

Ref: PAL10-00047395 Date: 07 December 2020

Subject: Construction of Sewage Treatment Plant and Main Pressure Line in Khan Younis (Construction of Khan Younis Waste Water Treatment Plant Project) – Progress Report

Your Excellency,

Reference is made to the contribution agreement between the Government of Japan and UNDP's Programme of Assistance to the Palestinian People for the "Construction of Sewage Treatment Plant and Main Pressure Line in Khan Younis" project, approved effective 04 January 2006.

I am pleased to submit herewith the second quarter progress report for the year 2020, as per the Representative Office of Japan's feedback and clearance.

The report summarizes the progress of the project during the period from 01 April to 30 June 2020. It also provides an overview of the achievements made, challenges, lessons learned and financial status.

I thank the Government of Japan for its contributions through UNDP, and look forward to strengthening our partnership in support of the Palestinian people.

Sincerely yours,

Yvonne Helle Special Representative of the Administrator UNDP/PAPP

Enclosure: Second Quarter 2020 Progress Report

H.E. MAGOSHI Masayuki Ambassador for the Palestinian Affairs Representative of Japan to Palestine Ramallah



UN DP

From the People of Japan

United Nations Development Programme Programme of Assistance to the Palestinian People

Country: occupied Palestinian territory

Donor: Government of Japan

Project:

PAL10-00047395



Progress Report 01 April – 30 June 2020



Progress Report

1. Report Summary

- (1) **Title of the Project:** Construction of Sewage Treatment Plant and Main Pressure Line in Khan Younis (Construction of Khan Waste Water Treatment Plant)
- (2) Project No.: PAL10-00047395, Award No.: 00041529
- (3) Date of the approval: January 2006
- (4) Total Project budget: US\$ 14,829,549
- (5) Scheme of the project: Emergency Grant
- (6) Period covered by the report: 01 April 30 June 2020 (Progress Report No. 53)
- (7) UNDP officer in charge: Iman Al Husseini, Assistant Special Representative, UNDP/PAPP Gaza, Tel: 08-2863364 (ext. 148), Mobile: 059-9606775

Programme manager: Ashraf A. Shamala, UNDP/PAPP Gaza, Tel: 08- 2863364 (ext. 141), Mobile: 059-9606792

(8) Palestinian counterparts:

Mr Sami Hamdan, Director of Wastewater Planning Dept., Palestinian Water Authority, mobile: 059-9417130, e-mail: dr.samihamdan@yahoo.com

Mr Monther Shoblak, Director General, Coastal Municipalities Water Utility, mobile: 059-9267108, e-mail: monthersh@cmwu.ps

Mr Hatem Tayef, Director of Water and Waste Water Department, Municipality of Khan Younis, mobile: 059-9349866, e-mail: <u>hatem.tayef@gmail.com</u>

2. Contents

(1) Summary of the project:

Background:

Khan Younis city is the second largest city in the Gaza Strip with a total administrative area of 59 square kilometres and inhabited by more than 266,000 residents. The city has a rapidly growing population with an annual growth rate of 3.3%. At present, around 60% of the population of Khan Younis city is served by public sewage collection system. However, due to the absence of a wastewater treatment plant, the collected wastewater was pumped without treatment to the existing main storm water box culvert to flow out by gravity to a storm water infiltration pond located in the north-western side of Khan Younis city. In 2008, the collected wastewater was diverted to other six ad-hoc collection lagoons established temporarily in the western side of Khan Younis city. Up to September 2019, more than 15,000 cubic metres of partially treated wastewater was discharged through the lagoons to the Mediterranean Sea. The wastewater generated from unserved areas is evacuated by vacuum trucks and disposed of in the environment without any treatment.

This situation is posing serious risks to the Khan Younis residents' public health as well as contaminating the ground water aquifer. The concentration of Nitrate in some Khan Younis water wells reaches around 458 mg/l, which is almost nine times more than WHO's



recommended level of 50 mg/l. The presence of Nitrate in water has been associated with methemoglobinemia (or blue baby Syndrome), especially in bottle-fed infants¹.

Therefore, the construction of the Khan Younis wastewater treatment plant project (KY WWTP) comes as an emergency response to the vital hygienic and environmental needs of Khan Younis residents. The primary beneficiaries of the project are the 266,000 residents of Khan Younis city. Other beneficiaries include:

- The Khan Younis Municipality, the Coastal Municipalities Water Utility and the Palestinian Government, as the project will contribute to enhancing the management of water and wastewater services.
- Families of unemployed workers who will have the opportunity to work on the project.
- The local contracting sector through gaining additional experience in implementing similar large-scale wastewater treatment projects.

Project Objective:

The project seeks to construct a comprehensive, functional and operational wastewater treatment plant, at a flow capacity of 26,600 cubic metres per day, in accordance with international standards. It aims at protecting public health, water resources and the environment of Khan Younis residents, while contributing to developing public and social infrastructure in the Gaza Strip.

Additional Fund:

The significant fund from the Government of Japan paved the way to secure additional resources to construct the project in full-scale to meet the above-mentioned objective.

In September 2013, UNDP and the Islamic Development Bank (IsDB) signed an agreement for the implementation of the project with a total additional fund amounting to US\$ 42 million from the Kuwait Fund for Arab Economic Development and US\$ 1.175 million from UNDP, in addition to the available fund from the Government of Japan (GoJ). The agreement between UNDP and the IsDB for the implementation of the project was amended with the date extended to 31 December 2020.

Within the substantial fund from the Government of Japan, and the additional resources, the project comprises the construction of the first phase of KY WWTP at a flow capacity of 26,600 cubic metres per day, its effluent and emergency pressure pipeline, infiltration basins and electrical power supply line, in addition to undertaking one-year operation after commissioning by the same contactor who will commission the construction works of the plant.

Project Execution Modality:

The project is directly executed by UNDP in coordination with the project counterparts: the Palestinian Water Authority (PWA) as sector regulator; the Coastal Municipalities Water Utility (CMWU) as service provider and final operator of the project, and the Municipality of Khan Younis as a direct beneficiary.

According to the agreement between UNDP and the IsDB, and with an aim to enhance the implementation capacity of national partners, the CMWU will implement two components of the project namely; the construction of 70% of effluent and emergency pressure pipeline and the construction of infiltration basins under UNDP's full coordination and supervision of the project.

