\$ 1,269,00) and Bani Souhaila (US\$ 513,000).

3.5 Municipal Cultural Centers and Multipurpose Halls

10 municipal cultural centers suffered varying degrees of damages, ranging from damage to windows and doors to structural damages and loss of equipment. For example, Gaza City's Shawa Center suffered damages to several of its facilities, fences, gardens, windows at an estimated cost of US\$ 226,000 and Salateen Center in Bet Lahia suffered serious structural damage (US\$ 120,000). Others suffered minor damages, such as windows of the Wadi Gaza Cultural Center (US\$ 4,000).

Two municipal libraries (Rafah, at US\$ 80,000 and Gaza City at 18,000) suffered minor damages as did two municipal kindergartens (Moghraga, US\$10, 350 and Gaza City, US\$ 5,000).

The community centers are an important space for public participation and citizen engagement as they are accessible to all social groups – men, women and youth. Many of these centers provided cultural activities and events that benefit women, youth and children who have comparatively limited access to public spaces. With the destruction of municipal buildings, many municipalities have been forced to temporarily occupy these spaces, effectively ending the cultural activities.

3.6 Parks Gardens and Recreational Facilities

Four municipalities suffered considerable damage to their parks, gardens and recreational facilities. The estimated losses are at US\$1.48 million. In total, 12 public gardens and parks were destroyed, most of it completely. The facilities at Gaza City's Barcelona Park were nearly totally destroyed, including the structure, gates, paths, ramps, trees, chairs, cafeteria, fountain, children's playground, public lighting etc. The cost estimate is US\$ 229,000.

Rafah's stadium suffered partial damages estimated to cost US\$ 745,000. All municipalities ranked the restoration of public gardens (8 of the 12 gardens were identified as high priority) as urgent since they are recreational outlets for citizens who have experienced high level of trauma and psychological stress. Mayors stressed the need for recreational facilities for youth and children to enable them to return to normalcy.

3.7 Municipal Markets and Slaughterhouses

Six municipal markets in four municipalities (Bet Lahia, Gaza City, Al Zahra and Rafah) suffered either complete or serious partial damages amounting to a total cost of US\$ 3.1 million. The Mashroa Market in Bet Lahia (US\$ 265,000), the El Shaayb market in Rafah (US\$ 600,000), the Al-Zahra municipal market (US\$ 110,000) and the Al Yarmouk Market in Gaza City (US\$ 1.5 million) were all destroyed, including their steel structures, reinforced concrete. Rafah's commercial center (US\$ 100,000) and central market (US\$ 450,000) suffered partial damages. These markets were an important revenue sources for the municipality since they were rented to private businesses.

Two slaughterhouses also suffered serious damages to their structures and equipment. The damages to Gaza City's slaughter house includes partial damage to the facility, including its structure, fence, generator, fuel tank, animal yard, central refrigerators , electricity network, machines etc and is estimated at US\$ 680,000. The Khan Unis municipal slaughterhouse was completely destroyed and is estimated at US\$ 240,000.

3.8 Water and Waste Water

Water and sanitation service provision is under the mandate of municipalities. However, the newly established Coastal Municipalities Water Utility (owned by all the municipalities and whose mayors are members of the Board) has been maintaining the water and sanitation networks and when conditions permit, will work on expanding and rehabilitating these services. The total damages to the municipal managed water and sanitation sector were estimated at US\$ 5.7 million¹ concentrated mostly in the North and Gaza governorates. The damages include destruction of the water and some sewerage networks, destruction of water wells and water storage facilities. The CMWU working closely with municipalities repaired much of the network during the war and produced a detailed damage assessment of the sector.

4. Damage Impacts

4.1 On Municipal service provision

Since the damages were distributed among many municipal subsectors, it is evident that all affected municipalities will endure direct negative impacts on their service provision on different scales, depending on the damage. The ability of municipalities to regularly provide the services in water and sanitation, electrical street lighting, solid waste collection, and other community services such as parks, stadiums, slaughterhouses, and recreational facilities will be affected. Some municipalities suffered a destruction of their warehouses and storage facilities in which construction materials and spare parts necessary for maintenance were destroyed. Some municipalities have endured damages to their vehicles, maintenance equipments and machinery, and solid waste trucks which negatively impact their ability to deliver services. This effect is exacerbated by the closure of crossings and inability of municipalities to get replacement to their aging machinery and fleets or even maintaining them due to lack of spare parts in the local market.

4.2 Impact on revenues

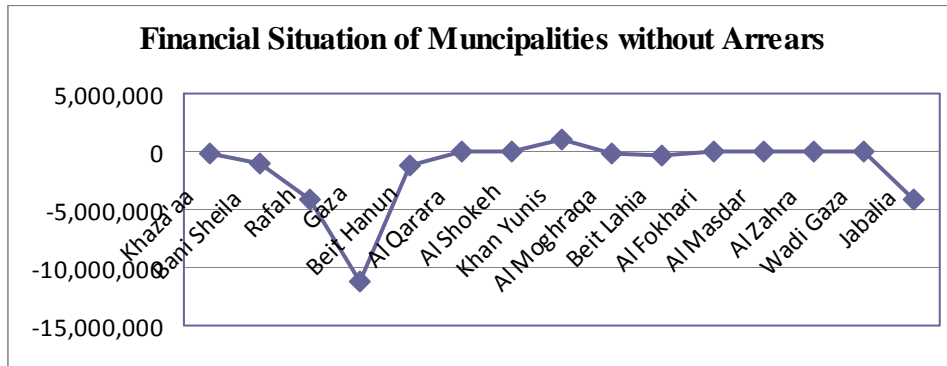
The war has left Gazans more deeply impoverished. The PCBS estimates that 70% of Gazans will now be fully aide dependent even for their most primary needs. This means that citizens are no longer able to afford paying service fees. Since the private sector has collapsed, they are also no longer able to collect licensing fees and other business taxes. The systematic destruction of industries (in Beit Lahia and Jabalia) or agricultural land (e.g., Wadi Gaza, Jabalia, Beit Hanoun, Beit Lahia) means that the tax base has collapsed. Furthermore, the additional sources of revenue, through the municipalities'

¹ The CMWU figures are US\$ 6.5 million as it includes regional water and sanitation investments.

own assets, such as markets and slaughterhouses have also been destroyed. The Beit Lahia market for instance used to generate NIS 86,200 annually; the Gaza slaughter house generated NIS 1,046,730 annually. These have evaporated.

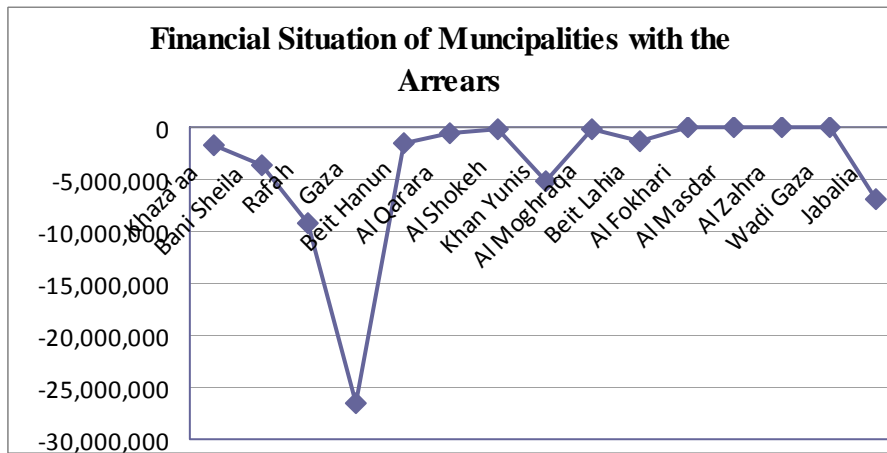
In the last two months following the war, none have been able to collect any fees and the trend is expected to continue for the coming few months. In 2007, most municipalities already suffered from a deep deficit and now at risk of even more perilous financial condition. Chart 1 below illustrates that most municipalities could no longer afford to cover their expenditures.

Chart 1: Financial Situation of Municipalities based on executed budget of 2007 in NIS²



Most municipalities have significant arrears as a result of none payment of water or electricity fees. When these arrears are taken into account, as illustrated in Chart 2 below, their poor financial health becomes apparent.

Chart 2: Financial situation of municipalities based on the executed budget of 2007, in NIS after deducting the arrears.



² Khan Yunis appears to have a slight surplus but this is because the municipality has included guarantees from contractors as a revenue. These funds are not available for the municipality's use and therefore, it is also likely to have a deficit.

