

Project List:

Note: It should be noted that the following list of projects is divided into two parts:

<u>Part (1): INFRA ENGINEERING projects</u>					
No.	Date	Project	Services	Client	LE million
1.	1995-2005	Helwan University water supply and waste water collection system.	Data collection, site visits and detailed design for water supply network including booster station and elevated reservoir cap 1000m ³ in addition to gravity sewers and pump station serving the university head quarter plot.	Helwan University	10
2.	1995-1997	Wastewater collection for the open theater, Helwan University	Detailed Design for sewage collection and pump station	Helwan University	1
3.	1995-2005	Plumbing Design for the Helwan University Buildings and territories: Conference Hall Examination Building Laboratories (Collage of Science)	Detailed water supply and sewage collection. <u>Services Included:</u> water supply, sewage collection, firefighting, irrigation, water boosters and sewage pump stations	Helwan University	3

4.	1997	Kafr AlRawageh and Al-Taref waste water Collection and Treatment, Luxor, Egypt.	Data collection, preliminary report, detailed design for gravity sewers and pump station serving the two big villages at upper Egypt in addition to Oxidation Ponds for sewage treatment	Helwan University	45
5.	1997-2003	Royal City Infra structure designs, 6 of October city	Detailed design for water distribution network and waste water collection system, pump station and force main, in addition to Roads network design for the residential compound	6 October Company for Real-Esitate Development, (Consultant Dr. Sameh AlShazly)	50
6.	2003	Irrigation Water Feed system for The Rare Plants Garden, Sharm El Shaikh	Data collection detailed design hydraulic, structure, electromechanical, in addition to preparation of workshop drawings, preparation of tender documents and B.O. Q	Environmental Agency EEAA	3
7.	2005	Urban Planning and Utilities Bolak Aldakroor, Giza (In association with Faculty of Engineering, Mattaria, Helwan Univ.)	Data collection, installation of bulk flow meters, monitoring and preparation of flow recording report for Utilities Consulting office	Utilities, Dorsch Consult.	8

8.	2005	Urban Planning and Utilities for 245 Villages distributed in Delta Egypt for development and satisfaction of water needs, roads and wastewater collection and treatment facilities.	Data collection, review on population statistics and forecast, determination of water needs and wastewater collection and treatment requirement. Master plan for water supply and sewage treatment including budget estimation	Helwan University	1
9.	2006	Raswa Water Treatment Plant, Portsaid	Preparation of workshop drawings for piping & mechanical installations	Austrian Energy and Environment	2
10.	2007-2008	Beverly Hills Irrigation Pump station and networks	Preparation of the hydraulic and mechanical design for the irrigation pump station with 10 pumps in horizontal alignment and the plant is of capacity 0.6 m ³ /sec. In addition to irrigation network for the residential compound of Beverly Hills	Shaker Consulting & Utilities Consulting Bureau for SODECO Development.	20
11.	2010-2013	Rehana Compound, 6 of October city	Water, sewage, irrigation and roads networks designs in addition to water boosters, reservoirs and wastewater treatment plant	Egyptian Swiss Company	10
12.	2010-2014	Conrad Hotel, Marsa Allam infrastructure design, Huregada	Detailed design, water and sewage networks, water and sewage treatment plants	Investment Group - Touristic project	5
13.	2012	Evaluation of the contracting contract for the High Counsel for Universities	Technical and financial Evaluation for eight civil contractor contract applying point system methodology.	High Counsel for Universities	25

14.	2012	Infra-structure water supply /wastewater collection systems and plumbing Design for Helwan University Buildings and territories: Badr Hospital, Examination Building Laboratories of Science College, Sports Hall,...etc.	Detailed water supply and sewage collection in side structures and site layout services including: water supply, sewage collection, firefighting, irrigation, water boosters and sewage pump stations	Helwan University	3
15.	2014-2015	Abd El Nasser Social housing, Ismailia P. S	Sewage pump station electromechanical, Arch. And Structural detailed design	AC consulting engineer & technical services-sector to The National Organization for Potable Water & Sanitary Drainage NOPWAS	12
16.	2014-2015	Ras Al Bar new community P. S	Preparation of design documents specification, detailed, design Process, B.O.Q Hydraulic, structural, Architectural, Electro mechanical details and technical assistance during constructions Sewage pump station	AC consulting engineer & technical services-sector to The National Organization for Potable Water & Sanitary Drainage NOPWAS	12

