

Progress Report (26)

1. Report Summary

(1) **Project Title:** Emergency Water Supply & Rehabilitation Programme (PAL10-52737)

(2) **Date of the approval:** July 2006

(3) **Project budget:** USD 5,424,106

(4) **Scheme of the Project:** Emergency Grant

(5) **Period covered by the report:** 01 January - 31 March 2014, Progress Report No. (26)

(6) **Names of UNDP Officer in charge:**

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(7) **Names of PA counterpart:**

- Eng. Rebhi Elsheikh, Deputy Head of PWA, Mobile: 0599267103
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- Mr. Sufian Hamad, Municipality of Beit Hanoun Tel: 08 2488010

2. Contents

(1) Summary of the project

The project aims at improving the quality of life and health conditions through developing and improving water supply services and facilities in both Rafah and Northern Governorates in the Gaza Strip. The project will also serve residents of the poor camps, suburbs and rural areas surrounding the city of Rafah.

Overall, the Project will improve the overall management of the water system facilities in the Rafah Governorate. For the Northern Governorate, the project will develop and improve the capacity of current water facilities for the municipalities of Beit Hanoun.

(2) Project components

Component	Budget	Project site
a. Construction of water tank	500,000	Rafah
b. Construction of trunk line	219,738	Rafah
c. Construction of pump station	578,822	Rafah
d. Construction of water network	101,603	Rafah
e. Construction of ST-25 Storage Tank (at Western zone) including the booster station	1,150,000	Beit Hanoun
f. Construction of Storage tank at the eastern zone) including the booster station	1,000,000	Beit Hanoun
g. Trunk line for the western zone and Eastern zone	583,000	Beit Hanoun
h. Rehabilitation and reconfiguration of water wells in Biet Hanoun	284,000	Beit Hanoun
i. Detailed Design of Beit Hanoun Components	66,000	Beit Hanoun

(3)Project timeframe, schedule status, progress of activities, and tasks & measures

Indicated output	Activities	Timeframe								Schedule Status	Activities done in the reporting period	Remaining Work	Tasks & Measures
		2013				2014							
		1 Q	2 Q	3 Q	4 Q	1 Q	2 Q	3 Q	4 Q				
Output 1: Access and availability of fresh water supply is improved to reach an average of 100-120 l/c/d	Construction of ST-18-A Storage Tank in Rafah with capacity of 3000 m ³ .	X								Completed 100%	<ul style="list-style-type: none"> - Contract for completion the construction of water tank was signed on 2 February 2011 and the implementation was launched in June 2011 due to the delay in receiving the construction materials. - 207 M³ of soil were excavated for the foundation. - 590 M³ of concrete were casted included plain concrete and reinforced concrete for foundation and the three walls. - Cast concrete for the dome of the tank. - Three concrete manholes 100 cm diameter were supplied and installed. - 210 m² of block were built at the boundary - 189 lm of pipes were supplied and installed. - 3,342 working days were created. - Water leakage tests were completed. 		

													<ul style="list-style-type: none"> - Internal and external ladders were installed. - Insulation work and crack fillings were completed. - External and internal painting was completed. - Main entrance gate was supplied and installed. - All required valves were installed. - UNDP/PAPP formed handing over committee on 12 Sept. 2012 and a snag list was issued to be done within two weeks. - The water tank was handed over on 10 October 2012. - On 15 Feb. 2013, a contract was signed with Gaza Electricity Distribution Company (GEDCO) in order to perform services in respect of electricity subscription fees for Tal Sultan Water tank. The amount of the contract is \$7,213.42 		
Construction of ST-25 Storage Tank in Beit Hanoun (at Western zone, 4000 m3)including the booster station	X	X	X	X	X	X	X			On-going The achievement ratio is 99%	<ul style="list-style-type: none"> - Approval from CoGat was lately received on 28th of June 2012. - UNDP/PAPP signed a contract with Abu Warda Company on 22 July 2012 with total amount USD 810,101 and the duration is 	<ul style="list-style-type: none"> - Commissioning and testing the system. - Conducting 30 hours training for the municipality engineers on the operation and 			