All municipalities, especially those who are hardest hit by the war, were in deep financial crisis: Rafah had deficits of over NIS 4 million (9 million NIS after arrears), Gaza City over NIS11 million (26 NIS million after arrears) and Jabalia over NIS 4 million (6 million NIS after arrears).

4.3 Rising Municipal expenditures

Although the revenue flows have stopped, the demand on municipal services has only grown as a result of the war. Citizens continue to demand and expect the services delivered in the past, such as solid waste collection and water provision. They must meet new and urgent demands such as rubble removal to clear the streets, restoring water and wastewater services, collecting solid waste etc. Many municipalities have cleared important streets but due to lack of equipment, spare parts, etc, they have had to rent the appropriate machinery, often at higher prices than prior to the war, thus accumulating debt.

In the last couple of years, municipalities used the limited available revenues, to subsidize some service provision but especially pay some installments on staff salaries. Staff salaries account for approximately 60 to 80 percent of the municipal budget. With the total loss of these revenues, service provision by municipalities will be entirely dependent on aid provided through different donors with no capacity to re-mobilize their sources of revenue to sustain their services in the foreseen future.

4.4 Governance and New Challenges

Municipalities are now facing new challenges that restrict their ability to administer, govern and provide services:

Inability to pay staff salaries: Before the war, most municipalities were only making partial salary payments to their staff drawing on some of the revenues from water services, rental of market spaces and other taxes. Some municipalities have accumulated arrears of 4 to 6 months in staff salaries and none are paying health insurance or their pension contributions. As a result, many municipal employees have become citizen volunteers in carrying out their duties; however, this is unlikely to continue given the overall impoverishment of the population.

Responding to a displaced population: They are currently working with key partners to support households whose houses have been demolished. As they are the lowest level of government, citizens turn to them for assistance. Municipalities are working with other partners in preparing shelter (clearing, leveling land) to set up temporary shelters. While UNRWA is supporting refugees, the none refugee population has not received as comprehensive an assistance as they need and it is not clear which agency/entity is responsible for them.

Need for Land Surveying and Urban Planning: With the destruction of entire neighborhoods, land boundaries have disappeared. This is likely to lead to community level conflict. Municipalities need to carry out land surveys (including through community mechanisms, using creative and speedy approaches to do so). In addition to

land surveying, the reconstruction of neighborhoods will also require urban planning for which municipalities must take a lead but for which they are ill prepared.

Need for Demolitions: Many partially standing structures need to be demolished for the sake of public safety (and it is also part of the mandate of municipalities, according to the Law of Local Authorities). It is not clear if they have the capability to carry out these duties.

Loss of Administrative Records: The 10 municipalities, who had their buildings destroyed, are now missing vital records, including financial and administrative data. With the loss of their premises, some municipalities have lost their administrative capability no furniture, computers and software, records, documents, and databases. These services need to be restored urgently.

5. Recommendations

Immediate: Extension and additional financing of Emergency Municipal Services Rehabilitation Project II that will enable municipalities to restore vital services and enable them to pay for service costs, opening critical roads etc.

Medium-term 6-12 months: reactivate the most basic services (sustain solid waste collection and rehabilitation, road opening, rubble removal, water and waste water rehabilitation (through CMWU), land surveying, street lighting.

Long-term 12-24 months: urban planning, street rehabilitation, revitalization of revenue base (markets, parks,..etc) and rehabilitation of administration buildings.

6. Implementation Arrangements

6.1 Funding sources and available financing

The immediate actions can be undertaken using existing funds at MDLF from EMSRP II (SIDA-World Bank 4.75 MUS\$). MDLF is currently supporting municipalities through the SIDA fund to re-establish the basic services including solid waste collection and disposal, fuel for solid waste, water and waste water services, moreover other municipal operation costs sub-projects are ongoing under the SIDA fund which contributes significantly to help municipalities keep providing the minimum level of basic services. Denmark has expressed interest in the additional financing of the EMSRP II. Considering that the municipal revenues at the short and medium term may not be so efficient due to the deterioration in the economical situations, which needs time to recover. The medium term actions shall include additional funding of about 7.0 MUS\$ to reactivate the most basic services as indicated above. This funds (total of about 12 MUS\$ (40% of the total operation budgets of the municipalities) in the short and medium term shall support the direct service inputs (primarily fuel, spare parts, and electricity bills for street lighting and other municipal services excluding municipal staff salaries). This type of support is necessary in keeping the municipalities functioning and providing their services.

The MDLF have allocated about 7.0 MUS\$ from the KFW under EMSRP II to respond to the municipal needs as were identified before December 2008, to support infrastructure rehabilitation/ upgrading and service delivery equipment. These funds shall be spent during the medium term.

Bearing in mind the municipalities' implementation capacities were not efficient during last year circumstances where many of the needed raw materials are not available in the local market.

During the medium term (6-12 months), additional 13.0 MUS\$ are needed for rehabilitation of damaged infrastructure, provided that the borders are opened and the raw materials are allowed to enter to Gaza.

On the long-term (12-30 months) if the borders are opened and situations are stable and secure, additional amount of 33.0 MUS\$ are needed for reconstruction of the damages that was occurred during the last incursion.

7. Implementation Issues

Without the opening of the borders it would be impossible to restore services and conduct the necessary rehabilitation of the long-term interventions. However, the short-term and medium-term interventions can rely on materials, spare parts, and machinery available in the local market.

Annex 1: Total Municipal Damages by Sector

S/N	Municipality	Sector									Total Damage per Municipality
		Infrastructure				Environment	Governance				
		Roads	Public Lighting	Water	Waste Water	Solid Waste	Municipality - Building	Municipal Centers	Municipal Markets	Parks, Gardens and Recreational Facilities	
1	Beit lahia	5434700	200000	516000	306800	15000	60000	140000	265000	78000	7,015,500
2	Jabalia	1435500	87500	964300	400000	15000	335000	0	0	0	3,237,300
3	Beit Hanoun	713300	0	143750	164500	0	73945	0	0	50000	1,145,495
4	Gaza	4146760	1200000	748000	553200	585000	589000	271000	2235000	313400	10,641,360
5	Wadi Gaza	328000	285000	59300	0	130000	2000	4000	0	0	808,300
6	Al Moghraga	65000	42000	57800	0	2500	112280	10350	0	0	289,930
7	Al Zahra	17300	0	0	0	0	30000	0	110000	0	157,300
8	Khuza'ah	454300	75000	0	0	0	6000	0	0	0	535,300
9	Bani Suhila	200000	0	0	0	0	513000	0	0	0	713,000
10	Rafah	12249900	1000000	1000000	1000000	0	1575000	80000	1150000	1045000	19,099,900
11	Khan Younis	0	0	0	0	0	10000	53000	240000	0	303,000
12	Al Qarara	91790	20800	14875	0	0	0	0	0	0	127,465
13	AL Foukhare	184400	305000	0	0	0	0	0	0	0	489,400
14	Al Shuka	81000	0	0	0	0	0	0	0	0	81,000
15	Al Musadar	33500	26900	0	0	10000	0	34600	0	0	105,000
16	Al Maghaze	0	0	15000	15000	0	265000	0	0	0	295,000
17	Abasan Al Kabera	757768	0	0	0	0	0	0	0	0	757,768
18	AL Naser	168000		30000	0	0	0	0	0	0	198,000
19	Wadi Al Salqa	0	0	10000	0	0	0	0	0	0	10,000
	Total Damage per Sub Sector	26,361,218	3,242,200	3,559,025	2,439,500	757,500	3,571,225	592,950	4,000,000	1,486,400	46,010,018