¹ Guidelines for Drinking-water Quality, Third Edition, Volume 1, Recommendations, WHO, Geneva, 2004



(2) Project Components (GoJ Contribution):

Component	Budget US\$	Revised Budget US\$ *	Project Site
a. Constructing main steel pressure pipeline from pump station No. 8 to KY WWTP	1,000,000	527,303	Khan Younis / Eastern side
b. Providing the detailed design for the construction of KY WWTP	1,100,000	946,804	Khan Younis WWTP sites
c. Constructing KY WWTP, Phase I, including one-year operation after commissioning	11,450,000	11,274,745	Khan Younis WWTP site (East of Khan Younis)
d. Carrying out the design review, pre-contract and construction supervision services	0	795,255	Khan Younis WWTP sites

* Revised based on the letter of approval from the Government of Japan to reallocate budget lines dated 10 September 2015.

(3) Project Components/Revised Budget (GoJ Contribution):

			Budg	et – US\$	
No	Project Activities/Components	Original Budget according to Note Verbale 2005	Revised Budget July 2007	Revised Budget as per UNDP/ IsDB agreement September 2013	Revised/R eallocated Budget September 2015
1	Constructing main steel pressure pipeline from Pump Station No. 8 to KY WWTP	1,000,000	1,000,000	527,303	527,303
2	Providing the detailed design for the construction of KY WWTP	0	1,100,000	946,804	946,804
3	Constructing KY WWTP, Phase I, including one-year operation after commissioning	12,550,000	11,450,000	11,700,000	11,274,745
4	Carrying out the design review, pre-contract and construction supervision services for the construction of KY WWTP	0	0	370,000	795,255



5	UNDP Direct Implementation Cost	150,000	150,000	150,629	150,629
6	Sub-total 1	13,700,000	13,700,000	13,694,736	13,694,736
7	Contingencies and Miscellaneous	31,064	31,064	36,328	36,328
8	Sub-total 2	13,731,064	13,731,064	13,731,064	13,731,064
9	Total GMS (GoJ 8%)	1,098,485	1,098,485	1,098,485	1,098,485
10	Grand Total	14,829,549	14,829,549	14,829,549	14,829,549



(4) Project Overall Co-financed Budget/Reallocated Budget

No	Project Activities	Total US\$	Kuwait Fund/IsDB Contribution	GoJ Contribution US\$	UNDP Contribution
1	Constructing Main Steel Pressure Pipeline from Pumping Station No. 8 to KY WWTP	527,303	0	527,303	0
2	Providing the Detailed Design for the Construction of KY WWTP	946,804	0	946,804	0
3	Constructing KY WWTP, Phase I, Part of the Effluent and Emergency Pressure Pipeline with 5.6 Kilometres Length and Electrical Power Supply Line with One Year Operation	30,487,903	19,213,158	11,274,745	0
4	Constructing the Effluent and Emergency Pressure Pipeline with Total Length of 13 Kilometres (CMWU Implementation)	5,792,912	5,792,912	0	0
5	Constructing the Infiltration Basins (CMWU Implementation)	7,144,591	7,144,591	0	0
6	Consultancy Services for the Construction Supervision, Design Review and Preparation of Tender Documents of KY WWTP (Carrying out the Design Review, Pre-contract and Construction Supervision Services)	2,944,594	2,149,339	795,255	0
7	CMWU Direct Implementation Cost	517,500	517,500	0	0
8	UNDP Direct Implementation Cost	1,203,629	0	150,629	1,053,000
9	Miscellaneous (GoJ)	36,328	0	36,328	0
10	Sub-Total 1	49,601,564	34,817,500	13,731,064	1,053,000
11	UNDP GMS (8% GOJ & 7% Kuwait Fund/IsDB)	3,535,710	2,437,225	1,098,485	0
12	Sub -Total 2	53,137,274	37,254,725	14,829,549	1,053,000
13	Contingencies	4,867,275	4,745,275	0	122,000
14	Grand Total	58,004,549	42,000,000	14,829,549	1,175,000



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

Indicated	Activities	Timeframe		Schedule	Activities done in	Remaining	Tasks and						
output			-	19)20	_	Status	the reporting period	Work	Measures
		1 Q	2 Q	3 Q	4 Q	1 Q	2 Q	3 Q	4 Q				
Output 1: Main pressure line supplied and installed.	Installing 996.3 metres of steel pressure pipes of 24 inches diameter, 1,070.4 metres of reinforced concrete pipes of 1,000 mm diameter and constructing 15 reinforced concrete manholes of 1.5mx1.5m and 2mx2m dimensions.									Completed	The on-site activities were completed and handed over in November 2006.		
Output 2: Detailed design and tender documents for the construction of KY WWTP provided.	Carrying out procurement processes to solicit a joint venture of international and local consultants to provide the detailed design. Providing the detailed design and tender documents for the construction of KY WWTP.									Completed	An Expression of Interest (EOI) to prequalify consultants for the detailed design assignment was posted in December 2007 and the evaluation process was completed in February 2008. Request for Proposal (RFP) was posted for the shortlisted consultants in April 2008 and the		



											evaluation process was completed in July 2008. The contract of the detailed design assignment was signed between UNDP and Sogreah & Universal Group consultant in October 2008. The different activities of the detailed design assignment were performed, and the final detailed design report and tender documents were provided in December 2010.		
Output 3: KY WWTP of a capacity of 26,600 cubic metres per day constructed and operated for one year after commissioning.	Constructing KY WWTP, Phase I	X	X	X	X	X	X	X	X	After kicking off the work activities in August 2015, the activities of this component are on-going with six months' delay due to: -Partners' requests for changing the design. -Extending the bids submission	UNDP signed the contract ITB-2016- 158, Construction of Khan Younis Waste Water Treatment Plant and Buildings, with the contractor, Metito (Overseas) LTD, at a total contract price of US\$ 18,935,575.73 on 14 December 2016. The contract price was increased to read US\$ 21,700,133.66 after adopting and approving by the IsDB the variation orders no.1, 2 and 3	Completing the one-year operation of KY WWTP.	While finalizing the detailed design in 2010, it was found that the available fund was not sufficient to comprehensively construct KY WWTP with its necessary effluent and infiltration schemes. UNDP mobilised resources to secure the required additional funding and the Kuwait Fund for