											<ul style="list-style-type: none"> 8 months. - The start date upon order to commence is 27 Dec. 2012 and the planned end date is 26 August 2013. - The contractor completed the mobilization work. - Excavation work for water tank foundation was completed. - Base coarse layer underneath water tank foundation was laid. - Outlet pipes underneath the tank foundation were supplied and installed. - Plain concrete were casted underneath tank foundation. - Reinforced concrete for water tank foundation was casted. - 105 cubic meters of concrete were casted for the dome - 35 cubic meters of concrete were casted for the ring beam - 14 cubic meters concrete for the service building were casted. - 92 cubic meters of concrete casted for the retaining and boundary wall were casted. - 160 meters of water stopper were installed in the walls of the tank. 	<p>chlorination. Handing over the project.</p>	
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											<ul style="list-style-type: none"> - Underground steel pipes with different dia. (14" , 12' 10" and 8 ") in the yard for booster pumps manifold were supplied and installed. - Above ground steel pipes with different dia. (10" and 8 ") for inlet line , washout and overflow lines were supplied and installed. - Steel gate valves with different dia. (12" , 10" and 8 ") for pumps manifold , by pass line , inlet line and washout line were supplied and installed. - Five precast concrete manholes with 1.25 m dia were installed - Concrete for the foundations of the external lighting pole was casted. - Concrete of water pumps foundation and chlorination room ground beams, columns, ground slab and roof slab was casted. - Tilling works for service building floor and WC walls was completed. - Kitchen marble in the service building was installed. - Aluminum windows for the service building were supplied and installed. 		
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											<ul style="list-style-type: none"> - Electricity main and sub distribution board were supplied and installed. - Foam concrete for the service building roof was casted. - On 26/9/2013, UNDP/PAPP signed a contract with the Construction Industries Company with total amount NIS 234,000 in order to connect the electricity for the two tanks in Beit Hanoun. - Fuel pump and lightening system were supplied. - PVC water tank with 1.5 m³ capacity was supplied and installed. - Steel leader for the service building was supplied and installed. - Insulation works for internal water tank surfaces and external surface of water tank dome was completed. - The project electricity was connected to the existing electricity network. - Expansion joints of boundary walls were completed. - As built drawing were prepared. - 4,003 working days were 		
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													created.		
													-		
	Construction of Storage tank at the eastern zone (3000 m3) including the booster station	X	X	X	X	X	X						On-going. The achievement ratio is 99%	<ul style="list-style-type: none"> - Approval from CoGat was received on 28th of June 2012. - UNDP/PAPP re advertised the tender on 30 July, conducted site visit and pre bid meeting on 6 August 2012. A committee opened the five received offers on 23 August 2012. - The contract was signed and the project start date upon order to commence is 6 Dec. 2012. The planned end date is 5 Oct. 2013. - The contractor completed the mobilization work, leveling and excavation. - Base coarse layer underneath water tank foundation was laid. - Outlet pipes underneath the tank foundation were supplied and installed. - Plain concrete were casted underneath tank foundation. - Reinforced concrete for water tank foundation was casted. - 88 cubic meters were casted for the dome. - 56 cubic meters were casted for the ring beam and 	<ul style="list-style-type: none"> - Commissioning and testing the system. - Conducting 30 hours training for the municipality engineers on the operation and chlorination. - Handing over the project.