Annex 2
Detailed list of Damages by Sector Per Municipality

Roads

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H.M.L)
				PD	TD	PD	TD	Damage	Infrastructure	Rubble		
	Beit Lahia Municipality											
1	Main entrance of beit lahia - Eastern Part	partial damage of part of street including the carriage way of the street and sidewalks, the total damaged length is 1200 with average width of 34 m		28,560		571,200	0	571,200	0	0	571,200	1
2	Main entrance of beit lahia - Middle Part	Partial damage of part of street including the carriage way of the street and sidewalks, the total damage length is 1000 with average width of 17 m	100%	17,000		340,000		340,000	5,000	0	345,000	1
3	Main entrance of beit lahia - City center Part	Partial damage of street including the carriage way of the street and sidewalks, the total damage length is 600m with average width of 20 m	100%	12,000		144,000	0	144,000	0	0	144,000	1
4	Aslan-Tal Al Dahab Entrance	complete damage of part of a paved street and partial damage of another part including the carriage way of the street and sidewalks, the total damage length is 600m with average width of 9 m and other 600 m of average width of 20m	85%	5,400	12,000	108,000	300,000	408,000	0	5,000	413,000	1
5	Internal and main Roads in Western Part of Beit Lahia (Al Atatra-Al Bahar road.)	Total damage of a paved street including the carriage way of the street the total damage length is 2000m and the average width is 8m	100%		16,000		480,000	480,000	0	25,000	505,000	1
6	Internal and main Roads in Western Part of Beit Lahia (Al Naser Road)	Total damage of a paved street including the carriage way of the street the total damage length is 1600m and the average width is 8m	100%		12,800		384,000	384,000	60,000	20,000	464,000	1
7	Internal and main Roads in Western Part of Beit Lahia (Al Rashed Road)	Total damage of a paved street including the carriage way of the street the total damage length is 2500m and the average width is 8m	100%		12,000		360,000	360,000	100,000	5,000	465,000	1
8	Internal and main Roads in Western Part of Beit Lahia (Al Towam Al Sodanea road)	Total damage of a paved street including the carriage way of the street the total damage length is 1600m and the average width is 35m	100%		15,200		532,000	532,000	300,000	0	832,000	2
9	Internal and main Roads in Western Part of Beit Lahia (Al Seafa Road)	Total damage of a paved street including the carriage way of the street the total damage length is 1200m and the average width is 8m	100%		9,600		288,000	288,000	48,000	2,000	338,000	1
10	Internal and main Roads in Western Part of Beit Lahia (Al Salateen Road)	Partial damage of a paved street including the carriage way of the street and sidewalks the total damage length is variable and the total damaged area is 6000 squire meter	25%		6,000	180,000	0	180,000	10,000	5,000	195,000	1
11	Al Baraka Street	Partial damage of a paved street including the carriage way of the street and sidewalks the total damage length is 250m and average width is 10m	25%		2,500	75,000	0	75,000	15,000	0	90,000	1
12	Al Souq Street at Al Salam area	Partial damage of a paved street including the carriage way of the street and sidewalks the total damage length is 300m and average width is 10m	25%		3,000	37,500	0	37,500	0	2,000	39,500	1
13	Al Magbara road Southern entrance of Beit Lahia road	Partial damage of a paved street including the carriage way of the street and sidewalks the total damage length is 500m and average width is 16m	100%		4,800	0	168,000	168,000	10,000	0	178,000	1

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
				PD	TD	PD	TD	Damage	Infrastructure	Rubble		
14	Al Shesk Zayed City streets	Partial damage of a paved street including the carriage way of the street and sidewalks the total damage length is 1000m and average width is 9m	60%	1,000	4,000	35,000	60,000	95,000	10,000	0	105,000	2
15	Unpaved roads leveling and rehabilitation	damaged of unpaved roads in different areas in the city	100%	75,000		750,000		750,000	0	0	750,000	2
											5,434,700	
Jabalia Municipality												
1	Al Quds street (Abed rabo Area)	The street was paved with asphalt and the sidewalks was paved with interlock tiles the damage in the street considered as total damage in part of the street with dimension= 1200m length & 10 m width)	100%		12,000	0	420,000	420,000	0	10,000	430,000	1
2	Al Qurm street	The street was paved with asphalt and the sidewalks was paved with interlock tiles the damage in the street considered as total damage in part of the street with dimension= 1300m length & 15 m width)	100%	0	19,500	0	682,500	682,500	0	20,000	702,500	1
3	Al Baher street	The street was paved with asphalt without sidewalks the damage in the street considered as parshal damage in part of the street with dimension= 1200m length & 3 m width)	50%	3,600	0	108,000	0	108,000	0	10,000	118,000	1
4	Al karam street	The street was paved with asphalt without sidewalks the damage in the street considered as parshal damage in part of the street with dimension= 2000m length & 3 m width)	50%	6,000	0	180,000	0	180,000	0	5,000	185,000	
											1,435,500	
Beit Hanoun Municipality												
1	Internal and main paved roads	Complete damage of parts and partial damage of other parts of different paved roads of the city in including the infrastructure.		14,350	10,000	258,300	350,000	608,300			608,300	
2	Internal and main unpaved roads	Complete damage of parts and partial damage of other parts of different unpaved roads of the city in including the infrastructure.			30,000		105,000	105,000			105,000	
											713,300	
Um Al Naser Municipality												
Gaza Municipality												
1	Street No. 10	Total damage to part of paved street No. 10 from Salah Dein Street to the Municipal Slaughterhouse with a total length of 1,200 m and average width of 30 m, including the carriage way of the street, curbstone, sidewalks, and infrastructure)	100%	36,000		0	1,260,000	1,260,000	252,000	12,600	1,524,600	H
2	Al-Karama Street	Total damage to part of Al-Karama Street from Al-Reyad Street to Al-Qarm area with a total length of 1,000 m and average width of 40 m and partial damage of the southern part with a total length of 100 m and average width of 12 m, including the carriage way , curbstone, traffic signs and infrastructure)	100%	40,000		240,000	1,200,000	1,440,000	243,360	14,350	1,697,710	H

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
				PD	TD	PD	TD	Damage	Infrastructure	Rubble		
3	Aown Shawa Street	Total damage to part of Aown Shawa Street from Al-Aqsa Street to the east with total length of 300 m and average width of 30 m, including the carriage way of the street, curbstone, sidewalks, and infrastructure)	5%	9,000		0	315,000	315,000	63,000	3,150	381,150	H
4	Al-Aqsa Street	Partial damage to Al-Aqsa Street with a total length of 400 m and average width of 4 m, including the carriage way of the street, sidewalks, curbstone, shelling holes in asphalt)	10%	1,600		56,000	0	56,000	11,200	1,000	68,200	H
5	Streets Surrounding Barcelona Park	Partial damage to the streets with a total length of 300 m and average width of 6 m, including the carriage way of the street, sidewalks, curbstone,	8%	1,800		63,000	0	63,000	18,900	2,000	83,900	H
6	Streets in Nasser Neighbourhood	Partial damage to the streets with a total length of 200 m and average width of 6 m, including the carriage way of the street, sidewalks, curbstone, shelling holes in asphalt.	7%	1,200		42,000	0	42,000	8,400	1,000	51,400	H
7	Salah Dein Street	Partial damage to the street with a total length of 300 m and average width of 6 m, including the carriage way of the street, sidewalks, curbstone, shelling holes in asphalt)	5%	1,800		63,000	0	63,000	6,300	1,500	70,800	H
8	Al-Rasheed Street	Partial damage to the street, including the carriage way of the street, sidewalks, curbstone, shelling holes in asphalt.	7%	2,400		84,000	0	84,000	8,400	1,000	93,400	H
9	Al-Majdal Street	Partial damage to the street with a total length of 40 m and average width of 10 m, (shelling holes in asphalt)	3%	400		14,000	0	14,000	1,400	200	15,600	H
10	Unpaved Roads in Zaitoun Neighbourhood	Streets need leveling and kurkar	25%	20,000		60,000	0	60,000	0	0	60,000	M
11	Traffic Signs and Signals in different streets	Damage to traffic signs and signals	100%	5			100,000	100,000	0	0	100,000	H
											4,146,760	
	Wadi Gaza Municipality											
1	Main Entrance of Wadi Gaza	Complete damage (100m length and 6m width) of parts and partial damage of other parts (300m length and 2m width) of the street including concrete curbstone		600	600	12,000	21,000	33,000	0	2,000	35,000	1
2	Kesaria Street	Complete damage (400m length and 6m width) of parts and partial damage of other parts (200m length and 3m width) of the street including concrete curbstone		600	2,400	12,000	84,000	96,000	0	2,000	98,000	1
3	Solid Waste Land Fill road	Complete damage (400m length and 6m width) of parts of a paved road including concrete curbstone and partial damage of infrastructure		0	2,400	0	84,000	84,000	10,000	2,000	96,000	1
3	Al Madrassa Road	Complete damage (100m length and 6m width) of parts of a paved road and partial damage (400m length and 2m width) of the road including concrete curbstone and partial damage of infrastructure		800	600	20,000	21,000	41,000	5,000	5,000	51,000	1
4	Different Interior roads	Partial damage of parts of paved interior roads including concrete curbstone and partial damage of infrastructure		1,000	0	25,000	0	25,000	20,000	3,000	48,000	1
											328,000	
	Al Moghraga Municipality											
1	Road No. 2	Complete damage of part of paved road with total damaged area of 350 square meters		0	350	0	10,500	10,500	2,000	3,000	15,500	1
2	Road No. 9	Complete damage of part of paved road with total damaged area of 400 square meters		0	400	0	12,000	12,000	2,000	3,000	17,000	1
3	Road No. 9 unpaved	Complete damage of part of unpaved road with total damaged area of 350 square meters		0	3,000	0	15,000	15,000	2,000	3,000	20,000	1
	Road No. 14	Complete damage of part of paved road with total damaged area of 250 square meters		0	250	0	7,500	7,500	2,000	3,000	12,500	1
											65,000	