							date due to Israel's denial to issue access permits for the international contractors to access Gaza to attend the pre-bid meeting and the site visit. - Israel's denial to issue visas and permits for the experts of the international contractor to access Israel and Gaza to follow up the on-site construction works, to do the dry tests and finalize the related technical comments. - Interruption/ delay of the on-site works due to	summarized in previous reports. The site was handed over to the contractor on 18 January 2017 and the work activities commenced on 22 January 2017. The on-site construction works started on 13 April 2017 with the excavation works for the administrative building, workshop, aeration tank, clarifiers and drying beds. Up to June 2020, 86,834 m ² of surface soil have been stripped and 133,530 m ³ of soil have been excavated after stripping for the different structural components. The construction works continued by casting reinforced concrete for the foundations of the administrative building, and plain concrete for the aeration tank (on 17 May 2017), followed by casting massive amounts of concrete for the		Arab Economic Development committed to securing the required additional funding through the IsDB in February 2011. UNDP conducted intensive negotiation sessions with the IsDB, PWA and CMWU, which ended in signing the total additional fund's agreement (amounting to US\$42 million) between UNDP and the IsDB in September 2013.
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power by the PWA, building.				closing Karm Abu Salem crossing and stop accessing materials at intervals of escalated security conditions in Gaza. - Interruption/ delay of the on-site works due to evacuating the staff and workers from this site, located at the border area, at intervals of escalated security conditions in Gaza. - After starting the one-year operation of the plant and providing the electrical power by the DWA			
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			operation	83,526 m ³ of selected	
			could be	excavated materials,	
			interrupted	clean sand and Kurkar	
			due to the	have been finally	
			CMWU's	remeasured as	
			inability to	backfilling around	
			provide the	different structural	
			staff	components and for	
			required on	the composting area.	
			a continuous	$18,451 \text{ m}^3$ of clay,	
			basis to		
				sand and gravel layers	
			operate the	have been finally	
			plant.	remeasured for	
				backfilling under and	
				around 4,930 m of	
				PVC perforated pipes	
				installed for the drying	
				beds.	
				7,815 m ² of asphalt	
				and 2,295 m ² of	
				interlock tiles 06 cm	
				thick have been laid	
				for internal roads.	
				15,938 m ² of	
				remeasured natural	
				lawn have been	
				planted at site. 1,573	
				m of aluminium hand	
				railing and 1,528m of	
				galvanized steel fence	
				was installed.	
				The required	
				mechanical and	
				electrical equipment	
				have been delivered	
				and installed on site.	
				Up to June 2020, more	
				up to june 2020, more	



ductile iron, steel, stainless steel and high-density polyethylene pipes, 42 pumps, 03 industrial pumps, 05 valves, 16 mixers, 05 air bolwers, 06 jet aerators, 4,056 air diffusers, 13,100 filter nozzles, 10 sluice gates, 20 stop logs, 04 fine and coarse screens, 02 conveyor, 01 grit classifier, 02 grit and grease scraper bridges, 04 suction scraper bridges, 02 surge skirt, 12 cranes, 10 flowmeters, 03 diesel generators, 02 fuel tanks, 01 surge tanks, 01 biofilter system 18 KW. 01 vacuum truck, 02 front loaders, workshop equipment, lab instruments and main electrical panels, equipment fittings, sensors and cables have been supplied and installed on site for different structural components.				than 3,000 m of	
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for different structural components.					
components.				for different structural	
After completing the					
				After completing the	
civil, mechanical and					



electrical works on
site, the dry tests for
the equipment were
finalized on 08 August
2019. Waste water
was successfully
introduced to the plant
on 09 September
2019, marking the
start of the 45 days
commissioning stage
on 25 September
2019. After reaching
high rates of quality
requirements for the
treated effluent, the
treated effluent was
pumped to the
infiltration basins on
27 September 2019.
After achieving the
quality parameters of
the treated effluent as
required by the design,
the commissioning
stage ended on 07
November 2019 and
the start of the one-
year operation after
commissioning
commenced on 08
November 2019.
The Taking-Over
certificate was issued
on 17 November 2019.
Since 08 November
2019 until now, the



				electrical power needed to operate the plant was continuously supplied from GEDCO's main grid, and KY WWTP was operating on site without major interruption.	
				interruption. However, the Coastal Municipalities Water Utility (CMWU), as the final operator of the plant, did not provide yet the 14 staff required to work with the contractor and assist them during the one-year operation after commissioning. Since May 2020, UNDP supported the provision of 05 specialized key personnel, through a job creation programme implemented by UNDP, to be trained and to exchange knowledge and proper codes of practice, for CMWU's decision to deploy	
				them for the permanent operation of the plant. As of November 2019 until now, more than	



											2.5 million cubic metres of raw sewage was treated in KY WWTP with high quality parameters, and more than 2.3 million cubic metres of treated effluent was recharged into the ground water aquifer through the infiltration basins to ultimately be used for agricultural purposes. Overall, 97% was achieved of this package. The remaining part will be achieved when the one-year operation after commissioning is completed in November 2020.		
Output 4: Design review, pre-contract services and construction supervision for the construction of KY WWTP performed.	Carrying out the design review, pre-contract and construction supervision services for the construction of KY WWTP.	X	X	X	X	X	X	X	X	After kicking off the work activities in August 2015, the activities of this component are on-going with six months delay due to: -partners' requests for changing the	UNDP signed the contract of the design review, pre-contract and construction supervision services with Artelia and Universal Group (Artelia&UG) consultant in the total amount of US\$ 2,944,594 on 30 July 2015. The work activities commenced on 10	Completing the construction supervision services for the operation of KY WWTP project.	Constructability Review (CR) for design and tender documents was requested by the IsDB to be done ahead of launching the construction stage of KY WWTP. UNDP posted an RFP for the CR in December 2013 and completed the



					design.	August 2015. The	evaluation of the
					-extending	overall period of the	submitted offers in
					the bids	implementation and	February 2014.
					submission	completion of the	ş
					date due to	contract was amended	However, the start
					Israeli's		of this component
						on 10 February 2020	was delayed by
					denial to	by an additional 12	more than 12
					issue access	months to be finalized	months due to the
					permits for	on 10 February 2021.	requests for
					the	After finalizing the	changing the
					international	design review and	scope of work
					contractors	procurement processes	from the
					to access	for the project's main	"Constructability
					Gaza to	packages, as updated	Review" to the
					attend the	in previous reports,	"Design Review" in
					pre-bid	the following	April 2014, and
					meeting and	millstones were	due to the
					the site visit.	achieved:	subsequent 51-day
					- Israeli's		hostilities on Gaza
					denial to	➤ UNDP signed the	(08 July - 27
					issue visas	contract ITB-2016-	August 2014)
					and permits	158, Construction of	which prevented
					for the	KY WWTP and	performing any
					experts of	Buildings, with the	activity for the
					the	contractor, Metito	
					international	(Overseas) LTD,	entire duration.
					contractor to	where the on-site	UNDP managed
					access Israel	construction and	the requests for
					and Gaza to	commissioning works	change and moved
					follow up the	of the plant were	ahead with the
					on-site	completed and the	new design
					construction	one-year operation	review, pre-
					works, to do	stage commenced in	contract and
					the dry tests	November 2019 and	construction
					and finalize	the operation	supervision
						activities are still	assignment.
					the related	ongoing as briefed in	•
					technical	the above section of	After kicking off
					comments.		the activities in



