

## Progress Report (30)

### 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: 1 January 2015- 31 March 2015, Progress Report No. (30)
- (6) Names of UNDP Officer in charge:
- Husam Tubail, Programme Analyst, mobile: 0599606876 e-mail: husam.tubail@undp.org
  - Ms. Hala Othman, Project Manager, mobile: 0599 606798, email: hala.othman@undp.org
- (7) Names of PA counterpart:
- Eng. Rebhi Elsheikh, Deputy Head of PWA, Mobile: 0599267103
  - Dr. Ali Barhoom, Director of Rafah Municipality, Tel: 08 2145196.
  - 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 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 (budget revised according to approval on December 2014)

Component	Budget	Project site
a. Construction of water tank	433,528	Rafah
b. Construction of trunk line	219,738	Rafah
c. Construction of pump station	456,701	Rafah
d. Construction of water network	101,603	Rafah
e. Construction of ST-25 Storage Tank (at Western zone) including the booster station	901,534	Beit Hanoun
f. Construction of Storage tank at the eastern zone) including the booster station	862,463	Beit Hanoun
g. Trunk line for the western zone and Eastern zone	473,681	Beit Hanoun
h. Rehabilitation and reconfiguration of water wells in Biet Hanoun	720,172	Beit Hanoun
i. Detailed Design of Beit Hanoun Components	65,900	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
		2015				2016							
		1 Q	2 Q	3 Q	4 Q	1 Q	2 Q	3 Q	4 Q				
<p><u>Output 1:</u> Access and availability of fresh water supply is improved to reach an average of 100-120 l/c/d</p>	<p>Construction of ST-18-A Storage Tank in Rafah with capacity of 3000 m<sup>3</sup>.</p>									Completed 100%	<ul style="list-style-type: none"> <li>- 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.</li> <li>- 207 M<sup>3</sup> of soil were excavated for the foundation.</li> <li>- 590 M<sup>3</sup> of concrete were casted included plain concrete and reinforced concrete for foundation and the three walls.</li> <li>- Cast concrete for the dome of the tank.</li> <li>- Three concrete manholes 100 cm diameter were supplied and installed.</li> <li>- 210 m<sup>2</sup> of block were built at the boundary</li> <li>- 189 L.M. of pipes were supplied and installed.</li> <li>- 3,342 working days were created.</li> <li>- Water leakage tests were completed.</li> </ul>		

																	<ul style="list-style-type: none"> <li>- Internal and external ladders were installed.</li> <li>- Insulation work and crack fillings were completed.</li> <li>- External and internal painting was completed.</li> <li>- Main entrance gate was supplied and installed.</li> <li>- All required valves were installed.</li> <li>- UNDP/PAPP formed handing over committee on 12 Sept. 2012 and a snag list was issued to be done within two weeks.</li> <li>- The water tank was handed over on 10 October 2012.</li> <li>- 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</li> </ul>		
	Construction of ST-25 Storage Tank in Beit Hanoun (at Western zone, 4000 m3 )including the booster station	X	X	X	X	X	X			Completed 100%							<ul style="list-style-type: none"> <li>- Approval from CoGat was received on 28th of June 2012.</li> <li>- UNDP/PAPP signed a contract with Abu Warda Company on 22 July 2012 with total amount USD</li> </ul>		