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
				PD	TD	PD	TD	Damage	Infrastructure	Rubble		
Al Zahra Municipality												
	Internal Roads	partial Damage of paved internal roads		120	0	3,000	0	3,000	3,000	300	6,300	1
2	Main Entrance of Al Zahra City road	Complete damage of part of the road			500		10,000	10,000	1,000	0	11,000	1
											17,300	
Khuza'ah Municipality												
1	Al Basateen Street	Complete damage of parts of a paved road with sidewalks.		0	1,200	0	42,000	42,000	3,000	300	45,300	1
2	Al Madaras Street	Complete damage of parts of a paved road with sidewalks.		0	1,150	0	40,250	40,250	1,000	2,000	43,250	1
3	Khuza'ah Main Entrance	Complete damage of parts of a paved road with sidewalks.		0	650	0	22,750	22,750	1,000	1,000	24,750	1
4	Ezata area internal roads	Complete damage of parts of a paved roads		0	2,000	0	60,000	60,000	35,000	20,000	115,000	
5	Unpaved internal roads	complete damage of unpaved roads (leveld with Kurkar)		17,600	0	176,000	0	176,000	5,000	45,000	226,000	1
											454,300	
Al Qarara Municipality												
1	Al Ma'aree Kesofem Road	Complete damage of part of the paved road including infrastructure		0	1,500	0	40,500	40,500	12,000	1,000	53,500	1
2	Abu Hadaf Al Ma'aree road	Complete damage of part of the paved road including infrastructure			1,000	0	27,000	27,000	10,290	1,000	38,290	1
											91,790	
Bani Suhila Municipality												
1	Internal Road	total damage of internal road		0	6,500	0	195,000	195,000	3,000	2,000	200,000	1
											200,000	
AL Foukhare Municipality												
1	Road No. 16	complete damae of unpaved road leveld with Basscorse Layer			9,600		76,800	76,800	10,000	7,000	93,800	1
2	Al Rawda Road	complete damae of unpaved road leveld with Basscorse Layer			10,800	0	75,600	75,600	15,000	0	90,600	1
											184,400	
Rafah Municipality												
1	internal roads in west rafah	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels. Including the infrastructure	100%	0	36,666	0	1,099,980	1,099,980			1,099,980	1
2	internal roads in yebna and shaat camp	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels, including the infrastructure	100%	0	40,000	0	1,200,000	1,200,000			1,200,000	1
3	salah el-deen gate roads	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels. Including the infrastructure	100%	0	41,666	0	1,249,980	1,249,980			1,249,980	1
4	municipal park area in el-shabora camp	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels. Including the infrastructure	100%	0	15,000	0	450,000	450,000			450,000	1
5	roads in el-barazeel area	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels including the infrastructure	100%	0	50,000	0	1,500,000	1,500,000			1,500,000	1
6	hay el-salam roads	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels. Including the infrastructure	100%	0	40,000	0	1,200,000	1,200,000			1,200,000	1
7	keshta area roads	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels. Including the infrastructure	100%	0	53,333	0	1,599,990	1,599,990			1,599,990	1
8	block j roads	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels. Including the infrastructure	100%	0	50,000	0	1,500,000	1,500,000			1,500,000	1

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
				PD	TD	PD	TD	Damage	Infrastructure	Rubble		
9	hay el-swedy camp roads	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels. Including the infrastructure	100%	0	20,000	0	600,000	600,000			600,000	1
10	centarl market and city center roads	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels. Including the infrastructure	100%	0	41,666	0	1,249,980	1,249,980			1,249,980	1
11	hay el-jenena roads	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels.	100%	0	3,333	0	99,990	99,990			99,990	1
12	internal roads in tal-elsultan	Complete damage of the roads in the area which include the carriage way, side walks, sub base, the asphalt pavement and the interlock tiels. Including the infrastructure	100%	0	16,666	0	499,980	499,980			499,980	1
											12,249,900	
Al Shuka Municipality												
1	internal roads	complete damage of parts of the roads in AL Shouka	100%	0	2,300	0	69,000	69,000	10,000	2,000	81,000	1
											81,000	
Al Musadar Municipality												
1	internal roads	complete damage of parts of the roads network	100%	0	900	0	31,500	31,500		2,000	33,500	1
											33,500	
Al Nusar Municipality												
1	damage of internal roads	partial damage of internal roads			8,000		168,000	168,000			168,000	1
											168,000	
Abasan Al Kabera Municipality												
1	Abasan Kabera-Khuza'ah linking road	Partial damage of 1650 m length road			7,600		197,600	0	197,600	0	197,600	
2	Sanati Ring Road	Partial damage of 700 m length ring roac			5,440		180,168		180,168		180,168	
3	Abu Amer road	Partial damage of 600 m length roac			4,800		170,000		170,000		170,000	
4	Al Mustashar road	Partial damage of 400 m length road			1,000		30,000		30,000		30,000	
5	Abu Jaber and Defa'a Madne road	Partial damage of 650 m length road			7,200		171,000		171,000	9,000	180,000	
											757,768	
Total											26,361,218	

Electricity - Streets Lighting

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
Beit Labia Municipality												
1	Main Entrance of Beit labia Road	Partial Damage of the lighting network making the lighting in the street not working, including cables, poles, panels, lanterns and lamps	40%	2,000	0	200,000	0	200,000	0	0	200,000	1
											200,000	
Jabalia Municipality												
1	alquds street	le street lighting network was partially destroyed including the related items (poles -lanents - cables --ect)	30%	750	0	37,500	0	37,500	0	0	37,500	1
2	Al qurm street	le street lighting network was partially destroyed including the related items (poles -lanents - cables --ect)	30%	1,000	0	50,000	0	50,000	0	0	50,000	1
											87,500	
Beit Hanoun Municipality												
NA												
Um Al Naser Municipality												
Gaza Municipality												
1	Tal Hawa Neighbourhood	Total damage of part of the lighting network, including 40 galvanized steel poles and all accessories, 100 wooden poles, 10 manholes, 370 lanterns, 10 control units, 5 transformers, and 5,000 lm of cables	100%	1		0	290,000	290,000	0	2,000	292,000	H
2	Zaitoun Neighbourhood	Total damage of part of the lighting network, including 33 galvanized steel poles and all its accessories, 70 wooden poles, 10 manholes, 320 lanterns, 10 control units, 5 transformers, and 4,000 lm of cables	100%	1		0	260,000	260,000	0	2,000	262,000	H
3	Al-Toffah Neighbourhood	Total damage of part of the lighting network, including 22 galvanized steel poles and all its accessories, 55 wooden poles, 8 manholes, 210 lanterns, 3 control units, 5 transformers, and 3,000 lm of cables	100%	1		0	220,000	220,000	0	2,000	222,000	H
4	Al-Shejaiyya Neighbourhood	Total damage of part of the lighting network, including 49 galvanized steel poles and all its accessories, 60 wooden poles, 5 manholes, 200 lanterns, 3 control units, 3 transformers, and 2,500 lm of cables	100%	1		0	170,000	170,000	0	2,000	172,000	H
5	Al-Remal North and South and Daraj Neighbourhoods	Total damage of part of the lighting network, including 66 galvanized steel poles and all its accessories, 50 wooden poles, 8 manholes, 230 lanterns, 6 control units, 4 transformers, and 3,000 lm of cables	100%	1		0	250,000	250,000	0	2,000	252,000	H
											1,200,000	
Wadi Gaza Municipality												
1	Solid Waste Land Fill and Al Karama roads	Complete and partial damage of the streets lighting network including cables, lanterns, lamps, cables and accessories		1,500	2,500	30,000	150,000	180,000	0	10,000	190,000	1
2	Different roads (Main road, Al Madrasa road and Kesarea road)	Partial damage of the lighting net work in these streets		3,000	0	90,000	0	90,000	0	5,000	95,000	1
											285,000	
Al Moghraga Municipality												
1	Different streets	Partial Damage of the streets lighting network		1,400	0	42,000	0	42,000	0	0	42,000	
											42,000	