											<p>footing.</p> <ul style="list-style-type: none"> - 79 meters water stopper were installed in the walls of the tank. - The drilling of the new borehole was completed. - Shuttering, reinforcement steel work and casting of the roof slab of the service building was completed. - Hollow blocks works for the service building was completed. - Shuttering, reinforcement steel work and casting lintels of the service building was completed. - Digging of the boreholes for the booster pumps was completed. - On 26/9/2013, UNDP/PAPP signed a contract with the Construction Industries Company with total amount NIS 234,000 in order to connect the electricity for the two tanks in Beit Hanoun. - Electromagnetic flow meter 10" diam was supplied and installed. - Interlock tiles in the yard was supplied and installed. - Electrical components in the service building were 		
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											<ul style="list-style-type: none"> - supplied and installed. - Steel shield for booster pumps, generator and fuel tank were supplied and installed. - Steel ladder for water tank and service building was supplied and installed. - Steel fuel tank was supplied and installed. - Steel entrance gate was supplied and installed. - Insulation works for the internal and external water tank surfaces and the dome was completed. - Internal and external painting of the service building and boundary walls were completed. - Internal and external painting of the service building and boundary walls were completed. - Precast terrazzo stairs for the service building boundary were completed. - Expansion joints work of the boundary walls were completed. - Chlorination system was supplied and installed. - 4,020 working days were created. - 		
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Output 2: Water infrastructure facilities are developed	Construction of Trunk line in Rafah								Completed 100%	???		
	Construction of four one- line booster stations in Rafah								Completed 100%	<ul style="list-style-type: none"> - The contract was signed on February 6, 2011 with amount US \$ 483,516.16 and the implementation was started in July 2011 due to the delay in receiving the construction materials. - Aggregates, cement and steel were entered. - All concrete works were completed. - All block works were completed. - Plastering works were completed. - Generator was supplied and installed. - Steel windows and doors frames were installed. - Electrical transformer, control panel and electrical cable were supplied and installed. - Tiling in service building was completed. - Three small pumps were installed. - Manifold for the three pumps was installed. - 1,527 working days were created. - Booster pumps were installed. 		

												<ul style="list-style-type: none"> - Mechanical works required for pumps was completed. - The booster pump was handed over on 1 November 2012. 			
	Isolating of Rafah Network											Completed 100%	<ul style="list-style-type: none"> - 620 ml of water UPVC pipes with 315 mm diameter were supplied and installed. - 702.6 ml of water UPVC pipes with 200 mm diameter were supplied and installed. - Nine water manholes were supplied and installed. 		
	Trunk line for the western zone and Eastern zone in Beit Hanoun.	X										Completed 100%	<ul style="list-style-type: none"> - Approval from CoGat was received on 28th of June 2012. - UNDP/PAPP signed a contract with Amer Brother Company on 22 July 2012 with amount USD 370,675 and the duration is 4 months. - The project start date upon order to commence work is 1/10/2012 and the planned end date according to the original contract is 1/2/2013. The contract was extended for one month due to the last war in November 2012 and the bad weather. So, project period was extended for 45 days until 10/3/2013. - 3659 meter of UPVC pipes 		

											<p>with different sizes were installed.</p> <ul style="list-style-type: none"> - Fifteen manholes were supplied and installed with 1.2 diameters. - Reinstatement of asphalt roads and interlock tiles roads. - Cleaning and chlorination of the new water network was completed. - 1272 working days were created. 		
Rehabilitation and reconfiguration of water wells in Beit Hanoun	X	X								Completed The achievement ratio is 100%	<ul style="list-style-type: none"> - Approval from CoGat was received on 28th of June 2012. - UNDP/PAPP signed a contract with Abu Muaileq Co. with amount USD 296,000. - The project start date is 7/10/2012 and the planned end date is 6/4/2013. - Water header (Manifold) and submersible pump for Aida well, Al Nada well and Izba well were installed. - Submersible pump for Al-Nada and Um Al Nasser well was installed. - Civil works of Aida well, Al-Nada well, Abu Ghazala well and Um Al Nasser well (internal painting, tiling and sewage manholes) were 		

																								completed.		
																								<ul style="list-style-type: none"> - Electrical works completed. - Diesel generator for Al Nada well was supplied and installed with total amount \$25,328. - 1,000 working days were created. 		
	Detailed Design of Beit Hanoun Components											Completed 100%												<ul style="list-style-type: none"> - Redesign of Beit Hanoun components is completed. 		

Project Completion Date: 30 June, 2014

Notes:

- On 24 March 2014, RoJ approved the extension of the project till 30 June 2014.