17.	2014	Miet Ghamer Waste Water collection system	Technical assistant for construction of the un completed sewers, dewatering system, side supports and connection of the old existing sewers /pump stations to the new wastewater project.	AC consulting engineer & technical services-sector to center of engineering consultation training production CECTP to The National Organization for Potable Water & Sanitary Drainage NOPWASD	35
18.	2014	Marine design for Sea Shell Hotel	Data collection, hydrographical survey, tide and wind studies, environmental protection reports and detailed design for a new Marine for the resort.	Kawait Investment & Real-Estate Co.	25
19.	2014-2017	Abnoub social housing project, Assuit Governorate - Egypt	Preparation of design documents specification, detailed, design Process, B.O.Q Hydraulic, structural, Architectural, Electro mechanical details and technical assistance during constructions	Arab Contractors Asuit branch For the National Organization for Potable Water & Sanitary Drainage NOPWASD	17
20.	2015	Menia P. S	Sewage pump station electromechanical, Arch. And Structural detailed design.	AC consulting engineer & technical services-sector to The National Organization for Potable Water & Sanitary Drainage NOPWASD	10

21.	2015	Technology Valley wastewater treatment of Cap.10000m3/day	Design review and work shop drawings preparation for P.s, Rising main and WWTP of capacity 10000m3/day	Arab Contractors consulting engineer & technical services-sector. To Sinai Reconstruction Authority and Canal Cities	50
22.	2015	Mostaqbal water treatment & Intake	Preparation of full hydraulic, mechanical & civil design for the water treatment plant & intake including preparation of technical specification, workshop Drawings and bill of quantities.	AC consulting engineer & technical services-sector to The National Organization for Potable Water & Sanitary Drainage NOPWASD	120
23.	2015	Ghazy Gardens Residential Compound and Mall	Water supply, sewage collection and firefighting networks for 1000 housing unit and mall, design and construction supervision	Private sector Kuwait Investment Company, 5th settlement, New Cairo	30
24.	2014	Bostan WTP Extension from 1200 l/sec. to 1800 l/sec.	Detailed hydraulic, process, Arch.& civil design including preparation of tech.specs. & Workshop Drawings	AC consulting engineer & technical services-sector to center of engineering consultation training production CECTP to The National Organization for Potable Water & Sanitary Drainage N.O.P.W.A.S. D	120

25.	2015	Manazel Residential Compound and Mall.	Water supply, sewage collection and firefighting networks for 1200 housing unit and mall, design and construction supervision	Private sector Kawit Investment Company, 5th settlement, New Cairo	20
26.	2016	Mahalla WTP (800L/Sec)	Mechanical /process design assessment and Detailed structural design for the treatment units including shore intake, raw water pipe line 1000 mm diameter, pulsator clarifier, filter building, chlorine building, diesel generator building, workshop, chemical building, treated water pump station thickeners. -Tech. review for the mechanical and hydraulic design -Hydraulic design of the shore intake, raw water pump station and force main	Mitito electromechanical company for water purification. For the Holding Company for Water & Wastewater (H.C.W.W)	80
27.	2016	Sella WWTP 20000 m3/day	Tender Study, Detailed B.o.Q followed by detailed Arch. And structural design.	Egyptian contractors (Mokhtar Ibrahim) To the National Organization to Potable Water & Sanitary Drainage (N.O.P.W.A.S.D).	48
28.	2016	Water supply boosters for the new Administrative Capital of Egypt (New Capital)	Preparation of hydraulic, mech, electrical, Arch. & Structural detailed workshop drawings for 3 booster pump station	AC consulting engineer & technical services-sector TO the Construction Authority for Potable Water & Wastewater. (C.A.P.W)	100