	Municipal Facility Name	Damage Description	% Damage of	Quantity		Cost US \$		Cost US \$		Total US \$	Priority (H,M,L)	
	Al Zahra Municipality											
	NA											
	Khuza'ah Municipality											
1	Al Madars Road	Complete damage of parts of the streets lighting network including poles, lanterns, lamps, cables and accessories.		0	2,000	0	50,000	50,000	0	0	50,000	1
2	Ezata area road	Complete damage of parts of the streets lighting network including poles, lanterns, lamps, cables and accessories.		0	1,000	0	25,000	25,000	0	0	25,000	1
										75,000		
	Al Qarara Municipality											
1	different roads in al qarara	partial damage of the streets lighting network in the city		1,600	0	20,800	0	20,800	0	0	20,800	1
										20,800		
	AL Foukhare Municipality											
1	Different roads in Al Qarara	Complete damage in parts of the net and partial in other parts		3,000	4,200	75,000	210,000	285,000	0	20,000	305,000	1
										305,000		
	Rafah Municipality											
1	street lighting electricity networks	street lighting network had been partially damaged .the damages includes the following items: electrical steel poles 12m high, street lighting unit steel arms,cables ,street lighting control boards and all accossiated accessories and fittings	30%	40,000	0	480,000	0	480,000	0	20,000	500,000	1
2	electrical low tension network for the streets lighting network	the low tension electrical network is partially damaged .the damagees includes the following items:electrical steel poles, woden poles,cables, transformers,LV isolating switch, breakers and all accossiated accessories and fittings	20%	40,000	0	500,000	0	500,000	0	0	500,000	2
										1,000,000		
	Al Musadar Municipality											
1	streets lighting net	complete damage of part of the network	100%	0	700	0	25,900	25,900		1,000	26,900	1
										26,900		
Total										3,242,200		

Water

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
	Water Pipes											
	Beit Lahia Municipality											
1	Al Atatra and Salateen neighborhoods.	Total damage of part of the water system/network in the neighborhoods. With total length of fully damaged parts 6000 meter length with different diameters	100%	6,000	0	0	300,000	300,000	0	0	300,000	1
											300,000	
	Jabalia Municipality											
1	alquds street (abed area)	the water pips network were partially damaged during the war including the main and banched lines with various dia. (50-110-160 mm)	60%	3,500	0	105,000	0	105,000	0	5,000	110,000	1
2	Al Qurm street	the water pips network were partially damaged during the war including the main and banched lines with various dia. (50-110-160 mm)	60%	4,500	0	135,000	0	135,000	0	5,000	140,000	1
3	Anan area	the water pips network were partially damaged during the war including the main	40%	2,000	0	60,000	0	60,000	0	2,000	62,000	1
											312,000	
	Beit Hanoun Municipality											
	Damaged Water Net	Complete and partial damage of the net work in different streets, including pipes, fittings and house connections		350	500	8,750	25,000	33,750	0	0	33,750	1
											33,750	
	Um Al Naser Municipality											
	Gaza Municipality											
1	Al-Karama Street and Zemmo Area	Total damage of parts of the line Ø 10" in different sections with a length of around 1,000 lm by shelling and bulldozers	100%	1,000		0	40,000	40,000	0	0	40,000	H
2	Tal Hawa Neighbourhood	Total damage to part of the water network, including pipes, manholes, and fittings with a length of around 1,200 lm	100%	1,200		0	30,000	30,000	0	0	30,000	H
3	Different Areas at the Eastern South of the City	Total damage to parts of the water network, including pipes, manholes and fittings with total length of 1,200 lm	100%	1,200		0	30,000	30,000	0	0	30,000	H
											100,000	
	Wadi Gaza Municipality											
	Al Moghraga Municipality											
1	Water Pipes in different areas	complete damage of water pipes with diff sizes		0	1,300		39,000	39,000	0	0	39,000	1
											39,000	
	Al Zahra Municipality											
	Al Qarara Municipality											
1	Abu Daher and Abu Sabet area	Partial damage of the water network including accessories		850	0	14,875	0	14,875	0	0	14,875	1
											14,875	
	Rafah Municipality											
1	water network in rafah	The damages in drinking water network were in different pipe size (50mm-200mm) with total length 10000 lm approximately water manhole and accessories too were damaged in the same area of attack especially in border neighborhood areas		10,000	0	1,000,000	0	1,000,000			1,000,000	2
											1,000,000	
	Al Maghazi Municipality											
1	water pipes and fittings	Complete damage of stored pipes and fittings					15,000	15,000	0	0	15,000	
											15,000	
	Al Nusar Municipality											
1	damage of water lines	complete damage of water pipes (160mm)			1,000		20,000	20,000	0	0	20,000	1
2	damage of water lines	complete damage of water pipes (110mm)			1,000		10,000	10,000	0	0	10,000	1
											30,000	
Total											1,844,625	

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
Gaza Municipality												
1	Safa Water Wells (1, 2, 3, 4)	Partial damage to the wells facilities by shelling, including total damage of the main generator and pullets into the new alternative generator	25%	4		120,000	0	120,000	0	1,000	121,000	H
2	Safa Water Well 5	Partial damage to the wells facilities by shelling, including pullets into building, the equipment and sand filtration	10%	1		10,000	0	10,000	0	200	10,200	H
3	Sheikh Ejleen (1) Water Well	Partial damage to the water well, including total damage of the building and the fuel tank	20%	1		15,000	0	15,000	0	600	15,600	H
4	Sheikh Ejleen (2) Water Well	Partial damage to the water well, including partial damage to the building and the generator	20%	1		20,000	0	20,000	0	200	20,200	H
5	Sheikh Ejleen (3) Water Well	Total damage to the water well, including the fence, the building structure, generator, fuel tank, and chlorine tank and device.	100%	1		0	70,000	70,000	0	600	70,600	H
6	Sheikh Ejleen (4) Water Well	Total damage to the water well, including the fence, the building structure, generator, fuel tank, and chlorine tank and set.	100%	1		0	80,000	80,000	0	800	80,800	H
7	Sheikh Ejleen (5) Water Well	Partial damage to the water well, including partial serious damage to the building and total damage to the generator and fuel tank	30%	1		30,000	0	30,000	0	200	30,200	H
8	Sheikh Ejleen (6) Water Well	Partial damage to the water well, including partial damage to the building and total damage to the generator and the sand filtration	15%	1		10,000	0	10,000	0	200	10,200	H
9	Sheikh Ejleen (7) Water Well	Partial damage to the water well, including partial damage to the building and serious damage to the sand filtration	10%	1		12,000	0	12,000	0	200	12,200	H
10	Sheikh Radwan (1, A 1) Water Wells	Partial damage to the water well, including the fence, generator, and the sand filtration	40%	2		80,000	0	80,000	0	800	80,800	H
11	Sheikh Radwan (15) Water Well	Partial damage to the water well, including partial damage to the generator	10%	1		7,000	0	7,000	0	0	7,000	H
12	Sheikh Radwan (16) Water Well	Partial damage to the water well, including partial damage to the fence and the generator	15%	1		15,000	0	15,000	0	200	15,200	H
13	Sheikh Radwan (B 8) Water Well	Partial damage to the water well, including partial damage to the building and the equipment	10%	1		6,000	0	6,000	0	200	6,200	H
14	Zaitoun (1) Water Well	Partial damage to the water well, including partial damage to the facility and the electrical panel	20%	1		15,000	0	15,000	0	200	15,200	H
15	Zaitoun (1) Water Well	Partial damage to the water well, including partial damage to the building and the equipment and the water pump	25%	1		20,000	0	20,000	0	200	20,200	H
16	Shejaya (5) Water Well	Partial damage to the water well, including partial serious damage to the building, equipment and fuel tank	40%	1		25,000	0	25,000	0	400	25,400	H
											541,000	
Wadi Municipality Gaza												
NA												
Al Moghraga Municipality												
1	Al Mohraga water well	Partial damage of the water well which feeds all the residents including structural damages, electrometrical damages		1	0	12,500	0	12,500	0	0	12,500	I
											12,500	
Al Zahra Municipality												
NA												
Water Sector - Water Vehicles												
Gaza Municipality												
1	Municipal Service Vehicles	Partial damage to municipal service vehicles including wheel loaders, sweepers, compactor trucks, skip lift truck, bulldozers, pickup double cabin	50%	61		65,000	0	65,000	0	0	65,000	H
											65,000	
Wadi Municipality Gaza												
1	Municipality Vehicle	Complete damage of a Toyota pickup vehicle	100%	0	1	0	40,000	40,000	0	0	40,000	I
2	Damage to equipments	complete damage of 5 KVA generator and two water pumps	100%	0	1		10,000	10,000	0	0	10,000	I
											50,000	
Total											1,221,800	
Total											3,559,025	