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Financial Status by March 31 2014						
Budget Item	Description	Original Budget	A. Revised Budget	B. Disbursement (*)	D. Balance (A-B)	E. Rate of disbursement (%) (B/A*100)
Rafah Components						
Construction of ST-18-A Storage Tank in Rafah (Tal El sultan Tank)	Construction of ST-18-A Storage Tank in Rafah (Tal El sultan Tank)	460,000	\$500,000	433,528	66,472	87 %
Construction of Trunk line in Rafah	Construction of Trunk line in Rafah	630,000	\$219,738	219,738	\$0	100%
Construction of four one- line booster stations in Rafah	Construction of four one- line booster stations in Rafah	500,000	\$578,822	456,701	122,121	79%
Isolating of Rafah Network	Isolating of Rafah Network	210,000	\$101,603	101,603	\$0	100%
Drilling of water wells		720,000				
Sub Total (1) (\$)			\$1,400,163	1,211,570	188,593	
Beit Hanoun Components						
Construction of ST-25 Storage Tank in Beit Hanoun (at Western zone, 4000 m3)including the booster station	Construction of Water Tank ST-25 (WEST)	1,871,163	\$474,500	670,506	479,494	58%
	Construction of Booster Pumping Station St-25 (WEST)		\$107,000			
	Construction of Service Building & Electrical Works (WEST)		\$297,000			
	Site preparation :Earth works, Leveling and Main Electricity connection (ST-25)(WEST)		\$271,500			
Sub Total (2) (\$)			\$1,150,000	670,506	479,494	
Construction of Storage tank at the eastern zone (3000 m3) including the booster station	Construction of Water tank (EAST)		\$449,000	586,263	413,737	59%
	Construction of booster Station (EAST)		\$125,500			
	Construction of Well (EAST)		\$ 65900			

	Construction of Service Building & Electrical Works (EAST)		\$359,600			
Sub Total (3) (\$)			\$1,000,000	586,263	413,737	
Trunk line for the western zone and Eastern zone			\$ 583,000	337,977	245,023	58%
Rehabilitation and reconfiguration of water wells in Beit Hanoun		200,000	\$284,000	320,172	-36,172	112%
Details Design of Beit Hanoun Components			\$66,000	65,900	100	100%
Sub Total (4) (\$)			\$933,000	724,048.6	208,951	
Project Management and Staff	Project Manager Project Assistant 3 Site Engineer	192,000	\$300,000	355,057**	-55,057	118%
Sub Total (5) (\$)		192,000	\$300,000	355,057	-55,057	
Miscellaneous	Rent, utilities, security and communications	239,158	\$239,158	144,790	94,368	61%
Total (\$)- Programmable Amount		5,022,321	\$ 5,022,321	3,692,234	1,330,087	74%
GMS (8%)		401,785.68	401,785.68	285,250	116,536	71%
Total Budget		5,424,107	\$5,424,107	3,977,484	1,446,623	73%

*It is important to highlight that the financial figures in this report are temporary figures, and may be corrected at a later stage due to exchange rate fluctuations, realized gain/loss or any other possible corrections. UNDP/PAPP's financial system operates in such a manner that the financial system closes in early December of each year and that final expenditure reports reflecting the disbursements and GMS of the previous year are only published in March of the following year.

** On 24 March, 2014 ROJ approved the utilization of \$95,000 to cover the deficit in the salaries budget as follows:

- \$60,000 from the miscellaneous budget line.
- \$35,000 from the saving in Beit Hanoun components.