											<p>810,101 and the duration is 8 months.</p> <ul style="list-style-type: none"> <li>- The start date was 27 Dec. 2012 and end date 26 August 2013.</li> <li>- The contractor completed the mobilization work.</li> <li>- Excavation work for water tank foundation was completed.</li> <li>- Base coarse layer underneath water tank foundation was laid.</li> <li>- Outlet pipes underneath the tank foundation were supplied and installed.</li> <li>- Plain concrete were casted underneath tank foundation.</li> <li>- Reinforced concrete for water tank foundation was casted.</li> <li>- 105 cubic meters of concrete were casted for the dome</li> <li>- 35 cubic meters of concrete were casted for the ring beam</li> <li>- 14 cubic meters concrete for the service building were casted.</li> <li>- 92 cubic meters of concrete casted for the retaining and boundary wall were casted.</li> <li>- 160 meters of water stopper were installed in the walls of the tank.</li> </ul>		
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									<ul style="list-style-type: none"> <li>- 200 ml of underground steel pipes with different dia. (<b>14"</b>, <b>12' 10" and 8"</b>) in the yard for booster pumps manifold were supplied and installed.</li> <li>- Above ground steel pipes <b>with different dia. (10" and 8"</b>) for inlet line, washout and overflow lines were supplied and installed.</li> <li>- Steel gate valves with different dia. (<b>12", 10" and 8"</b>) for pumps manifold, by pass line, inlet line and washout line were supplied and installed.</li> <li>- Five precast concrete manholes with 1.25 m dia were installed</li> <li>- Concrete for the foundations of the external lighting pole was casted.</li> <li>- Concrete of water pumps foundation and chlorination room ground beams, columns, ground slab and roof slab was casted.</li> <li>- Tilling works for service building floor and WC walls was completed.</li> <li>- Kitchen marble in the service building was installed.</li> <li>- Aluminum windows for the service building were supplied and installed.</li> </ul>		
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											<ul style="list-style-type: none"> <li>- Electricity main and sub distribution board were supplied and installed.</li> <li>- Foam concrete for the service building roof was casted.</li> <li>- 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.</li> <li>- Fuel pump and lightening system were supplied.</li> <li>- PVC water tank with 1.5 m<sup>3</sup> capacity was supplied and installed.</li> <li>- Steel leader for the service building was supplied and installed.</li> <li>- Insulation works for internal water tank surfaces and external surface of water tank dome was completed.</li> <li>- The project electricity was connected to the existing electricity network.</li> <li>- Expansion joints of boundary walls were completed.</li> <li>- As built drawing were prepared.</li> <li>- Commissioning and testing the system was completed.</li> </ul>		
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											<ul style="list-style-type: none"> <li>- 30 hours training for the municipality engineers on the operation and chlorination were conducted.</li> <li>- The tank was handed over on June 1, 2014.</li> <li>- 4,255 working days were created.</li> </ul>	
	Rehabilitation ST-25 Storage Tank in Beit Hanoun	X	X	X	X					On going	<ul style="list-style-type: none"> <li>- Mobilization phase started after getting the approval from GoJ on the 8<sup>th</sup> of December 2014. The design works including BoQs were completed and the procurement process was initiated on 25 March 2015. The invitation to bid was advertised and the bids will be opened on 16 April 2015.</li> </ul>	
	Construction of Storage tank at the eastern zone (3000 m3) including the booster station									Completed 100%	<ul style="list-style-type: none"> <li>- Approval from CoGat was received on 28<sup>th</sup> of June 2012.</li> <li>- 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.</li> <li>- The contract was signed and the project started in 6 Dec. 2012. The end date was 5 Oct. 2013.</li> </ul>	