29.	2016	Gabal Asfar Stage III Inception Chamber and Screw pump station of capacity 1.3 million m3/day	Detailed design and tender document preparation for transmission of 1.3 million m3/day from the inception chamber through Screw pumps and Culverts to feed the third stage (III) treatment line. Activities included data collection, surveying, boreholes, conceptual design report, preliminary design report, alternatives assessment and detailed design and tender documents	The Construction Authority for Potable Water & Wastewater. C.A.P. W	150
30.	2016	Participatory urban Development for Random Areas in Cairo, Giza & Qalubia	Data collection and detailed design/ tender document, evaluation, procurement and construction supervision for multi discipline projects including water supply wastewater collection, Roads, Lighting and solid waste collection. Activities in association with DORSCH Consult, Germany- Enviro-Consult & Adapt Egypt	The German International Organization for Funding of development projects in developing Countries GIZ, For Caro, Giza and Qalubia governorates	80

31.	2017	Alexandria West. WWTP feasibility study & upgrading extension in Association with Dorsch consult - Enviroconsult	Data collection field studies wastewater analysis flow measurement assessment of wastewater Treatment Technologies assessment of sludge Treatment Technologies detailed design economic studies in addition to assessment and upgrading of the existing facilities	European Investment Bank EIB + Stake holders (CAPW – HCWW-MHUNC-ASDSCO)	2000 000
32.	2017	New Aswan WTP Extension (25000m3/day)	Preparation of extension drawings & specifications for the civil / Hydraulic & electromechanical equipment's	AC consulting engineer & technical services-sector TO Aswan Reconstruction Authority MHUNC	100
33.	2017	6 October West WWTP extension capacity 150.000 m3/day stage 2	The project is the second phase of wastewater treatment plant in west 6th of October city, with capacity of 150,000 m3/day (secondary and tertiary treatment) Concept design review, Detailed process and hydraulic calculation, Power consumption calculations, power supply and installment/control /SLD preparation, preparation of E/M tender document, technical evaluation, procurement & Preparation of detailed construction workshop drawing	In association with Arab Contractors consulting engineer & technical services-sector TO the Construction Authority for Potable Water & Wastewater. CAPW	1300

34.	2017	10 th of Ramadan intake and boosters pump stations (second stage)	Preparation of electro mechanical specifications electromechanical equipment's & drawings	AC consulting engineer & technical services-sector TO the Construction Authority for Potable Water & Wastewater. CAPW	680
35.	2017	Gabal Asfar Stage III Inception Chamber and Screw pump station of capacity 1.3 million m3/day	Construction Supervision on the daily activities of the main contractor (tallaat mostafa) for the conveying tunnel (2.7× 3.2) on -12 m.depth, 10 screw pumps of cap 1.3 million m3/day , screens and open channel 3× 5m for 204 k.m	The Construction Authority for Potable Water & Wastewater. CAPW	400
36.	2017	Abu Ramad & shalateen fishing ports.	Preparation of electromechanical equipment's specifications & evaluation of Technical and financial of contractors. The project consist of compact unites for waste water treatment system,	AC consulting engineer & technical services-sector	600
37.	2017	Kafer al medawer pump station	Preparation of Detailed hydraulic, Arch. & civil design including preparation of Technical specification. For sewage pump station (cap.160 L/Sec	AC consulting engineer & technical services-sector TO the National Organization for Potable Water & Sanitary Drainage NOPWASD	15

38.	2018	Osim WTP capacity (60.000-120.000m3/day)	Detailed civil design (structural, architecture and electrical works) for the treatment units including shore intake, raw water 2 pipe line 700 mm diameter, In addition to Tech. review & support for the mechanical and hydraulic design	Arab contractor – Helwan branch for The Construction Authority for Potable Water & Wastewater. CAPW	160
39.	2018	Ras Albar ground tanks.	Structural design of 2 ground reservoirs capacity 5000 m3 in addition to E/M specification for extension of the existing Booster with addition capacity of 300 L/Sec & Diel Generators / Transformers.	Arab Contractors, North delta Branch to the National Organization for Potable Water & Sanitary Drainage NOPWASD	30
40.	2018	Kafer shoker W.T.P capacity 45.000 m3/day	Detailed civil design (structural & architecture) for the treatment units including shore intake, raw water 2 pipe line 700 mm diameter, In addition to technical review & Technical support for the mechanical and hydraulic design	Arab contractor –east & middle delta branch for The Construction Authority for Potable Water & Wastewater. CAPW	160
41.	2018	Kom ashfeen W.T.P extension 52000 m3/day	Preparation of shop drawing of structural and architecture drawing for the planet units	Samcrete (For the Construction Authority for Potable Water & Wastewater. CAPW)	190