** Salaries for February and March 2014 have not been included in the disbursement because there is a temporary problem in the financial system.

i. Special notes or comments

- On 1 June 2011, EoJ approved modification and budget reallocation of the project.
- On December 20, 2011, Mr. Nakamura Hitoshi from the Representative Office of Japan to PA visited Beit Hanoun and the locations of the two tanks, booster pumps and few well that need rehabilitation and reconfiguration.
- On June 25, 2012, a meeting was held between the Japanese Representative to PA and CoGat official in Tel Aviv where CoGat's approval on Beit Hanoun water supply and network was granted
- After receiving CoGat approval for Beit Hanoun components in June 2012, UNDP/PAPP conducted price market surveys in relation to the issued tenders in 2011 for Beit Hanoun and assessed the capacity of the winner contractors and their willingness to execute the contracts as well. As a result, UNDP/PAPP team decided to proceed and to sign the contracts, three contractors agreed and signed the respective contracts. However, the winner contractor of the eastern storage tank bid didn't accept to sign the contract. So, UNDP/PAPP re advertised the tender of the eastern tank of Beit Hanoun.
- The coordination for bringing the construction materials requested for Beit Hanoun western tank, wells and trunk lines started within the fourth week of September 2012. It should be noted that there is a gap between signing the contracts for Beit Hanoun components and the actual starting dates. Commencement letter is issued by UNDP after getting the construction material into Gaza. This is a preventive measure adapted by UNDP to reduce potential claims that might be submitted due to delay in entering construction material.
- After completion the construction and the operation of Rafah water tank and booster pumps, 50% of Rafah inhabitants (about 100,000 persons) have better access to municipal water supply. This message was published as a success story in UNDP Development Advocate. The success story was among the best twelve stories submitted by 66 UNDP country offices worldwide and selected by a twelve-member jury that included representatives of the Permanent Missions of Australia and Canada to the UN, and prominent print and broadcast international journalists, many of whom focus on development stories.
- The insulation materials request for the construction of Beit Hanoun two water tanks was issued on 22.7.2013 and the materials were partially received on 28.11.2013 which leads to a significant delay in the implementation.

- On 24 March 2014, RoJ approved the extension of the project till 30 June 2014. UNDP will submit the narrative completion report in July 2014 and the final financial report by the end of year 2014.
- On 17 February 2014, Ms. Helen Clark, UNDP Administrator, Mr. Junya Masuura, Ambassador for the Palestinian Authority RoJ to PA, and Eng. Rebhi El-Sheikh, Deputy Head of PWA, inaugurated the "Construction of Storage Tank ST 25 and Booster Pumping Station" project in Beit Hanoun. The heads of UN agencies in Gaza, Beit Hanoun Municipality and community participated in the ceremony. Over 45,000 inhabitants (42,000 people in Beit Hanoun and over 2,500 people in the nearby Um Al Nasser area) will have access to good quality water service after the project is completed.

ii. Pictures of project indicating before the project and progress of the project

See the attached pictures which include:

- Inauguration pictures,
- Implementation pictures,
- Press release.
- Brochure which was distributed during the inauguration

iii. Report authorization by UNDP/PAPP

Reporting person, his/her title and belongings: Project Manager: Hala Othman	Hala
Authorized Project Quality Assurance: Husam Tubail Programme Analyst, Environment Team	Husam Tubail
Date of submission: March 31, 2014	
Supervisor's name and his/her signature: Rima Abu Middain Natural Capital, Team Leader, UNDP/PAPP	R. 14/4/2014 Rima

Annex (1)
The Construction of ST-25 Storage Tank at the Western Zone of Beit Hanoun



The Construction of Storage Tank at the Eastern Zone of Beit Hanoun



Finishing Works



Mechanical Work



Internal stainless steel ladder works



Internal insulation works

Press release in UNDP website:

<http://www.ps.undp.org/content/papp/en/home/presscenter/pressreleases/2014/02/19/undp-administrator-visits-programme-of-assistance-to-the-palestinian-people/>

UNDP Administrator visits Programme of Assistance to the Palestinian People

19 Feb 2014

United Nations Development Programme (UNDP) Administrator Helen Clark wrapped up a two day visit to the occupied Palestinian territories today which focused on development priorities there and how UNDP could support them.

During her visit, Helen Clark met with Prime Minister Rami Hamdallah and other senior ministers to discuss their development priorities, with UNDP staff, and with Palestinian civil society organizations.