										<ul style="list-style-type: none"><li>- The contractor completed the mobilization work, leveling and excavation.</li><li>- Base coarse layer underneath water tank foundation was laid.</li><li>- Outlet pipes underneath the tank foundation were supplied and installed.</li><li>- Plain concrete were casted underneath tank foundation.</li><li>- Reinforced concrete for water tank foundation was casted.</li><li>- 88 cubic meters were casted for the dome.</li><li>- 56 cubic meters were casted for the ring beam and footing.</li><li>- 79 meters water stopper were installed in the walls of the tank.</li><li>- The drilling of the new borehole was completed.</li><li>- Shuttering, reinforcement steel work and casting of the roof slab of the service building was completed.</li><li>- Hollow blocks works for the service building was completed.</li><li>- Shuttering, reinforcement steel work and casting lintels of the service building was completed.</li></ul>		
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											<ul style="list-style-type: none"> <li>- Digging of the boreholes for the booster pumps was completed.</li> <li>- 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.</li> <li>- Electromagnetic flow meter 10" dia was supplied and installed.</li> <li>- Interlock tiles in the yard was supplied and installed.</li> <li>- Electrical components in the service building were supplied and installed.</li> <li>- Steel shield for booster pumps, generator and fuel tank were supplied and installed.</li> <li>- Steel ladder for water tank and service building was supplied and installed.</li> <li>- Steel fuel tank was supplied and installed.</li> <li>- Steel entrance gate was supplied and installed.</li> <li>- Insulation works for the internal and external water tank surfaces and the dome was completed.</li> <li>- Internal and external painting of the service</li> </ul>		
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												<p>building and boundary walls were completed.</p> <ul style="list-style-type: none"> <li>- Internal and external painting of the service building and boundary walls were completed.</li> <li>- Precast terrazzo stairs for the service building boundary were completed.</li> <li>- Expansion joints work of the boundary walls were completed.</li> <li>- Chlorination system was supplied and installed.</li> <li>- 300 L.M. of pipes were supplied and installed.</li> <li>- Water well was constructed.</li> <li>- Commissioning and testing the system completed.</li> <li>- The tank was handed over on June 1, 2014.</li> <li>- 4,444 working days were created.</li> </ul>		
	Rehabilitation of storage tank at the eastern zone (3000 m3) including the booster station	X	X	X	X						On going	<p>Mobilization phase started after getting the approval from GoJ on 8 December 2014. The design works including BoQs were completed and the procurement process was initiated on 25 March 2015. The invitation to bid was advertised and the bids will be opened on 16 April 2015</p>		
Output 2:	Construction of Trunk line in Rafah										Completed 100%			

Water infrastructure facilities are developed	Construction of four one- line booster stations in Rafah								Completed 100%	<ul style="list-style-type: none"> <li>- The contract was signed on February 6, 2011 with amount US \$ 483,516.16 and the implementation started in July 2011 due to the delay in receiving the construction materials.</li> <li>- Aggregates, cement and steel were entered.</li> <li>- All concrete works were completed.</li> <li>- All block works were completed.</li> <li>- Plastering works were completed.</li> <li>- Generator was supplied and installed.</li> <li>- Steel windows and doors frames were installed.</li> <li>- Electrical transformer, control panel and electrical cable were supplied and installed.</li> <li>- Tiling in service building was completed.</li> <li>- Three small pumps were installed.</li> <li>- Manifold for the three pumps was installed.</li> <li>- 1,527 working days were created.</li> <li>- Booster pumps were installed.</li> <li>- Mechanical works required for pumps was completed.</li> </ul>		
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																	- The booster pump was handed over on 1 November 2012.		
	Isolating of Rafah Network													Completed 100%			- 620 LM of water UPVC pipes with 315 mm diameter were supplied and installed. - 702.6 LM 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.													Completed 100%			- Approval from CoGat was received on 28 <sup>th</sup> 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 was 1 October 2012 and it was completed in March 2013. - 6,200 meter of UPVC pipes with different sizes were installed. - 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.		



														<ul style="list-style-type: none"> <li>- Electrical works completed.</li> <li>- Diesel generator for Al Nada well was supplied and installed with total amount \$25,328.</li> <li>- 500 L.M. of pipes were supplied and installed.</li> <li>- Five water wells were reconfigured.</li> <li>- 1,000 working days were created.</li> </ul>			
	Reconstruction of 2 water wells (Aida water well and Al Nada Water Well) and construction of a new water well near the western tank.	X	X	X	X									On going	<ul style="list-style-type: none"> <li>- Mobilization phase started after getting the approval from GoJ on 8 December 2014. The design works including BoQs were completed and the procurement process was initiated on 25 March 2015. The invitation to bid was advertised and the bids will be opened on 16 April 2015.</li> </ul>		
	Detailed Design of Beit Hanoun Components													Completed 100%	<ul style="list-style-type: none"> <li>- Redesign of Beit Hanoun components is completed.</li> </ul>		
Project Completion Date: 31 March, 2016																	