42.	2018	Barakta W.W.T.P capacity 7.500 m3/day	Construction Supervision on the daily activities (Civil / EM of the main contractor Arab authority for manufactory (Army sector)	The Construction Authority for Potable Water & Wastewater. CAPW	100
43.	2018	AL alameen infrastructure Zone B3	Design Review preparation of shop drawings of infrastructure networks (Potable water, waste water, storm drainage, irrigation) In addition to infrastructure of AL Alamain university	PETROJET (Contractor for New Communities Authority NUCA)	100
44.	2018	Meet Ghamer Waste water Collection Master Plan Updating & Desired Projects	Preparation of Updated Master Plan and Preparation of design drawings of sewage networks & P.S. of six villages at Meet Ghamer city and extension of Elemam Elshafeey P.S. (Main P.S) of the city of Miet Ghamer	Arab contractor – north delta branch for NOPWASD	60
45.	2019	Shebin El Kanater W.W.T.P. capacity 65000 m3/day	Design of internal Service including (Sewerage, Water, Supply, Firefighting & Storm Water Collection)	Nasr City Company For CAPW	100

46.	2019	Emyay W.W.T.P. capacity 20000 m3/day	Detailed design (structural, architectural & mechanical) for the treatment units and design of internal Service networks	Nasr City Company For CAPW	134
47.	2020	Integrated sewage of Dafriya village - Kafr Elsheikh	Preparation of preliminary design report and detailed design drawings, technical specification of sewage network, P.S. and forcemain line of Dafriya village.	Al Mohandes Company for General Contracting For NOPWASD	34
48.	2020	Integrated sewage of Khadmiya village - Kafr Elsheikh	Preparation of preliminary design report and detailed design drawings and technical specification of sewage network, P.S. and forcemain line of Dafriya village.	Al Mohandes Company for General Contracting For NOPWASD	21
49.	2019	New El Mansoura W.W.T.P. capacity 120.000 m3/day	Preparation of preliminary report, hydraulic & mechanical calculation and detailed design drawings (hydraulic – mechanical – civil - electric) in addition To T.OR & Civil / Mech B.O.Q	Arab Contractor Campany - For NUCA	150

50.	2020	Integrated sewage of Bani Soliman village – Bani Suief	Design review & Preparation of shop drawings of sewage network, P.S. and forcemain line of Bani Soliman village.	EL Nasr Company (Egico) For NOPWASD	21
51.	2021	Hyaat Karimah-Alfayuwu Governorale Villages (Allocatedat ITSA, Yosef ALSEDEEK Centers (47 Villages + 8WWTP'S)	Preparation of Master Plan– clustering, Preparation of Inception report, preliminary design report in addition to preparation of design drawings and technical specification of Gravity sewers networks, Pump stations, force mains , wastewater treatment plants including preparation of construction drawings for civil - mechanical designs for the projects components, (47 Villages + 8 WWTP'S)	The National Organization for Potable Water & Sanitary Drainage NOPWASD	1000.000