					-Interruption/	output 3.	August 2015, the
					delay of the	•	review of the
					on-site	UNDP signed the	design was
						contract ITB 2016-	5
					works due to	219-UNDP,	delayed due to
					closing Karm	Construction of Main	partners' requests
					Abu Salem	Pressure Lines to the	for changing the
					crossing and	Sea and to the	design. UNDP
					stop	Infiltration Basins for	managed to limit
					accessing	KY WWTP, Lot #2	those delays to 02
					materials at	Ductile Iron Pipe	months only,
					intervals of	(UNDP package with	mobilizing in a
					escalated	around 5.6-kilometre	transparent and
					security	length) with the	competitive
					conditions in		manner all
					Gaza.	contractor, Handala	partners to agree
					-Interruption/	Company for	on changes
					delay of the	Engineering	without
					on-site	Contracting &	jeopardizing the
					works due to	General Trade, at a	original design.
					evacuating	total contract price	original design.
					the staff and	of US\$ 1,757,992 on	1
						14 December 2016.	1
					workers	The contract price	1
					from this	was increased to	1
					site, located	read US\$	1
					at the	2,089,626.68 after	1
					border area,	adopting and	1
					at intervals	approving by the	1
					of escalated	IsDB the variation	1
					security	order no.1	
					conditions in	summarized in	1
					Gaza.		1
					-After	previous reports.	
					starting the	The work activities	
					one-year	commenced on 22	
					operation of	January 2017.	
					the plant	As highlighted in the	
					and	previous report, all	
					providing	installation and	1
					providing	IIIStallation and	1



		the electrical power by the PWA, the operation could be interrupted due to the CMWU's inability to provide the staff required on a continuous basis to operate the plant.	construction works for this package were finalized and completed on site on 21 November 2019. 5,544.8 m of ductile iron pipes and 02 gate valves (with a diameter of 900 mm), 04 air release valves and 06 drain gate valves with a diameter of 12 inch were installed and tested on site. 09 reinforced concrete manholes were constructed for the different valves. 2,423 m of the excavated trenches in the asphalt roads were reinstated.	
			The first Taking-Over session was organized on 26 December 2019 and the Taking-Over certificate was issued on 21 January 2020. The overall percentage of achievement of this package is 100%.	
			CMWU signed the contract ITB 2016- 219-CMWU,	



Construction of Main
Pressure Lines to the
Sea and to the
Infiltration Basins for
KY WWTP, Lot #2
Ductile Iron Pipe
(CMWU package
with around 13.0-
kilometre length)
with the contractor,
Handala Company
for Engineering
Contracting &
General Trade, at a
total contract price
of US\$ 3,821,020 on
08 February 2017.
The contract price
was increased to
read US\$
4,607,904.46 after
adoption and
approval of the IsDB
on the variation
order no.1
summarized in
previous reports.
The work activities
commenced on 23
February 2017.
After the Israeli
delay of issuing
approval to access
the ductile iron pipes
to Gaza for more
than one year, their
approval was



		obtained on 13 February 2018.	
		The first lot of pipes (1,767 m with a diameter of 900 mm) successfully entered Gaza in November 2018. The second lot of pipes (3,249 m with a diameter of 900 mm and 2,451 m with a diameter of 1,000 mm) was manufactured and shipped in December 2018 and entered Gaza between 30 January and 18 March 2019.	
		The remaining lot of pipes (3,477 m with a diameter of 900 mm and 2,308.5 m with a diameter of 1,000 mm) were manufactured and shipped to Ashdod port in August and September 2019. Up to December 2019, all required pipes for this contract have entered Gaza.	
		Up to June 2020, more than 8,383 m of pipes (with a diameter of 900 mm)	



and 4,742 m of pipes
(with a diameter of
1000 mm), 04 air
release valves and
08 drain gate valves
(with a diameter of
12 inch) were
installed on site. 08
reinforced concrete
manholes were
constructed for these
valves, in addition to
13 drop manholes
and 03 energy
breakers. 638.3
metre length of
asphalt and 84.7
metre length of
interlock were
reinstated. 50.2 m ³
of reinforced
concrete B300 for
thrust blocks and
30.9 m ³ of reinforced
concrete B300 for
pipes encasement
were casted on site.
The sea outfall for
the emergency
pressure line,
constructed from
reinforced concrete
B300, was
completed on site at
the seashore at the
south western side
of Khan Younis. To
protect the sea



outfall from the direct impacts of the sea waves, large units of interlocking blocks tetrapod shaped (equivalent to 75.3 units
specified in the BOQ), were constructed from reinforced concrete B300 and installed around the sea outfall at the seashore.
The first Taking-Over session was organized on 08 June 2020. The Taking-Over certificate is planned to be issued in July 2020.
The overall percentage of achievement of this package is around 99%.
 CMWU signed the contract ITB 2016- 220-CMWU, Construction of the Infiltration Basins in AI Fukhari for KY WWTP, with the contractor, Abu
Shammala & Abu



