A.N. KAPLAN
Engineering & Projects

A.N. Kaplan Engineering & Projects
Company's Profile

Main Office:
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Director and owner: Eng. Arnon Kaplan

Education: Soil and Water Engineer, Technion Institute, Haifa , Graduated 1980. From 1980 until 1984 – practiced in an Engineering Office in Tel-Aviv From 1984 till today – A.N.Kaplan – Private owned office.

Professional experience:

Vast experience in planning, supervising and managing water systems and water treatment systems, soil, drainage, irrigation, sewage, area development, farms and systems worldwide.

Over 32 years experience I planning and managing this sphere in more than 70 countries worldwide, planning projects in assorted scopes.
Samples of the above can exemplify further on.

We'll be more than happy to supply any additional material and/or information required according to demand.

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A) Main Business Spheres

1. Planning, administrating and supervising agricultural projects in nearly all types of crops - flowers, vegetables, orchards, spices, vines for eating and wine, etc. Animals- milking cowshed, cattle breeding, sheep, etc. Birds- laying , stuffing, etc.
2. Planning, administration and supervising intensive projects, mainly greenhouses for vegetables and flowers, including soiless bedding.
3. Planning, administration and supervision of central water Systems - transporting and supplying water. Including – Pumping stations, pipes, command and regulation systems, division, etc.
4. Planning, supervising and managing water-collecting systems reservoirs, pools and water supply control systems.
5. Planning, administration and supervision of irrigation systems.
6. Planning, administration and supervision of drainage systems and protection - agricultural and urban areas, rivers, streams, canals, etc.
7. Planning, administration and supervision of infrastructure works.
8. Planning, administration and supervision of projects for breeding fish for eating and for aquariums - semi-intensive, intensive and super-intensive.
9. Planning, administration and supervision draining and irrigation for golf courses, football fields, parks and gardens in general.
10. Planning, administration and supervision of sewage systems.

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B) Main planning stages:

The office has rich experience in the various planning stages, starting from-

1) A feasibility study- collecting material, studying the site's data, area and state data, local and world market data and conducting plan surveys including economic analysis, sensitivity analysis and preparing the material suitable to the client and the financer's needs.
2) Master plans- to the private and the public client in a scope of location, settlement, region etc., and this in the detailed spheres in section A above.
3) General plans- first stage for planning can be a general planning with an overview on the general project and cutting it to execution stages.
4) Specified planning for execution – in all detailed issues in section A above and all project components – starting from plans, details and figures, via technical figures and execution tenders.
5) On site and overall supervision – according to client needs and project needs.

C) Managing and accompanying the crop

In TURN KEY PROJECT case and/or according to client's request – agricultural professional accompanying, in the crop's spheres, water and irrigation, soil, insects, post harvest, electricity, general managing and manpower managing, including training the local staff in the first years of project operation.

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D) The company practiced Projects in the following countries:

Israel, Jordan, Egypt, Nigeria, Ghana, Spain, Russia, The republics of the former U.S.S.R, Turkey, Thailand, Australia, India, Dominican Republic, Ecuador, Peru, Venezuela, Mexico, Colombia, Argentine, Chile, Uruguay, USA, Indonesia, Burma (Myanmar) Ghana, Togo, Germany, Jamaica, China, Angola, South - Africa, Sari-Lanka, Portugal, Guinea, Canada, Botswana, Romania, Rwanda, Papua New Guinea, Malawi, Tanzania, Senegal, Ukraine, Ethiopia, Portugal, Vietnam, Dubai, etc.

D) Samples of projects and issues in which the company was involved:

Since the list of projects is large, following a number of examples from each category:

1. Agricultural Projects and developing vast areas:

- Agricultural farms in the Dominican - 1,100 Ha + 500 Ha – sweet melons, bananas and organic bananas farm in a scope of hundreds of hectares.
- Agricultural farms in Uzbekistan - 1,000 Ha , 600 HA, 400HA- cotton.
- Agricultural farms in Uruguay - 1,600 Ha - citrus fruit
- Agricultural farms in Argentine - 100 Ha to 2,000 Ha - different types of crops - cotton, olives, grapes for wine and eating, citrus groves, avocado, almonds, peaches, pears, dates, etc.
- Agricultural farms in Peru, among others – 3000HA Asparagus + Citrus.
- Development of the Caxito Valley in Angola (Approximately 4000Ha).