She also visited UNDP projects, including one that [assists female entrepreneurs](#), a [water system project in Gaza](#), and a [cultural tourism project near Jericho](#).

Water Project in the Gaza Strip

95% of the water extracted in Gaza is unsuitable for human consumption, forcing the majority of the population to purchase desalinated water. This is a result of the water table's sustainable yield being over extracted, putting its future viability at risk. Compounding this issue, the sewage network has collapsed, leading to widespread discharge of sewage in the area which has contaminated the aquifer.

To help address this issue, Helen Clark inaugurated a new UNDP - supported water system that creates new water networks and supply services to ensure good quality water is available for a local neighborhood. This project, supported by Japan, will improve the quality of life and health conditions of Gaza's residents

UNDP has completed more than 200 water supply and sanitation projects in the West Bank and Gaza Strip. Projects ranged from strengthening water and sanitation authorities to the construction of water supply and distribution networks, storage reservoirs and house connections.

UNDP's Programme of Assistance to the Palestinian People, also known as PAPP, derives its mandate from the UN General Assembly Resolution 33/147 of 20 December 1978. UNDP was requested "to improve the economic and social conditions of the Palestinian people by identifying their social and economic needs and by establishing concrete projects to that end".

Contact Information

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Brochure which was distributed during the inauguration.



Empowered lives.
Resilient nations.



The printed brochure-front



The printed brochure-back

البرنامج الطارىء لاعادة تأهيل إمدادات المياه

**Emergency Water Supply and Rehabilitation
Programme**



مقدمة

يعتبر الوضع الحالي لمياه الشرب في قطاع غزة متدنياً جداً بالمقارنة مع الحد الأدنى للمقاييس الدولية المطلوبة للحفاظ على الصحة العامة من حيث الكمية والنوعية، فقد بلغ معدّل استهلاك الفرد الواحد في اليوم 90 لتر في العام 2011م في حين أن متوسط الحد الأدنى الموصى به من منظمة الصحة العالمية هو 150 لتر في اليوم. وبلغت نسبة التلوث الكيماوي في كميات المياه المستخرجة من الخزان الجوفي أكثر من 90% بأملاح الكلورايد والنترات. يعتبر إنشاء مشاريع خزانات المياه والمضخّات وخطوط النقل والتوزيع الرئيسية ضماناً لتوزيع المياه بشكل عادل لجميع مواطني القطاع.

Background

The current status of drinking water supply in the Gaza Strip is well below acceptable international standards for the protection of public health (minimum standard 150 l/ c/ d). The annual per capita consumption in the Gaza Strip reached 95 l/ c/ d in 2011. More than 90% of the supplied water is chemically contaminated with chlorides and nitrate.

Construction of water tanks, boosters, main carriers and networks are considered the main basis for equitable water distribution for Gaza citizens.



وصف المشروع

فى نوفمبر 2006، وقع برنامج الأمم المتحدة الإنمائي/ برنامج مساعدة الشعب الفلسطيني وسلطة المياه الفلسطينية اتفاقية من خلالها يقوم برنامج الأمم المتحدة الإنمائي / برنامج مساعدة الشعب الفلسطيني بتنفيذ البرنامج الطارئ لاعادة تأهيل إمدادات المياه فى غزة والممول من الحكومة اليابانية ب 5,424,107 دولار امريكى. ويتكون المشروع من جزئين: رزمة رفح و رزمة بيت حانون.

Project description

On 19 November 2006, the United Nation Development Programme / Programme Assistant to the Palestinian People (UNDP/PAPP) and the Palestinian Water Authority (PWA) signed a standard letter of agreement through which UNDP/PAPP will execute the "Emergency Water Supply and Rehabilitation Programme" project with funds from the Government of Japan for the amount of USD 5,424,107. The project consists of two packages: Rafah component and Beit Hanoun component.