Dan Co. General
Trade & Contracting
LTD, at a total
contract price of US\$
5,636,000 on 08
February 2017. The
work activities
commenced on 23
February 2017. The
excavation works
commenced on site
on 01 April 2017. All
the construction
works of the
infiltration basins
have been
completed on site
and the infiltration
basins were handed
over on 16 April
2019. The details of
the main works
accomplished were
highlighted in the
previous reports.
Complimenting the
infiltration basins,
CMWU signed the
contract ITB-2019-
001, Construction of
the Boundary Wall
for the Infiltration
Basins in Al Fukhari
with the contractor,
Golden Steps Co., at
a total contract price
of US\$ 184,300. The



site was handed over to the contractor on 15 July 2019.
The construction works of 1,470 metres length and 2.2 metres height of concrete solid blocks for the boundary wall were completed. The first Taking-Over session was organized on 17 December 2019. The Taking-Over certificate was issued on 15 January 2020. The overall percentage of achievement of this component is 100%
 UNDP signed the contract (ITB-PAL- 0000046488) Construction of Main Electrical Power Supply Line for KY WWTP with the contractor, Saqqa and Khoudary Co. Ltd, at a total contract price of US\$ 841,250 on 02 October 2018.
The work activities commenced on 07



	October 2018.
	October 2018. The contractor moved ahead with the work activities mainly as scheduled. Up to July 2019, 34 hot galvanized lattice steel poles, 2,483 m of electrical wires, 1,163 m of underground cables, 03 main transformers, 02 switch gears, 02 auto re-closers with all required parts,
	fittings and accessories have been supplied and installed on site. In addition, more than 2,802 m of galvanized steel wire mesh (50x50x2.5 mm) for fences was installed on site.
	The electrical power from GEDCO main grid successfully entered the plant for testing on 29 May 2019.
	After completing the main/essential works of the electrical power supply line, and conducting the



required tests by GEDCO, the completed works were partially handed over on 18 July 2019.
The remaining/ postponed portion of the works (the asphalt work for road no. 14 in Al Fukhari) was accomplished on 07 December 2019 by spreading and compacting more than 14,179 m ² of a new layer of asphalt on the road, marking the finalization and completion of works in this package.
The first Taking-Over session was organized on 24 December 2019. The Taking-Over certificate was issued on 19 January 2020.
The overall percentage of achievement of this package is 100%. > UNDP signed the contract (ITB-PAL- 0000058252)



		Construction of Main Influent Pressure Line from Existing GRP Pipe to KY WWTP with the contractor, El Khaesie Co. Ltd, at a total contract price	
		of US\$ 438,900 on 08 April 2019. The work includes constructing a	
		permanent ductile iron pipe (with around 1,300 m length) to transfer the waste water from the existing pumping station no. 08 for the commissioning and operation of the plant.	
		The work activities commenced on 11 April 2019.	
		UNDP uploaded the initial list of materials on the CLA system on 04 February 2019. UNDP received the Israeli approval to access the required pipes and materials on 28 April	
		2019. However, the Israeli authorities	



issued their approval
for the donation
number; required to
ship and facilitate
accessing the
required pipes and
materials through
the Israeli port
without paying
taxes, on 08
September 2019.
Due to that, and
while the pipes were
manufactured in July
2019, the contractor
was able to ship
them in early
October 2019.
Up to December
2019, all required
pipes, valves and
fittings for this
package entered
Gaza.
In January 2020,
1,220.47 m of pipes
(with a diameter of
700 mm) and 45.6 m
of pipes (with a
diameter of 900 mm)
were installed on
site, marking the
finalization and
completion of the
works of this
package.
02 gate valves with a



diameter of 28 inch,
01 air release with a
diameter of 6 inch
and 02 sluice gates
were installed on
site. 75.79 m ³ of
reinforced concrete
B300 were casted on
site for manhole and
thrust blocks.
The first Taking-Over
session was
organized on 04
February 2020. The
Taking-Over
certificate was issued
on 13 February
2020.
The overall
percentage of
achievement of this
package is 100%.
➤ UNDP signed the
contract (PAL-
0000070882)
Temporary
Construction Works
for Influent Pressure
Line for the
commissioning of KY
WWTP with the
contractor, Mushtaha
Co., at a total
contract price of US\$
84,400 on 26 May
2019. The work
includes constructing



	a temporary UPVC
	pipe to enable
	transferring waste
	water from the
	existing pumping
	station no. 08 to KY
	WWTP to start the
	commissioning of the
	plant without delay.
	A variation order
	amounting to US\$
	19,000 was also
	adopted, after
	approving it by the
	IsDB, to clean the
	existing main sewer
	pipes located in
	Salah Elden street
	and to enable
	transferring the
	waste water from
	the city to the
	existing pumping
	station no. 08.
	The work activities
	commenced on 26
	May 2019.
	Up to July 2019, the
	required 1,227 m of
	UPVC pipes were
	supplied, installed
	and tested on site.
	Cleaning the existing
	main sewer pipes
	was also
	accomplished as
	scheduled. The



temporary influent
pressure line for the
commissioning of KY
WWTP was handed
over on 23 July
2019. The
completion of this
package has enabled
introducing the
waste water from
pumping station no.
08 to the plant on 09
September 2019 to
start the
commissioning stage
of KY WWTP without
delay.
Pumping waste
water from pumping
station no. 08 to KY
WWTP continued
through this
temporary line since
the commissioning
stage on 09
September 2019 up
to January 2020;
when it was phased
out after installing
the permanent
ductile iron pipe in
January 2020.
>UNDP launched the
Invitation to Bid
(ITB-PAL-
0000089780)
Rehabilitation of



Pumping Stations No. 08, 03 and 02 in Khan Younis for KY WWWTP on 03 February 2020. The submitted 12 bids/offers were opened on 02 March 2020. The technical
and financial evaluation were concluded on 30 March 2020.
UNDP signed the relevant contract with the contractor, Skills and Quality Construction Co., at a total contract price of US\$ 1,119,629 on 04 May 2020.
The work activities commenced on 07 May 2020.
UNDP uploaded the initial list of materials on the CLA system on 05 March 2020. UNDP uploaded the additional list of materials on the CLA system on 22 June 2020. UNDP received the Israeli approval for the ABC materials (cement, aggregate
and steel



	reinforcement) on 16 April 2020. UNDP is awaiting to receive the Israeli approval for the initial list and the additional list of materials.
	The overall percentage of achievement of this package is around 10%.
	 The IsDB issued their no objection on 23 January 2020 to allocate US\$ 90,000 to cover the cost of diesel fuel required to operate the generators of KY WWTP for one year in case of electricity cuts. To lower the cost, UNDP agreed with the IsDB in March 2020 to purchase the diesel fuel for the KY WWTP through UNRWA, based on the agreement signed between UNDP and UNRWA in May 2019 for the provision of fuel for
	UNDP. Up to June 2020,



	UNDP provided 37,900 litres of diesel fuel for the diesel generators at KY WWTP site. Other quantities will be provided as per the operational needs.
	Since commencement, the consultant continued to provide the construction supervision services on site and at home office as planned.