52.	2021	<p>Helwan Wastewater Collection and Treatment Project (Including Main Trunk Sewers, Pump Stations, Rising Mains, New WWTP of Cap. 250,000 m3/day tertiary treatment -Sludge Digestion and Energy Recovery, upgrading of the existing WWTP to tertiary treatment with sludge digester and in addition to Re-use requirements at AlSaff canal)</p>	<p>Feasibility study was conducted to review, verify and update the cost estimate of the required project components. Activities conducted by INFRA Engineering included:</p> <ul style="list-style-type: none"> -Verification of the catchment areas and generated wastewater flows -Verification of the served population -Assessment of the current situation of the on going WWTP and Pump Stations -Assessment of the different project Scenarios -Detailed sizing and dimensioning of units and project elements after detailed process and hydraulic calculations were conducted -Detailed power consumption/cost analyses -Detailed BoQ for civil and E/M works -Cost Analyses and Funding requirements -ESIA Part 1 	<p>AFD, EIB for the Construction Authority for Water & Wastewater (CAPW)</p>
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53.	2021	Hyaat Karimah- Qary Qalyubia 4 Villages	Design review & Construction Supervision on the daily construction activities of Gravity Sewage Networks, Pump Station & Force Mains For No. of four villages named: Arab Al Shouara Kom AL Samn Al Gaafraa Al Salmania	The Construction Authority for Potable Water & Wastewater. CAPW	250
54.	2022	Extension of Fowa WWTP Cap. 20000 m3/day	Detailed design of Process, Hydraulic - Civil & Mechanical Works for Activated sludge process WWTP	The National Organization for Potable Water & Sanitary Drainage NOPWASD	70

Part (2)

Part (2) Represents the personnel experience of the founder as he was completely responsible for the data collection, design , management of design activities, technical support, meetings, discussions and contracting through being one of the founders and the main designer and General Manager for UTILITIES Consulting Engineering Bureau.

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The CV of the projects itself is considered to be UTILITIES projects

No	Date	Project	Service	Client	Value (M.L.E)
1	1992	Extension of Banha WWTP, Benha City, Qalubia Governorate, Egypt	Detailed design for extension of treatment plant of cap 60000 m ³ /d	Arab Contractors Company for National Organization for Potable Water and Sanitary Drainage (NOPWASD)	50
2	1989-1992	Zafta Water Treatment Plant Gharbia, generating set for the plant of capacity 200 - 400 lit/sec	Detailed hydraulic design of WTP of capacity 200 - 400 lit/sec.	Arab Contractors Company for NOPWASD	20
3	1989-1992	Massarett Nassan Water Treatment Plant, Beni Suef Governorate, Egypt	Hydraulic design for WTP of capacity 200 - 400 lit/sec.	The Industrial and Engineering Enterprises Co. for NOPWASD	15
4	1989-1992	Beba Water Treatment Plant, Beni Suef Governorate, Egypt	Data collection, hydraulic, mech., elec., architectural, and civil design of capacity 200 - 400 lit/sec.	Arab Contractors Company for NOPWASD	15
5	1989-1992	El-Fashan Water Treatment Plant, Beni Suef Governorate, Egypt	Data collection, hydraulic, mech., elect., architectural, and civil design of WTP of capacity 200 - 400 lit/sec.	Arab Contractors Company for National Organization for Potable Water and Sanitary Drainage (NOPWASD)	15
6	1989-1992	Irrigation Pumping Station Project for land reclamation in Upper Egypt	Design of civil works of 7 irrigation pumping stations with delivery pipelines and ground reservoirs.	Egyptian Contractors Companies (Mokhtar Ibrahim & Nasr General Company for Contracting)-Ministry of Reconstruction	50

7	1989-1996	Raw Water Pipeline from Kantara West - Port Said , Egypt	Detailed design for new raw water intake and pumping station with a capacity of 400000m ³ /day. Two delivery mains with a diameter of 1500 mm and a length of 50 km. in addition to massive storage open ground reservoir of capacity 50000m ³ at Raswa Water Treatment Plant in Port Said.	Societe Egyptienne d'Entreprise for National Organization for Potable Water and Sanitary Drainage (NOPWASD)	150
8	1989-1997	Kafr El-Sheikh Wastewater Project (J.V. with others), Kafr El-Sheikh Governorate, Egypt (Partial Activities for Dr.M.Ashmawy to complete the project by the J.V)	Master plan and feasibility study for the sewerage project at Kafr El-Sheikh Governorate in association with KESCON	NOPWASD financed by KFW	350 EU
9	1989-1990	Lowering ground water level of the Islamic monuments & Mosques , Cairo, Egypt	Studies, design for means of lowering the underground water level. The project consists of gravity sewers, pump station and force mains (16 monuments).	The Center of the Islamic Buildings, Dr. Saleh Lamie for the General Organization of Monuments.	5
10	1992-1994	Water supply project for Assuit Cement Company , Assiut, Egypt	Detailed design of civil, mechanical and electrical works.	Assuit Cement Company	50
11	1994-1999	Tanta W.W.T.P, extension from 90000 m ³ /day to 150000m ³ /day Gharbia Governorate, Egypt	Preparation of tender specification, detailed design Process, Hydraulic, structural, Architectural, Electromechanical details and technical assistance during construction (Activated sludge process)	Nasr General company For Contracting, NOPWASD	150