Wastewater

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$		Total US \$	Priority (H,M,L)	
	Sewage Collection Network											
	Beit Lahia Municipality											
1	Al Atatra and Al Salateen neighborhoods Sewage Network	Complete damage of Part of the Network and partial damage in other parts (it needs secondary maintenance of the system)in the neighborhood including manholes and house connections	100%	1,500	600	15,000	72,000	87,000	0	0	87,000	1
2	Al Seaffa – Al Adham neighborhoods Sewage Network	Complete damage of Part of the Network in the neighborhood including manholes and house connections	100%	0	1,500	0	180,000	180,000	0	0	180,000	1
										267,000		
	Jabalia Municipality											
1	alquds street (abed rbo area)	the sewage pips network were partially damaged during the war including the main and banched lines with various dia. (250-200-160 mm)	60%	4,000	0	200,000	0	200,000	0	0	200,000	1
2	Al Qurm street	the sewage pips network were partially damaged during the war including the main and banched lines with various dia. (250-200-160 mm)	60%	3,000	0	150,000	0	150,000	0	0	150,000	1
3	Anan area	the sewage pips network were partially damaged during the war including the main and banched lines with various dia. (250-200-160 mm)	60%	1,000	0	50,000	0	50,000	0	0	50,000	1
										400,000		
	Beit Hanoun Municipality											
1	Damaged waste water and storm water net	complete and partial damage of parts of the sewage and strom water network in different streets		300	900	10,500	99,000	109,500	0	0	109,500	1
										109,500		
	Um Al Naser Municipality											
	Gaza Municipality											
1	Pressure line from Pumping Station (7 B) to the Treatment Plant	Total damage to part of the pressure line of Ø 900 mm with length of 50 lm	100%	50		0	15,000	15,000	0	0	15,000	H
2	Pressure line from Pumping Station (5) to the Treatment Plant	Total damage to part of the pressure line of Ø 14" with length of 20 lm	100%	30		0	6,000	6,000	0	0	6,000	H
3	Pressure lines leading to the Treatment Plant	Partial damage at parts of the pressure lines to the treatment plant with different diameters	5%	200		40,000	0	40,000	0	0	40,000	H
										61,000		
	Wadi Gaza Municipality											
	NA											
	Al Moghraga Municipality											
	NA											
	Al Zahra Municipality											
	NA											
	Rafah Municipality											
1	waste water network in rafah	The damages were consenctrated in the border areas in different diameters, varies among (100-300 mm) PVC pipes a lot of concrete manholes were damaged too, the manhole diameter varies from 80-125 size manholes belongs to the households are highly damaged too.		10,000	0	1,000,000	0	1,000,000			1,000,000	2
										1,000,000		
	Al Maghazi Municipality											
1	waste water pipes and fittings	Complete damage of stored pipes and fittings					15,000	15,000	0	0	15,000	
										15,000		
Total										1,852,500		

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
1	Municipal Service Vehicles	Partial damage to municipal service vehicles including wheel loaders, sweepers, compactor trucks, skip lift truck, bulldozers, pickup double cabin	50%	61		65,000	0	65,000	0	0	65,000	H
											65,000	
	Wadi Gaza Municipality											
	NA											
Total											448,000	
	Sewage/Storm Water Treatment Plants											
	Beit Lahia Municipality											
	Jabalia Municipality											
	NA											
	Beit Hanoun Municipality											
	NA											
	Um Al Naser Municipality											
	Gaza Municipality											
1	Sewage Treatment Plant	Partial damage to the lagoon No. 3 by shelling (20 m width and 7 m height), and partial damage to the laboratory and the administrative buildings including offices, doors, windows, furniture, computers, and equipment, partial damage to the shade, in additional to shelling of pumps (1) and (4)	7%	1		130,000	0	130,000	6,500	2,500	139,000	H
											139,000	
	Wadi Gaza Municipality											
	NA											
	Al Moghraga Municipality											
	NA											
	Al Zahra Municipality											
	NA											
Total											139,000	
Total											2,439,500	

Solid Waste

Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$		Total US \$	Priority (H,M,L)		
Solid Waste Dumping Site												
Gaza Municipality												
1	Landfill and Weight Scale	Partial damage to the paths to the landfill in addition to partial damage to the weight scale	15%	1		15,000	0	15,000	0	0	15,000	H
Total										15,000		
Solid Waste Containers												
Beit Lahia Municipality												
1	Al Atatra and Al Salateen area	Minor Damage to this sector, including only the destruction of some 1 cubic Containers		30		15,000		15,000	0	0	15,000	I
Jabalia Municipality										15,000		
1	Solid Waste Containers	More than 50 solid waste container were destroyed during the invasion as the following numbers (30 container 1m3 capacity & 20 container 10m3 capacity)		50	0	15,000	0	15,000	0	0	15,000	I
Beit Hanoun Municipality										15,000		
NA												
Um Al Naser Municipality												
Gaza Municipality												
1	Wheeled Containers (800 liter)	Total damage to 50 containers and partial damage to 60 containers by shelling or burning	75%	110		15,000	25,000	40,000	0	0	40,000	M
2	Un-Wheeled Containers (1,600 liter)	Total Damage to 8 containers	100%	8		0	4,000	4,000	0	0	4,000	M
3	Skip Lift Containers (6,000 liter)	Total damage to 4 containers	100%	4		0	6,000	6,000	0	0	6,000	M
Wadi Gaza Municipality										50,000		
NA												
Al Moghraga Municipality												
1	Damage of solid waste containers	complete damage of 1 cubic meters containers		5		2,500	2,500	0	0	2,500	2,500	I
Al Zahra Municipality										2,500		
NA												
Al Musadar Municipality												
1	Solid Waste containers	complete damage of Solid Waste containers	100%	0	20	0	10,000	10,000	0	0	10,000	I
Total										10,000		
Total										92,500		
Solid Waste - vehicles												
Gaza Municipality												
1	Municipal Service Vehicles	Partial damage to municipal service vehicles including wheel loaders, sweepers, compactor trucks, skip lift truck, bulldozers, pickup double cabin	50%	61		520,000	0	520,000	0	0	520,000	H
Wadi Gaza Municipality										520,000		
1	Municipality solid waste Truck	Complete damage of the municipality solid waste truck	100%	0	1	0	130,000	130,000	0	0	130,000	I
Total										130,000		
Total										757,500		

Municipal Building

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
Beit Iahia Municipality												
1	Municipal Headquarter	Partial Damage of the building and furniture, including: structural parts, serious damages of the aluminum windows, the multipurpose hall, doors and the equipment and furniture "computers, photocopying machines, offices and similar things	20%	1,500		50,000	0	50,000	0	0	50,000	1
2	Municipal Main Stores	Partial Damage of the stores	10%	300		10,000	0	10,000	0	0	10,000	1
											60,000	
Jabalia Municipality												
1	old municipality building	the municipality old building with dimension = (18mx 16m) consists from 3 stories were completely destroyed .	100%	900		0	315,000	315,000	0	20,000	335,000	2
											335,000	
Beit Hanoun Municipality												
1	Old Building of Beit Hanoun Municipality Building	Partial damage of the building including structural items, finishing, plumbing, electrical and related items		150	0	48,160	0	48,160	0	10,000	58,160	2
2	Beit Hanoun Municipality Headquarter	Partial damage of the municipality headquarter including structural items, finishing, plumbing, electrical and related items		550	0	15,785	0	15,785	0	0	15,785	1
											73,945	
Um Al Naser Municipality												
Gaza Municipality												
1	Municipal Main Premises	Partial damage to the doors, windows, and furniture	1%	1		7,000	0	7,000	0	0	7,000	M
2	Municipal Police Building	Total damage to the building, including steel and concret structure, furniture, equipment	100%	1			300,000	300,000	0	4,000	304,000	H
3	Electricity Department Premises	Partial damage to the building, including windows and doors	2%	1		5,000	0	5,000	0	0	5,000	M
4	General Bill Collection Premises	Partial damage to the building and the furniture, including windows, . aluminum partitions, doors, and equipement (server, computers, photocopying mashine)	10%	1		22,000	0	22,000	0	0	22,000	H
5	Gargae Building	Partial damage to the agarage facilities, including northern fence, workshop metal shade, electricity network, spastus shade, windows, doors and equipment (computers, photocopying, fax)	40%	1		250,000	0	250,000	0	1,000	251,000	H
											589,000	
Wadi Gaza Municipality												
1	Municipal headquarter	Partail Minor damage				2,000	0	2,000	0	0	2,000	1
											2,000	
Al Moghraga Municipality												
1	Municipality Headquarter	Serious partial damage of the headquarter, including serious structural damages, furniture, equipments, Aluminum windows and other things	60%	300	0	107,280		107,280	0	5,000	112,280	1
											112,280	
Al Zahra Municipality												
1	Municipal Headquarter	Partial damage of the municipality headquarter including structural items, finishing, plumbing, electrical and equipments		400	0	30,000	0	30,000	0	0	30,000	1
											30,000	
Khuza'ah Municipality												
1	Khuza'ah Service Vehicles Garage	damage of the Garage	100%	200		0	6,000	6,000	0	0	6,000	1
											6,000	