Project Completion Date: Quarter 04, 2020 (25.5 months to finalize the detailed design (output 2, November 2008 - December 2010), and 27 months for the construction phase (output 3, Q1 2017 – Q2 2019) followed by one-year operation after commissioning.



3. Financial report

Budget items (according to the proposal)	A. Original Budget - Note Verbale US\$	B.1 Revised Budget 1 US\$ ²	B. Revised Budget 3 US\$ ³	C. Disbursement US\$ 4	D. Balance (B-C) US\$	E. Rate of disbursem ent (%) (C/B*100)
Constructing Main Steel Pressure Pipeline from Pump Station No. 8 to KY WWTP ⁵	1,000,000	1,000,000	527,303	527,303.15	- 0.15	100.0%
Providing the Detailed Design for the Construction of KY WWTP ⁶	0	1,100,000	946,804	946,804	0.00	100.0%
Construction of KY WWTP, Phase I, including One-year Operation After Commissioning	12,550,000	11,450,000	11,274,745	10,893,368.28	381,376.72	96.6%
Carrying out the Design Review, Pre-Contract and Construction Supervision	0	0	795,255	731,634.60	63,620.40	92.0%
UNDP Direct Implementation Cost	150,000	150,000	150,629	150,629.19	-0.19	100.0%
Contingencies and Miscellaneous	31,064	31,064	36,328	27,555.56	8,772.44	75.9%
Sub-total	13,731,064	13,731,064	13,731,064	13,277,294.78	453,769.22	96.7%
GMS (8%)	1,098,485	1,098,485	1,098,485	1,062,183.58	36,301.42	96.7%
Realized Loss and Gain 7	0	0	0	-27.67	27.67	
Total	14,829,549	14,829,549	14,829,549	14,339,450.69	490,098.31	96.7%

2 Project Budget was revised based on letter of clearance from the Government of Japan dated 24 July 2007.

3 Project Budget revised based on the letter of approval from the Government of Japan to reallocate budget lines dated 10 September 2015.

- 4 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.
- 5 US\$ 1,000,000 was originally allocated for the implementation of main inlet steel pressure pipeline. 996.3 metres of steel pressure pipes of 24-inch diameter and 1070.4 metres of reinforced concrete pipes of 1,000 mm diameter were installed at a total contractual cost of US\$ 527,303.15 paid to the contractor. The remaining balance is utilized to cover the implementation of the treatment plant component as distributed in budget lines in the agreement signed between UNDP and IsDB on 05 September 2013 and reallocated on 10 September 2015. The remaining part of the pressure pipeline to the treatment plant site should be implemented by UNRWA and CMWU through a committed Italian fund and around one kilometre is still not implemented.
- 6 Based on the revised budget on July 2007, US\$ 1,100,000 was allocated for carrying out and providing the detailed design. The contract was signed between UNDP and the joint venture consultant; Sogreah Consultants & Universal Group, at a total amount of US\$ 946,804. The detailed design assignment was successfully completed without change orders or financial claims at the same contractual amount. The remaining balance of this component amounting US\$ 153,196 is utilized to cover the implementation of project components as distributed in budget lines in the agreement signed between UNDP and IDB on 05 September 2013 and reallocated on 10 September 2015.
- 7 Total US\$ 27.67 is realized as loss and gain in our Financial System (ATLAS) without collecting GMS for this amount.



4. Any special notes or remarks:

- 4.1 The cost estimate for the construction of Khan Younis Waste Water Treatment Plant "KY WWTP", phase I, dramatically increased due to the following reasons:
 - The design capacity of WWTP, Phase I, was increased by 10,000 cubic metres per day (cm/d), based on the recommendations of the preliminary design carried out by the Palestinian Water Authority (PWA). The preliminary scope of work was identified to design an extendable wastewater treatment plant to be implemented in two phases; with inflow capacity of 16,100 cm/d and load estimates for 2018. In parallel, temporary treatment lagoons were proposed to be constructed before the construction of the permanent wastewater treatment plant, to handle 10,000 cm/d of the collected wastewater during an emergency. However, these temporary treatment lagoons had not been constructed and accordingly, the scope of work was modified to design and construct an extendable WWTP to treat the 26,100 cubic metres per day. (The final detailed design's capacity for KY WWTP, Phase I, is 26,600 cubic metres per day).
 - The scope of work of the project was also modified to ensure environmentally sound disposal of the treated wastewater. The ToR of the detailed design was developed accordingly and approved by the project counterparts. The infiltration scheme (that includes the infiltration basins and emergency outflow) was added to the project components to ensure optimum utilization of the treated wastewater as an alternative non-conventional water source. By that, the treated wastewater will be recharged into the aquifer to ultimately be used for irrigation purposes and to release the pressure on the water aquifer. Thus, the detailed design assignment had included designing the components of the ultimate disposal facilities (the infiltration basins and the effluent and emergency pressure pipelines); where no budget lines were allocated in the original project document for the construction of these additional components.
 - The cost for the provision of pre-contract and construction supervision by an international consultancy firm as well as the cost for the one-year operation after commissioning of the treatment plant were also not included in the original project document, in addition to the cost of the design review for the existing design and tender documents of KY WWTP.

4.2 Revised cost estimate for the construction of KY WWTP, phase I, and additional fund required

According to the detailed design cost estimates, it was evident that the available fund of US\$ 11.45 million would neither be enough to construct phase I of KY WWTP nor to construct the necessary complementary components of the project (infiltration basins and effluent and emergency pressure pipelines). To ensure successful implementation and operation of the project, the following activities and their corresponding budget lines were identified for additional funding:

- Constructing KY WWTP, Phase I; including carrying out one-year operation after commissioning of the plant to exchange knowledge and proper codes of practice to CMWU as final operator.
- Constructing the effluent and emergency pressure pipelines to the infiltration basins and to the sea shore outfall, with a total length of around 18.6 Km.
- Constructing infiltration basins to recharge the treated waste water effluent into the water aquifer to ultimately be used for irrigation purposes.
- Constructing the main electrical power supply line to KY WWTP.
- Carrying out the design review, the pre-contract and construction supervision services



for the construction of KY WWTP, Phase I.