الهدف من المشروع

يهدف المشروع إلى تحسين نوعية الحياة والظروف الصحية من خلال تطوير وتحسين الخدمات ومرافق إمدادات المياه في كل من رفح والمحافظات الشمالية في قطاع غزة. كما سيقوم المشروع أيضا بخدمة سكان المخيمات الفقيرة والضواحي والمناطق الريفية المحيطة بمدينة رفح.

Project Aim

The project aims at improving the quality of life and health conditions through developing and improving water supply services and facilities in both Rafah and Northern Governorates in the Gaza Strip. The project will also serve residents of the poor camps, suburbs and rural areas surrounding Rafah City.



رزمة بيت حانون

انشاء الخزان الغربى

يعتبر الخزان الغربى (ST-25) ذو الشكل الدائري وسعة اجمالية تقدر ب 4000 متر مكعب واحدا من أهم مكونات المشروع في مرحلته الأولى، و يعتبر ايضا **خزانا ارضيا** سيخدم محافظة بيت حانون وأجزاء من قرية أم النصر.

انشاء شبكة مياه و خطوط ناقلة

حيث تم تركيب واستبدال أنابيب قديمة، وتركيب خطوط ناقلة جديدة بحيث تربط بين الآبار التى تم تأهيلها من ضمن المشروع وخزانات المياه الجديدة.

اعادة تأهيل الابار المغذية للخزانين

ان الهدف الرئيسي لاعادة تأهيل الآبار الموجودة مسبقا هو لحماية طبقة المياه الجوفية من الاستنزاف من خلال تقليل الحد الأقصى لإنتاج الآبار ل 100 متر مكعب في الساعة. كما وتهدف ايضا الى اعادة تأهيل مخطط امدادات الآبار من خلال منع الضخ المباشر للشبكة وتحويل المياه الى الخزانات عبر الخطوط الناقلة. وقد تم تحقيق ما سبق عن طريق اعادة تحجيم قدرة الضخ لخمس مضخات آبار بالاضافة الى استبدال محركات المضخات و الامدادات الكهربائية والميكانيكية.

انشاء خزان المياه و محطة الضخ فى بئر خديجة بالاضافة الى حفر بئر جديد

حيث تم انشاء خزان مياه ارضى بسعة 3.000 متر مكعب ومضخة مياه ، بالاضافة الى انشاء بئر مياه جديد ومبنى خدمات. هذا وسيتم ربط الخزان والمضخة والبئر بالشبكات الجديدة المغذية لبئير حانون.

Beit Hanoun Packages

- **New Storage Tank ST-25**

One of the main components of the project is the Storage Tank (ST-25) - Phase I with a circular shape and total capacity of 4000 m³. The ST-25 ground storage tank will serve Beit Hanoun locality and some parts of Um EL Nasser.

- **Water Network**

The available works included the installation of new pipes, pipes replacement and new trunk lines from the existing wells in order to be re-configured to the water tanks.

- **Reconfiguration of Existing Wells**

The main purpose of reconfiguring the existing water wells is to protect the aquifer from depletion by limiting the maximum production rate of the wells to 100 m³/hr. and reconfigure the supply schemes from the wells by preventing the direct pumping into the network and diverting all of the supplied water via trunk lines to the storage tanks. This was translated into resizing five wells' pumping capacity and the power of the pumps' motors and the electrical and mechanical installations.

- **Construction of Khadeja Storage Tank , Khadeja Well and Booster Pumping station**

This component consists of the construction of 3000 cubic meters ground water storage tank with the construction of a booster pump. The works also included the construction of anew water well and service building. The tank, booster pump and water well will be connected to the new networks.

شكر وتقدير

يتقدم برنامج الأمم المتحدة الانمائي برنامج مساعدة الشعب الفلسطيني بالشكر الجزيل من حكومة اليابان لدعمها الكريم وتمويلها لهذا المشروع، كما ويتقدم البرنامج بالشكر من سلطة المياه الفلسطينية لدعمها وتسهيلها لانجاز هذا المشروع.

ويتوجه البرنامج بشكر خاص الى بلدية بيت حانون ومصحة مياه بلديات الساحل لتعاونهما ودعمهما الفني والتقني.

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