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
Bani Suhila Municipality												
1	Municipality Headquarter	Complete damage of the municipality headquarter, including structures, furniture, equipment and tools	100%	0	820	0	328,000	328,000	10,000	30,000	368,000	1
2	Municipality old Building and stores	Complete damage of the municipality old building, including structures, furniture, equipment and tools	100%	0	300	0	120,000	120,000	5,000	20,000	145,000	1
											513,000	
Rafah Municipality												
1	Municipality Headquarter	Complete damage of two floors of the building and partial damage to the rest of the building	30%	1,200	1,800	500,000	165,000	665,000	0	40,000	705,000	1
2	municipal store building	complete damage of the stores	100%	0	2,434		150,000	150,000	0	30,000	180,000	2
3	municipal workshop and	Partial Damage	20%	1,336		50,000	0	50,000	0	0	50,000	1
4	fisher port	complete damage	100%		12,000	0	380,000	380,000	0	20,000	400,000	1
5	municipal clinic and safety center	Partial Damage	50%	1,000		37,000	0	37,000	0	3,000	40,000	2
6	municipal administration center on the beach	complete damage	100%		600	0	190,000	190,000	0	10,000	200,000	2
											1,575,000	
Khan Younis Municipality												
1	Municipal headquarter	partial damage (minor)	1%			10,000	0	10,000			10,000	1
											10,000	
Al Maghazi Municipality												
1	municipality old building	Complete damage of the municipality old building, consists of ground floor and three floors. Including the furniture (150 m2 each floor)	100%		600		245,000	245,000	0	20,000	265,000	
											265,000	
Total											3,571,225	

Municipal Centers

	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
Beit Lahia Municipality												
1	Municipality community information technology Center	Partial Damage of the building and furniture, including: structural parts, serious damages of the aluminum windows, doors and the equipment and furniture "computers, photocopying machines, offices and similar things	15%	1		20,000	0	20,000	0	0	20,000	1
2	Al Salteen Municipal Multipurpose Hall	Partial serious Damage of the building	70%	1		120,000	0	120,000	0	0	120,000	2
											140,000	
Jabalia Municipality												
Beit Hanoun Municipality												
Um Al Naser Municipality												
Gaza Municipality												
1	Holst Cultural Center	Partial damage to the fence, windows, and doors	2%	1		5,000	0	5,000	0	0	5,000	M
2	Artificial Limbs Center	Partial damage to the windows, doors, and spastus shade	2%	1		4,000	0	4,000	0	0	4,000	M
3	Rashad Shawa Cultural Center	Total damage of the eastern fence and srious partial damage to the glass windows and doors, cafeteria, guardrail and the garden	15%	1		70,000	150,000	220,000	0	6,000	226,000	H
4	Child happiness Center	Partial damage to windows, glass doors, and tiles pavement	3%	1		5,000	0	5,000	0	0	5,000	M
5	Arts and Crafts Village	Partial damage to the culture hall roof, windows and doors	4%	1		3,000	0	3,000	0	0	3,000	M
6	Public Library	Partial damage to windows, aluminum partitions, book shelves	10%	1		18,000	0	18,000	0	0	18,000	H
7	Beach Municipal Club	Partial damage to the facility, including the western fence, rooms' roof, windows, doors, and shade	8%	1		10,000	0	10,000	0	0	10,000	H
											271,000	
Wadi Gaza Municipality												
1	Municipal culture center	Partial damage of the municipal community center, including structural damages and damages in the aluminum windows				4,000	0	4,000	0	0	4,000	1
											4,000	
Al Moghraga Municipality												
1	Municipal Kidd garden	Partial damage of the municipal community center, including structural damages and damages in the aluminum windows				10,350	0	10,350	0	0	10,350	1
											10,350	
Al Zahra Municipality												
Rafah Municipality												
1	municipal library	Partial damage of the library	30%	1,530		80,000	0	80,000	0	0	80,000	2
											80,000	
Al Musadar Municipality												
1	Al Musadar Municipal community center and kidd garden	Partial damage Al Musadar Municipal community center and kidd garden	20%	480	0	33,600	0	33,600	0	1,000	34,600	1
											34,600	
Khan Younis Municipality												
1	Municipal community	partial damage of the center					50,000	50,000		3,000	53,000	1
											53,000	
Total											592,950	

Municipal Markets

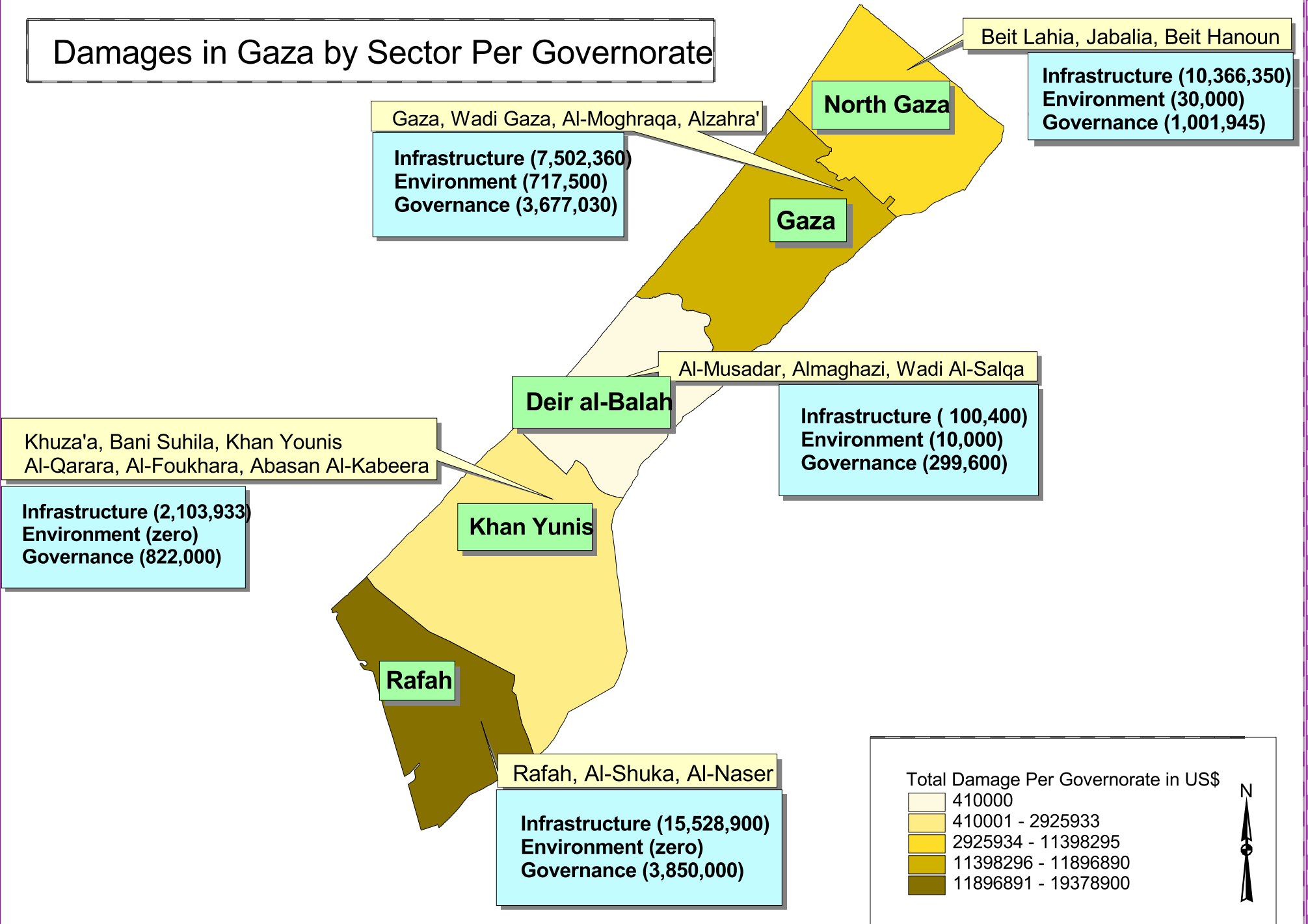
	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
	Beit Lahia Municipality											
1	Mashro'a Beit Lahia Market	Complete damage of the market, including steel structures and concrete structures and the infrastructure	100%		700	250,000	0	250,000	5,000	10,000	265,000	1
											265,000	
	Jabalia Municipality											
	Beit Hanoun Municipality											
	NA											
	Um Al Naser Municipality											
	Gaza Municipality											
1	Al-Yarmouk Municipal Market	Total damage of the market, including steel and concrete structure and infrastructure in addition to partial damage of the small trade market including tiles pavement	100%	1		5,000	1,520,000	1,525,000	20,000	10,000	1,555,000	H
											1,555,000	
	Wadi Gaza Municipality											
	Al Moghraga Municipality											
	Al Zahra Municipality											
1	Municipal Market	Complete damage of the municipality Reinforced concrete Market	100%	0	1	0	100,000	100,000	5,000	5,000	110,000	3
											110,000	
	Rafah Municipality											
1	el-shaaby market	complete damage	100%		12,000	0	470,000	470,000	100,000	30,000	600,000	1
2	municipal commercial center	partial damage	10%	5,200		100,000	0	100,000	0	0	100,000	2
3	central municipal market	partial damage	60%	22,000		380,000	0	380,000	50,000	20,000	450,000	1
											1,150,000	
	Khan Younis Municipality											
1	municipal slaughterhouse	Complete damage of the municipal slaughterhouse	100%				200,000	200,000	0	40,000	240,000	1
											240,000	
	Gaza Municipality											
1	Municipal Abitur (Animal Slaughterhouse)	Serious partial damage to the facility, including structure, fence, guardroom, generator, fuel tank, water tank, fridges, animal yard, maintenance room, electricity network, lighting, internal paths, mashines and equipment	50%	1		650,000	0	650,000	25,000	5,000	680,000	H
											680,000	
Total											4,000,000	