Based on the final detailed design report, UNDP revised and developed the overall cost estimate required to implement KY WWTP, Phase I; with its necessary and complementary components, to be a comprehensive, functional and operational project. UNDP mobilised resources to secure the required additional fund. The Kuwait Fund for Arab Economic Development committed in February 2011 to secure the required total additional fund amounting US\$ 43 million for the construction of KY WWTP, Phase I, through the Islamic Development Bank (IsDB).

UNDP conducted intensive negotiation sessions with the IsDB, PWA and CMWU about the management arrangements and the cost estimates, which ended by signing the total additional fund agreement between UNDP and the IsDB on 05 September 2013.

By signing this agreement, the overall project budget is co-financed by the Government of Japan with a total fund amounting to US\$ 14,829,549 and by the Kuwait Fund through the IsDB with a total fund amounting to US\$ 42 million, and by UNDP with a total fund amounting to US\$ 1.175 million.

4.3 Completion of the detailed design and the IsDB's request for doing Constructability Review /Overall Design Review

The detailed design assignment was completed by providing the final detailed design report and tender documents in December 2010. By that, the project was ready to launch the construction stage upon the availability of the required additional fund.

Throughout the negotiations between UNDP and the IsDB to secure the additional fund, the IsDB requested in a meeting in Cairo on 01 October 2012 to carry out a Constructability Review for the available design and tender documents of KY WWTP.

After signing the project agreement between UNDP and the IsDB, UNDP moved with the activities to conduct the Constructability Review and issued the relevant request for proposal in December 2013. The technical and financial evaluation of the three submitted offers was completed on 26 February 2014. However, the IsDB and counterparts requested, in April 2014, to cancel the Constructability Review and to go, instead, for an indepth design review to be done by the construction supervision consultant.

UNDP managed the request for change and shared the new ToR of the design review, precontract and construction supervision services with the IsDB for approval in June 2014, but the approval and activities were delayed due to the hostilities from 08 July to 27 August 2014.

On 03 September 2014, the IsDB requested again to change the scope of the design review from in-depth design review to overall design review. UNDP managed this last request for change and proceeded with the provision of the design review, pre-contract and construction supervision in October 2014.

UNDP highlighted that the repeated request of changing the scope of the design review has seriously delayed launching the project's first activity and impacted its overall progress.

4.4 COGAT "Israeli Authorities" approval to facilitate the entry of construction materials into Gaza

The main list and quantities of needed construction materials were prepared through the detailed design stage and submitted to the Israeli authorities. An Israeli approval regarding the implementation of KY WWTP and facilitating entry of materials for this project was granted on 11 July 2010.

Through procurement processes, UNDP uploaded the initial list of materials for the



treatment plant and the main pressure line (UNDP Packages) on the CLA system in August and September 2016 respectively. CMWU uploaded the initial list of materials for the infiltration basins and the main pressure line (CMWU packages) on the GRAMMS system in December 2016 and January 2017 respectively. UNDP sent the contractors' final list of materials to the CLA on 11 March 2017 for the approval of entry of construction materials to Gaza Strip.

The Israeli approval for the ABC materials for the plant was issued on 19 April 2017. It was followed by issuing approval for 192 items (out of 1,000 items) required for the first construction stage on 07 August 2017, for 420 items required for the second construction stage on 09 January 2018, updated approval for 351 items required for the third construction stage on 26 September 2018, and for 200 items required for the fourth construction stage on 03 and 19 December 2018. UNDP intensified efforts to get approval for the rejected electrical/control cables. The electrical panels and the control cables were approved on 27 February 2019 and 10 March 2019.

The Israeli approval for the entry of only 818 metres of ductile iron pipes for the pressure line (CMWU package) was issued on 18 October 2017. The Israeli approval for only 1,000 metres of ductile iron pipes for the pressure line (UNDP package) was issued on 28 November 2017. The Israeli approval for all pipes for UNDP package was obtained on 09 January 2018, and for all pipes for CMWU package on 13 February 2018.

The Israeli approval for the donation number was issued on 08 September 2019. This was required to ship and access the pipes, valves and fittings for the remaining part of the influent pressure line from pumping station no. 8 to KY WWTP.

Till date, the Israeli concerned authorities did not approve the entry of the rich zinc painting material required to paint the galvanized steel doors in the plant, and their approval to access the required spare parts and chemicals for the internal laboratory of KY WWTP is still pending. They did not also approve the entry of the main construction materials and equipment required for the rehabilitation of pumping stations No. 08, 03 and 02 in Khan Younis for KY WWTP.

4.5 Utilizing the saved amount of fund allocated for providing the detailed design to cover the provision of the design review, pre-contract and construction supervision services/ reallocation of budget lines

Since 2006 to date, the UNDP's Project/Programme Manager has been managing the project's different tasks and activities, and the total amount of US\$ 150,000, allocated as per the project budget lines to cover the salaries of project engineers for 24 months, has been totally disbursed to cover the salaries of project staff by the end of December 2011, as seen in the financial report in section 3.

During the negotiations with the IsDB to sign the agreement of the additional fund committed by the Kuwait Fund, and aiming at bridging the financial gap concerning UNDP's direct implementation cost, UNDP approached the Government of Japan to revise the allocated fund to allow for the utilization of US\$ 300,000 for the UNDP direct implementation cost. The Government of Japan kindly approved utilizing this amount on 30 April 2013. Through final negotiations, this amount was modified to US\$ 370,000 allocated for the provision of the design review, pre-contract and construction supervision services for KY WWTP, as per the agreement signed between UNDP and the IsDB on 05 September 2013.



After evaluating the submitted proposals for the assignment of the provision of design review, pre-contract and construction supervision services for the construction of KY WWTP under RFP 2014-287, it has been found that the Artelia&UG consultant who attained the highest technical scores has the lowest financial offer amounting to US\$ 3,067,285. Whereas, the total allocated budget for this component as per the project's agreement between UNDP and the IsDB amounts to US\$ 1.37 million, and whereas the allocated/available contingencies from the Kuwait Fund for Arab Economic Development amounts to US\$ 4,725,480, UNDP approached the IsDB on 22 January 2015 to approve utilizing the deficit amount for this component from the project's allocated contingencies. On 26 February 2015, the IsDB issued an in-principle approval/no objection to cover the deficit amount from the donors' contributions after finalizing negotiations with the consultant. The negotiation was concluded on 27 May 2015 by scaling down the consultant's financial offer to US\$ 2,944,594 instead of US\$ 3,067,285.