12	1995-1997	Quena- Safaga Water supply Project	Data collection, surveying works technical studies, design of Mech. Elect. and civil works and specifications for more than 47 Km of pipe lines and boosters with diameters from 400 to 600 mm.	Industrial Project and Engineering Company for NOPWASD	44
13	1995-1999	Asuit water treatment plant.	Complete hydraulic, Electrical-Mechanical, Arch. & Structural design for WTP of cap. 600/200 l/sec. in addition to water distribution network analysis and detailed pipe network design.	Arab contractors Asuit Branch - NOPWASD	160
14	1995-2000	Armant water treatment plant.	Complete hydraulic, Electrical-Mechanical, Arch. & Structural design for WTP of cap. 600/200 l/sec. in addition to water distribution network analysis and detailed pipe network design.	Arab Contractors South Delta Branch for NOPWASD	80

15	1995-1996	CAIRO East Bank Waste Water Master Plan Upgrading & Gabal El Asfar WWTP Extension. Full coordination, contract negotiations, consortium management activities conducted by Dr. Ashmawy	Data collection, Master plan upgrading and tender document preparation in association with the main consultant SOGREAH. Including production preparation of conceptual reports, design reports, updated master plan, culverts extension and tender documents including full details of 500000 m ³ /day WWTP at Gabal Alasfar.	Greater Cairo for Construction of Waste Water Project – CWO financed by the FRENSH Loans	900
16	1996-2000	Gohayna water treatment plant.	Complete hydraulic, Electrical, Mechanical Structural design for water treatment plant 400/800, in addition to network and detailed pipe network design. Technical assistant during construction and periodical supervision was provided	Arab Contractor Asuit Branch for NOPWASD	140
17	1997-2000	Extension of Zakazik Waste Water treatment & master plan of collection networks, pump stations and WWTP of capacity 60000 to 80000)	Master plan for sewage collection system, pump station and treatment plant for Zagazik city Sharkia Governorate including population and wastewater forecasting, Hydraulic calculations- Preparation of conceptual and final design reports, full Hydraulic, civil & electromechanical detailed drawings	Arab Contractors East Delta Branch for NOPWASD	240

18	1997-2004	West Asuit Sewerage System and Extension of Asuit WWTP from 30000 to100000m3/day	Design of sewage collection system, and pump in addition to WWTP Extension. including: Preparation of conceptual and final design reports, full Hydraulic, civil & electromechanical detailed drawings and B.O.Q and site technical support	Nasr General Company for Contraction for NOPWASD	130
19	1997-1998	Police Academy Sewerage Design for Training Zones.	Interior sewerage system design for 3 separate individual training sites located at Katamia, Khayalaa and Haggana zones.	POLICE ACADEMY	3
20	1998-2009	Sewage project for 15 villages at Kafr elsheakh governorate (In association with GITEC consult - Germany)	Master plan for sewage collection systems, pump stations, rising mains and treatment plant for 15 villages at Kafr Elshaikh Governorait	NOPWASD (funded by KFW Germany)	350
21	2000-2009	Urban development of Manshit Naser (EZBET BEKHET) – CAIRO. <u>IN ASSOCIATION WITH DORSH Consultant & GITEC</u>	Upgrading of water networks, Design of firefighting system water feeding system, Sewerage system, pumping station, Rising mains and Roads design.	Manshet Naser District Cairo Governorate (Funded by KFW)	20
22	2000-2004	Esna waste water project (Aswan governorate)	Waste water collection system consisting of 6 pump station, gravity sewers, pressure lines in addition to WWTP of capacity 30000 m3 /day – oxidation ponds process	The National Organization for Potable Water and Sanitary Drainage NOPWASD	120