Financial Status by March 31, 2015							
Budget Item	Description	Original Budget USD	A. Revised Budget USD 2011	B. Revised Budget Approved Dec. 2014	C. Disbursement*USD	D. Balance (B-C) USD	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	433,528	0	100%
Construction of Trunk line in Rafah	Construction of Trunk line in Rafah	630,000	\$219,738	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	456,701	0	100%
Isolating of Rafah Network	Isolating of Rafah Network	210,000	\$101,603	101,603	101,603	\$0	100%
Drilling of water wells		720,000					
Sub Total (1) (\$)			\$1,400,163	1,211,570	1,211,570	0	
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	\$1,150,000	901,534	851,534	\$50,000	94%
	Construction of Booster Pumping Station St-25 (WEST)						
	Construction of Service Building & Electrical Works (WEST)						
	Site preparation :Earth works, Leveling and Main Electricity connection (ST-25)( WEST)						
	Rehabilitation ST-25 Storage Tank in Beit Hanoun (approved in Dec. 2014)						
Sub Total (2) (\$)			\$1,150,000	\$ 901,534	851,534		
	Construction of Water tank (EAST)						



Construction of Storage tank at the eastern zone (3000 m3) including the booster station	Construction of booster Station (EAST)						
	Construction of Well (EAST)		\$1,000,000	862,463	712,463	150,000	83%
	Construction of Service Building & Electrical Works (EAST)						
	Rehabilitation of storage tank at the eastern zone (3000 m3) including the booster station networks (Approved in Dec. 2014)						
Sub Total (3) (\$)			\$1,000,000	\$ 862,463	\$ 712,463	150,000	
Trunk line for the western zone and Eastern zone Rehabilitation of 2,500 LM of water carriers and networks (Approved in Dec. 2014)			\$ 583,000	473,681	337,977	135,704	71%
Rehabilitation and reconfiguration of water wells in Beit Hanoun Reconstruction of 2 water wells (Aida water well and Al Nada Water Well) and construction of a new water well near the western tank. (Approved in Dec. 2014)		200,000	\$284,000	720,172	320,172	400,000	44%
Details Design of Beit Hanoun Components			\$66,000	65,900	65,900	100	100%
Sub Total (4) (\$)			\$933,000	1,259,753	724,049	535,804	
Project Management and Staff	Project Manager (25%) Project Assistant (25%) Project Engineer (100%) 3 Site Engineer (one electrical engineer and two civil engineers)	192,000	\$300,000	589,366	409,366	180,000	69.5%
Sub Total (5) (\$)		192,000	\$300,000	589,366	409,366	180,000	
Miscellaneous	Rent, utilities, security and communications	239,158	\$239,158	197,635	156,429	41,206	79%
Total (\$) - Programmable Amount		5,022,321	\$ 5,022,321	\$ 5,022,321	4,065,410	956,910	81%
GMS (8%)		401,785	401,785	401,785	324,984	76,801	81%
Total Budget		5,424,106	\$5,424,106	\$5,424,106	4,390,393	1,033,712	81%

\*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.

i. Special notes or comments

- On 8 December 2014, the EoJ approved the utilizing of remaining project budget balance to reconstruct the damaged water wells and tanks in Beit Hanoun.
- UNDP engineers have completed the detailed design of the rehabilitation works and the BoQs. All the rehabilitation works were divided into two packages as follows:

Package 01: Rehabilitation of wells in eastern area of Beit Hanoun. The scope of this contract includes:

1. Rehabilitation of Khadeja water tank;
2. Construction of new water well (Al sultan well);
3. Rehabilitation of Aida well, Khadeja well and Abu Ghazala well;
4. Reconfiguration and rehabilitation of the above mentioned water wells. The works include civil, mechanical and electrical works;
5. Rehabilitation of water networks.