The IsDB issued the written no objection to award the contract of the design review, precontract and construction supervision services for the construction of KY WWTP to Artelia and Universal Group consultant in the total amount of US\$ 2,944,594 on 02 July 2015. The IsDB requested the budget deficit for this component, amounting to US\$ 1,574,594, to be deducted from the donors' contributions, according to their percentage of contribution, and from the construction component mentioned in the UNDP and IsDB's agreement.

UNDP received the initial clearance from the IsDB's consultant (EMCC) on budget reallocation on 11 July 2015. The Government of Japan confirmed its agreement to utilize/reallocate US\$ 425,255 from their contribution allocated for the construction works to cover part of the deficit amount for this component. The Government of Japan issued their official approval on 10 September 2015. The IsDB issued their written no objection on the budget reallocation on 29 September 2015.

4.6 Impact of COVID-19 pandemic

Maintaining the operation of wastewater treatment plants is an essential factor needed to protect public health and combat the COVID-19 pandemic.

During the reporting period, the operation and performance of KY WWTP was successfully maintained without any interruption, and the quality standards for treated wastewater were met as required by the design. Disinfection measures against COVID-19 were taken inside KY WWTP as seen in the last two pictures of this report.

Nevertheless, the COVID-19 restrictions could impact and delay manufacturing, shipping, issuing the Israeli approvals and accessing the construction materials and equipment required for the rehabilitation of pumping stations no. 08, 03 and 02 in Khan Younis, as well as the spare parts required for the operation of KY WWTP, that could impact the operation of KY WWTP and delay the project's completion date.

It is also worth mentioning that, after completing the construction works and starting the one-year operation of the plant in November 2019, the inauguration ceremony for KY WWTP was planned to be conducted in February 2020 with the presence of the representatives of the GoJ and the Kuwait Fund, but the COVID-19 restrictions on travel and movement affected the initial plan and the ceremony was postponed.



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





Starting Excavation Works at KY WWTP Site on 13 and 18 April 2017





Starting Casting Reinforced Concrete for Admin Building and Plain Concrete for Aeration Tank on 17 May 2017



Casting Reinforced Concrete for the Foundation of the Aeration Tank on 20 June 2017





General Overview for KY WWTP Filled after Being Filled with Waste Water in September 2019



Waste Water Introduced to the Plant from the Inlet Pipe at the Pre-Treatment Building on 09 September 2019







The Pre-Treatment Building Under Operation up to June 2020





The Aeration Tank Under Operation up to June 2020



Clarifiers Under Operation up to June 2020



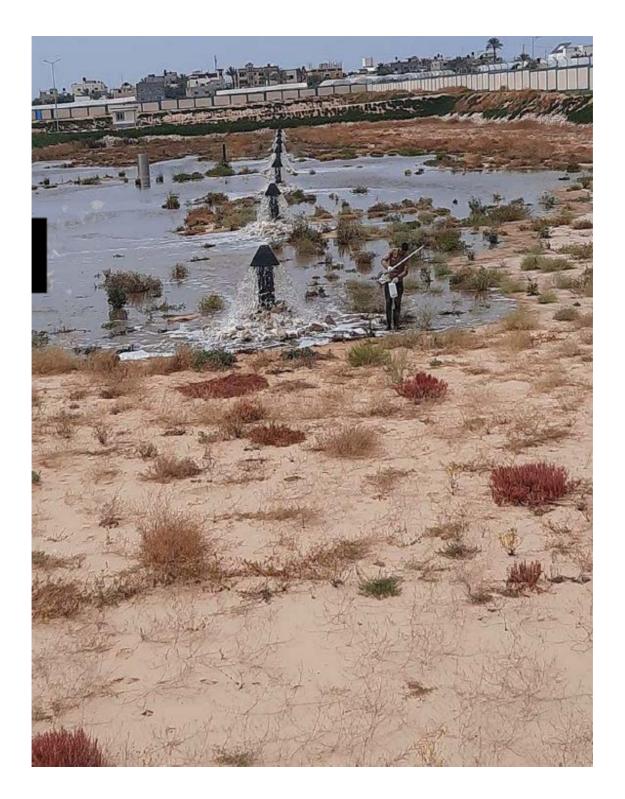


Sand Filter Under Operation up to June 2020



Drying Beds Filled with Sludge up to June 2020





Treated Effluent Pumped to the Infiltration Basins up to June 2020







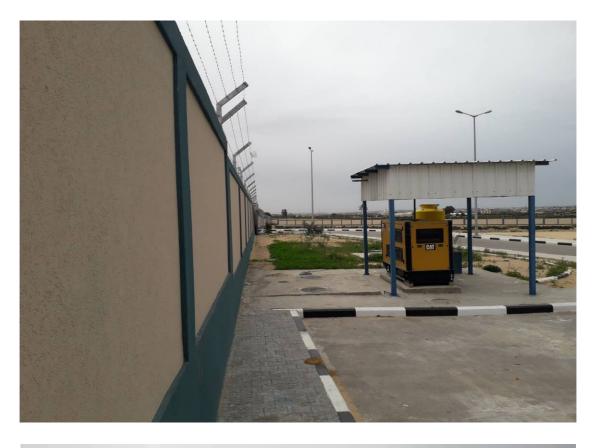
Ductile Iron Pipes Entered Gaza and Installed on Site for the Effluent Pressure Lines (CMWU Package) up to Completion in June 2020





Installation of HDPE Pipes and Interlocking Blocks Tetrapod Shape for Sea Outfall for the Effluent Pressure Lines (CMWU Package) up to Completion in June 2020







Boundary Wall for the Infiltration Basins up to Completion in January 2020





Installed Electrical Poles, Cables and Transformers of the Main Electrical Line for KY WWTP



Asphalt Work in Road No.14 in Al Fukhari in December 2019 up to completion in January 2020







Disinfection measures in KY WWTP against COVID-19

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



6. Report authorization by UNDP/PAPP

Reporting person and title:	
Ashraf Abu Shamala, Programme Manager	Aster
Reviewed by:	
Iman Al Husseini, Head of UNDP Gaza Office a.i.	E H
Supervisor's name and signature:	
Iman Al Husseini, Head of UNDP Gaza Office a.i.	- A
Date of submission: 24 November 2020	