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- Agricultural farm in Africa- Angola, Nigeria, Ghana and others in various spheres.
- Developing an area of 70,000 ha to grow deciduous crops, Rio Negro state, Argentina (apples, peaches, pomegranates, almonds, blueberry and Raspberry and more) including area planning, drainage, infrastructure - roads, electricity , communication etc. planning water supply – pumping (50 m^3 per second), conveyance, water supply and collecting to the farms, agricultural developing and crops, etc.
- Area developing of 25,000 ha to grow deciduous, vegetables and greenhouses, Neuquen state, Argentina including planning as specified above, when the area was planned for division of farms with 500 ha each to settle inhabitants from the region.
- Developing area to agricultural area and agricultural crops in La Pampa, Argentina in a total scope of about 10,000 ha, carried out in stage A – 1100 ha.
- Planning an integrated agricultural project in a scope of 20,000 ha , including about 1500 ha vegetables, 3100 ha plantations and the rest field crops, in Botswana , about 50 Km. from Zambezi (water supply from the Zambezi).
- Growing Sugar cane to Ethanol, Colombia - _____, 10, 000 ha.
- Growing Sugar cane, Senegal - _____, 7, 000 ha.
- Inhabiting a village of 300 families +3 ha per family + 200 ha vegetable growing by drip +700 ha field crops in

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center pivot +3200 ha farms for various crops , a total of 5000 ha, Quimina, Angola- 5000 ha.

- Castor growing project for oil (+biodiesel), Ethiopia – Dire Dawa-20,000 ha.

2. Intensive Projects

- Vegetable greenhouses in Argentina (1 ha - 20 ha)
- Flower greenhouses in Ecuador - 3Ha - 30Ha
- Flower greenhouses in Kenya - 5Ha
- Flower greenhouses in China - 1Ha - 5Ha
- Flower and vegetable greenhouses in India - 2Ha - 10 Ha
- Flower greenhouses in Israel - 20Ha - 23Ha
- Vegetable greenhouse in Jordan – 40HA
- Super-Intensive research and demonstration Prj. (India, Israel, China)
- Vegetable greenhouses (30 Ha) + open fields in Indonesia
- A nursery in Uzbekistan.
- Demonstration farm of the state of Israel, India, and China.
- Flowers and vegetables greenhouses in Ethiopia (5-35 ha).
- Greenhouse Project in Russia (6 ha X 2)
- Vegetables greenhouses (glass) in Ukraine , 10 ha
- Vegetables greenhouses (plastic) in Ukraine , 25 ha
- Seed farm ("greenhouses"), Syngenta in Israel, 4 ha (GSPP STANDARD).

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- Others

3. **Water Systems**

- Water supplying system - 10,000 m^3/h - from San Juan River in Argentine.
- Water supplying system - 15,000 m^3/h - from river in Venezuela.
- Water supplying system - 5,000 m^3/h - from a lake in Kazakhstan.
- Water supplying system with drain water with volumes of thousands of cubic meter per hour in Israel - Drain Water Jerusalem, etc.
- Water canals – 27 m^3/sec, – 52 m^3/sec, - Mendoza, Argentina.
- Water supply system for 12,000 Ha in Dominican.
- Water supply system for 4,000 Ha in Angola.
- Water transport in dozens of m^3/second perimeter in the north of Argentina.
- Water supply systems to wide agricultural areas in a scope of hundreds of hectares in other countries**.**
- Planning water systems to urban settlements – cities, rural villages, etc.

- **Developing water sources:**

  A.N.Kaplan has rich experience in developing water sources of various types such as –

  - Underground water and executing wells.

  - Rivers, streams, permanent and seasonal flows, including executing surveys, analyzing basins and planning water storing.

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- using water springs, crestic flowing water, etc.

Using sewage, treating sewage and using greywater for irrigation.