Package 02: Rehabilitation of wells in western area of Beit Hanoun. The scope of this contract includes:

1. Rehabilitation of ST25 water tank;
2. Reconstruction of Al Nada water well and construction of new water well at ST-25 water tank;
3. Reconfiguring and rehabilitation of the above mentioned water wells. The works include civil, mechanical and electrical works;
4. Rehabilitation of water networks.

After preparing the details design, it was found necessary to increase the number of the water wells that will be rehabilitated in order to provide continuous supply and could operate the system efficiently. The increase in the scope of work will not lead to any increase in the allocated budget. More details about the exact cost will be provided in the next progress report after signing the contract with the contractors.

The division of work into two packages will facilitate the implementation and the supervision.

- The recruitment of the UNV engineers is started.

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

Annex 1: Invitation to Bid.

6. Report authorization by UNDP/PAPP

Reporting person, his/her title and belongings: Project Manager: Hala Othman	<i>Hala</i>
Authorized Project Quality Assurance: Husam Tubail Programme Analyst, Environment Team	<i>Husam Tubail</i>
Date of submission: 7 April 2015	<i>Rima</i>
Supervisor's name and his/her signature: Rima Abu Middain Natural Capital, Team Leader, UNDP/PAPP	

## Annex 1: Invitation to Bid

United Nations Development Programme  
Programme of Assistance to the Palestinian People  
برنامج الأمم المتحدة الإنمائي / برنامج مساعدة الشعب الفلسطيني



Empowered lives.  
Resilient nations.  
[ITB-2015-061]

### Invitation to Bid (ITB)

Date: 2 April 2015

Reference: [ITB-2015-061]

Subject: **PAL 10-00052737: Emergency Water Supply Project in Beit Hanoun Area in Gaza Strip**

- 1) We hereby solicit your bid for **one** of the following two packages:  
**Package 01 - Rehabilitation of Wells in Eastern Area of Beit Hanoun**  
**Package 02 - Rehabilitation of Wells in Western Area of Beit Hanoun**

- 2) To enable you to submit a bid, please find enclosed:

Section 1: Instructions to Bidders  
Section 2: Bid Data Sheet (BDS)  
Section 3: Contract for Works (form of)  
Section 4: General Conditions of Contract for Civil Works  
Section 5: Special Conditions  
Section 6: Scope of Works  
Section 7: Technical specifications  
Section 8: Drawings (**package 01 and package 02**)  
Section 9: Price Schedule (Bill of Quantities) (**package 01 and package 02**)  
Section 10: Required forms  
Section 11: Sample forms  
Section 12: Safety, Health and Welfare on Construction Sites - Manual

- 3) Interested bidders may obtain further information at the following email address:  
[proc10.papp@undp.org](mailto:proc10.papp@undp.org)
- 4) Interested bidders are encouraged to attend the Pre-bid meeting & site visit which shall take place as per the following schedule:

Pre-bid meeting Date & Time	Pre-bid meeting Location	Site visit info
<b>7 April 2015@ 10 a.m.</b>	<b>UNDP/PAPP – Gaza Office</b>	<b>Site visit shall be conducted after the pre-bid meeting.</b>

The pre bid meeting minutes, and any further enquiries received on or before **8 April 2015**, will be documented and posted on the UNDP/PAPP designated web site on **9 April 2015**. No inquiries will be accepted after.

- 5) Bids must be delivered to the following address **on or before 10 a.m. (Jerusalem time) on 16 April 2015**:  
United Nations Development Programme (UNDP / PAPP)  
UNDP/PAPP Office –Gaza  
Omar Bin Abed Al Aziz Street  
Al Remal Gaza