23	2001-2003	Extension of Zefta water plant of capacity 200/400 l/sec	Full detailed hydraulic, mechanical, structural, architectural design of Clari-floculators, filter house, underground reservoir, raw and treated water pump stations	The National Organization for Potable Water and Sanitary Drainage NOPWASD	120
24	2001-2005	Extension of El Fashn water plant of capacity 200/400 l/sec	Full detailed hydraulic, mechanical, structural, architectural design of Clarifloculators, filter house underground reservoir, raw and treated pump stations	The National Organization for Potable Water and Sanitary Drainage NOPWASD	25
25	2000-2002	Al Remaya housing area giza governorate	Complete design of infra structure utilities (water network, water tanks, sewage system, pumping stations, rising means, in addition to electrical and lighting/telephone networks and roads design	Giza Governorate	17
26	2002-2007	Extension of ElAbbassa water treatment plant from 1250l/sec up to 1750l/sec (Sharkia governorate) and the distribution networks.	Full detailed hydraulic, mechanical, structural, architectural design of extension units including: Clarifloculators, filter house underground reservoir, raw and treated pump stations	The National Organization for Potable Water and Sanitary Drainage NOPWASD	160
27	2003-2005	Extension of AIReswa, Portsaied , water treatment plant capacity of 125000m ³ /day (port said governorate)	Full detailed structural, architectural design of Clarifloculators, filter house underground reservoir, raw and treated pump stations	Suiz canal Authority	80

28	2003-2008	Extension of Damanhour WWTP From 90000m ³ /day to 160000m ³ /day (Behaira governorate)	Updating of master plan of waste water collection systems, pump station, rising mains and WWTP extension from 90000 to 150000 m ³ /day including Full detailed hydraulic, mechanical, structural, architectural design and specification (Activated sludge process) in addition to construction supervision and technical assistance	The National Organization for Potable Water and Sanitary Drainage NOPWASD	150
29	2003-2008	Alkap –Aoum Khalaf waste water project-port said governorate	Sewerage system, pump stations, force main and WWTP of capacity 6000 m ³ /day	Port said governorate	37
30	2003-2008	Extension of Kantara Raw water line (200000 m ³ /day) (port said governorate) (AS built Drawings is completed by Enoia Utilities)	Raw water feeding line dim 1500 mm of 46 km including surveying, profile preparation, crossing, valve chambers, water hummer, calculation & pump station extension (turbine pumps)	Arab Contractors Canal Branch for NOPWASD	200
31	2004-2007	Extension of Elkantara water treatment plant with capacity of 400-800 l/sec	Assessment of the current situation of the existing plant, Preliminary report, detailed hydraulic, mechanical, structural, architectural design of the proposed extension units and coordination with the plant operation requirement.	Arab Contractors Canal Branch for NOPWASD	40

32	2004-2008	Water treatment plant of Kelein and its networks with capacity of 400-800 l/sec	Process, Hydraulic, Structural & Arch designs of treatment and operation units including raw and treated pump stations.	NOPWASD	50
33	2004-2013 Only	Water treatment plant of Dar Elsalam with capacity of 700/1400 l/sec and the water distribution networks of 120 Km with diameters ranging from 300 to 1400 mm. (<u>The project is completed by Enoia Utilities</u>)	Process, Hydraulic, Structural & Arch designs of treatment and operation units for the intake and the treatment plant including preparation of civil and electromechanical specifications, tender documents and B.O. Q	Arab Contractors Asuit Branch for NOPWASD	70
34	2005-2013 Only	Dayroot Water Treatment Plant Cap. 600-1200 l/sec. (project is completed by Enoia-Utilities)	Process, Hydraulic, Structural & Arch designs of water treatment facilities in addition to preparation of Tech. specifications.	Nasr General Company for Contracting-NOPWASD	200
35	2005	Extension of Hamoul WTP from 600-1200 l/sec	Process, Hydraulic, Structural & Arch designs of water treatment facilities in addition to preparation of Tech. specifications and construction tech. assistant	Societe Egyptienne d'Entreprise for NOPWASD	50
36	2005	Extension of Fayed WTP 600-1400l/sec	Full detailed hydraulic, mechanical, structural, architectural design of treatment facilities including intake, Clarifloculators, filter house underground reservoir, raw and treated pump stations, sludge tanks and sludge pump station.	Arab Contractors Canal Branch-NOPWASD	60