Parks, Gardens and Recreational Facilities

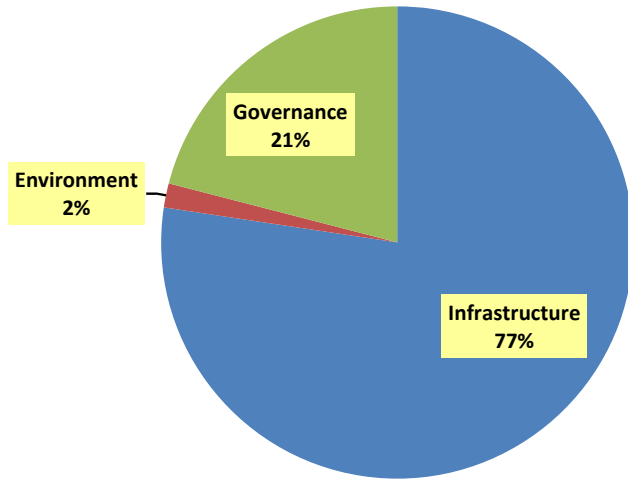
	Municipal Facility Name	Damage Description	% of Damage	Quantity		Cost US \$		Cost US \$			Total US \$	Priority (H,M,L)
Beit Lahia Municipality												
1	Municipal Main public Garden	Partial serious damage of the garden facilities and structures, including the structures and the paths, trees, chairs lightings, infrastructure and others which make it out of use	60%	1		60,000	0	60,000	5,000	5,000	70,000	1
2	Al Mashro'a Public Garden	Partial damage of the garden facilities and structures, including chairs, trees, paths and other things	10%	1		8,000	0	8,000			8,000	2
											78,000	
Jabalia Municipality												
Beit Hanoun Municipality												
1	Municipal Parks and Gardens	Partial damage of municipal parks and gardens		1,500	0	45,000	0	45,000	0	5,000	50,000	1
											50,000	
Um Al Naser Municipality												
Gaza Municipality												
1	Friendship Park	Partial damage to the metal fence, bathrooms, lighting, and a pump.	1%	1		4,000	0	4,000	0	200	4,200	M
2	Barcelona Peace Park	Nearly total damage of the park facilities, including the structure, fence, gates, paths, ramps, trees, chairs, cafeteria, fountain, children games, lighting, and infrastructure	80%	1		0	210,000	210,000	15,000	4,000	229,000	H
3	Municipal Main Park	Partial damage to park facilities, including paths, water lines, trees, and lighting	5%	1		10,000	0	10,000	1,000	600	11,600	H
4	Municipal Nursery	Partial damage to the facility, including green house, water filtration station, and plants	20%	1		5,000	0	5,000	0	200	5,200	H
5	Al-Yarmouk Playground	Partial damage to the playground, including water and lighting networks by shelling	3%	1		5,000	0	2,000	3,000	0	5,000	H
6	AlQubba Garden	Partial damage to the park facilities, including lighting, trees, shrubs, and a pump	3%	1		4,000	0	4,000	0	200	4,200	M
7	Brotherhood Garden	Partial damage to the garden facilities, including wooden shades, windows, pathrooms, children games	5%	1		8,000	0	8,000	0	200	8,200	M
8	Beach Garden	Serious Partial damage to the garden, including fence, two rooms, bathrooms, lighting poles, paths, trees, and infrastructure (water and waste water networks)	50%	1		40,000	0	40,000	5,000	1,000	46,000	H
											313,400	
Wadi Gaza Municipality												
Al Moghraga Municipality												
Al Zahra Municipality												
Rafah Municipality												
1	rafah stadium	Partial damage	70%	17,600	0	695,000	0	695,000		50,000	745,000	1
2	municipal park	Complete damage	100%		4,400	0	220,000	220,000	60,000	20,000	300,000	2
											1,045,000	
Total											1,486,400	

Annex 3
Map and Charts Show Damages by Sector Per Municipality

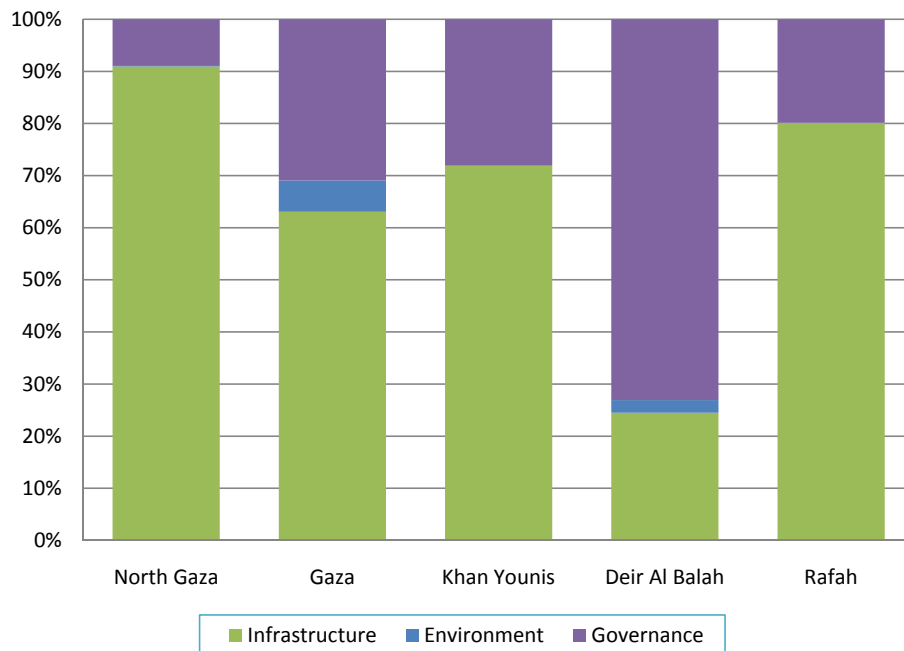
Damages in Gaza by Sector Per Governorate



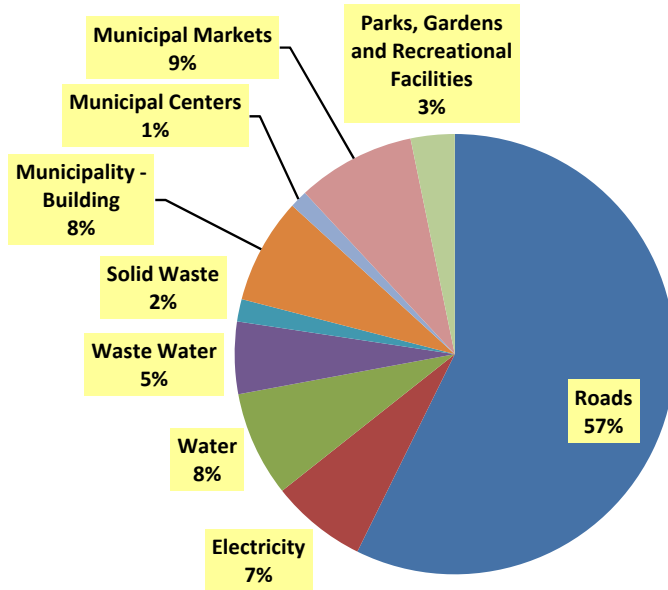
Damages Per Sector in Gaza Strip at Municipal Level



Distribution of Damage by Sector Per Governorate



Damages Per Sub - Sector in Gaza Strip at Municipal Level



Distribution of Damage by Sub - Sector Per Governorate