The company carried out surveys in various assorted scopes – starting from local (private and public) , till surveys of vast developmental areas, both in arid areas, semi-arid , as well as tropical areas, etc.

This CV demonstrates the company's activity in areas and places where it carried out works , analysis and development plans in these fields

4. Irrigation Systems

All types of irrigation systems from small ones of one hectare to thousands of hectares. Same in drips, sprinklers, spraying, mobile lines, center-pivot (including the development of an irrigation machine.

5. Drainage Systems and Protection

* Drainage systems for thousands of hectares of agricultural Areas in Israel.
* Drainage systems for agricultural farms in the Dominican Republic (hundreds and thousands of hectares)
* Drainage systems for farms in Argentine. (Hundreds and thousands of hectares)
* Protective embankments against flooding in Argentine.
* Underground drainage systems for golf, soccer and other projects. (also planned a large tourist attraction in Israel - Mini-Israel).

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* Drainage and protection systems in farms in Peru (hundreds and thousands of hectares).
* Plans for preparation of streams in Israel.
* Draining an agricultural valley in Angola (4000 ha)
* Draining, protecting to agricultural farms worldwide in a scope of dozens and hundreds of hectares
* Our company specializes in underground drainage, on surface drainage, open conveyors (canals) and closed conveyors (assorted pipes), starting master plans, via general planning till detailed planning and planning for execution.

6. Infrastructure works

- Roads
- Different types of surfaces
- Mainly in agricultural projects and developmental areas.

7. Fish and aquaculture(ponds, pools, lakes and reservoirs):

- Intensive - 500 tons per year - Ein Tamar, Israel.
- Intensive - 250 tons per year - Mashave Sadeh, Israel.
- Intensive - 250 tons * 10 per year - Venezuela
- Breeding fish project - Missiones, Argentine.
- Decorative fish project , Hazeva, Israel (including water plants crops pools and integrating algae).
- Fish research station (Arava, Israel).
- Growth project of water plants in Israel.
- Breeding crocodiles projects, Arava, Israel
- Others.

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8. Golf and Gardens (Landscapes)

- Golf course in Israel - 18 holes.
- Golf course in Uruguay - 18 holes.
- Golf course in Egypt - 18 holes.
- Golf course in Kenya - 18 holes.
- Mini project - Israel
- Irrigation to the Bahai- gardens, Haifa.
- Others.

9. Sewage Water

* Sewage water systems on villages/ towns in Israel.
* Sewage systems – villages and farms in Angola.
* Sewage system to a neighborhood in Abuja, Nigeria

This was only a slight detailing of the office's activities – we'll be happy to add if required.

10. Specifically relating to India:

- Planning a demonstration farm project of the state of Israel, Pusa, New Delhi – Intensive growing farm in greenhouses to flowers and vegetables, commanded and fully climate controlled.
- A farm for growing flowers and vegetables in Calcutta.
- About 1500 ha perimeter farm for growing industrial vegetables and drying.
- Cotton growing farm.
- Planning irrigation systems in large perimeters to sugar cane.

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11. Specifically relating to Angola:

- An agricultural farm + research and guidance center in Sequele (greenhouses for vegetables + nursery greenhouse + open field crops + laying chickens and stuffing poultries.
- Agricultural farm to the internal policeman center M.C.O.
- Agricultural farm for vegetables and plantations, Catinda
- Agricultural farm to field crops, Wacu- Congo
- Feasibility study and general planning to field crop farm in large perimeters (thousands of ha) in Sombe.
- A feasibility study for the execution of greenhouses and open field crops in Catinda.
- Planning the Caxito River Valley (about 30000 ha) to assorted crops – including water conveyance, drainage and irrigation.

WACU CUNGO Project, Angola

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Quimina Project, Angola

Planning a village for 300 families, to each family an agricultural farm 3 ha scope, a total of 900 ha.

In addition 200 ha vegetable growing by drip,

700 ha field crops in center pivot and 64 farms, 50 ha each (a total of 3200 ha) for vegetable growing, fruit and field crops.

Further details, photos and information to projects in specific countries and topics will be added According to demand.

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