37	2005u p to 2013 only	Extension of Fakous WTP of capacity 600/1200sec and distribution networks (project is completed by Enoia-Utilities)	Detailed design of water treatment plant including coordination with the existing facilities	Arab Contractors East Delta Branch- NOPWASD	75
38	1993- 2002	Adliya- Port Said Water Line of 800/600 mm -46 KM	Main line from Adliya WTP to Port Said city as a strategic water feed line including Elmanasra Booster Station, design of electrical control and the anti-hummer system	Arab Contractors North Delta Branch- NOPWASD	140
39	2002	Updating of the Master plan for water distribution pipe lines and WTPs of El Sharkia Governate	Data collection of the existing conditions and requirements of water demand followed by determination of the required treatment plants, detailed design of water distribution networks, elevated tanks, Boosters.	Arab Contractors East Delta Branch- NOPWASD	300
40	2007	El Marg water treatment plant of capacity 600000 m ³ /day	Architectural & structural design of treatment units.	Arab Contractors- Bridges Branch- CAPW	600
41	2007	Covering of El khosoos Drain -Cairo	Design of the irrigation structures and multi vent culvert required for Covering of El Khosos Drain of 2 km long capacity of 2.6 million m ³ /day in addition to construction supervision	Construction Authority for water and Waste Water (CAPOW)	90
42	2007	Water treatment plant of Geziret Edahab-Giza	Design review and site supervision for extension of Geziret Edahab water treatment plant, capacity of 150000 m ³ /day	Construction Authority for water and Waste Water (CAPOW)	90

43	2007	Master plan for Water supply and Waste Water collection and Treatment for Kafr Eshaikh Governorate	Full management of the activities of the contract including establishment of branch office, Data collection, evaluation of current services and facilities conditions, land use applications, High priority projects & complete master plan up to 2050 for water and waste water projects including financial programs and economic studies.	The Holding Company for Water & Wastewater HCWW	4000
44	2008	Construction Supervision for water and waste water projects at five centers at Behaira Governate (pop 4000000 cop)	Management of the contract, recruitment establishment of branch office, follow up visits, coordination meetings and presentation for over 15 water & waste water projects including all activities, water supply, water treatment, waste water collection, pump station, and rehabilitation of several wastewater treatment plants.	The National Organization for Potable Water & Sanitary Drainage NOPWASD	3000
45	2009u p to 2013 only	Helwan Master Plan (Design and construction supervision) (project is completed by Enoia –Utilities)	Master Plan Preparation for wastewater collection systems, pump station and treatment plant of capacity 500000 m³/day	Construction Authority for water and Waste Water (CAPOW)	750

46	2009	Construction Supervision for water and waste water projects at Kafr EL Shaikh Governate	Management of the contract, recruitment establishment of branch office, follow up visits, coordination meetings and presentation for more than 25 water & wasteWater projects.	The National Organization for Potable Water & Sanitary Drainage NOPWASD	1000
47	2009	ALKasaseen Waste Water Project	Waste Water Collection, Pump Station, force main & WWTP 10000 m ³ /day	The National Organization for Potable Water & Sanitary Drainage NOPWASD	40
48	2009u p to 2013 only	10th of Ramadan Raw water pipe lines (project is completed by Enoia -Utilities)	Design and Intake Boosters & 2 pipelines each od diameters 2500m to carry 1.2 million m ³ /day (Hydraulic, Mechanic, Structure, Control , Monitoring- water hummer, ... etc)	Construction Authority for water and Waste Water (CAPOW)	1300
49	2009-2013	Extension of Zakazik WWTP from 80000m ³ /day to 171000m ³ /day (Sharkya governorate)	Updating of master plan for waste water collection systems, pump station, rising mains and WWTP extension from 80000 to 171000 m ³ /day including Full detailed hydraulic, mechanical, structural, architectural design and specification (Activated sludge process) in addition to construction supervision and technical assistance	Arab Contractors East Delta Branch- NOPWASD	300