

## NESPAK IN *Kingdom of Saudi Arabia*

**T**he M. H. Aitah NESPAK Engineering Consultancy was established in 1997 as a professional company jointly by the National Engineering Services Pakistan (NESPAK) and local partner Mohammad Hesham Al-Aitah in the Kingdom of Saudi Arabia. Both parties agreed to establish a Saudi Company with the name of M. H. Aitah-NESPAK Engineering Consultant Company according to the Companies Rules and Regulations set out by the Government of Saudi Arabia.

Before establishing the company, NESPAK independently made its debut in Saudi Arabia in 1978 by setting up a joint venture with the Ar-Riyadh Development Authority. Later, the Company established its Regional Office in Riyadh in 1982. NESPAK started its association with various Saudi companies in terms of business acquisition and the provision of consultancy services in the KSA. NESPAK joined hands with the Saudi Consulting Services (SAUDCONSULT) in 1986. The two companies have carried out projects related to water resources and electricity sectors. The other prominent companies having business association with NESPAK include Zuhair-Fayez Partnership, Rashid Geotechnical and Materials Engineers and DAR Engineering.

After establishing as the M. H. Aitah-NESPAK Engineering Consultant Company, initially, the Company acquired projects in the energy sector in Saudi Arabia, but later it was also awarded projects in other sectors related to Environmental & Public Health Engineering, Highways, Architecture & Planning, Water Resources & Dam Engineering and Airports. Currently, the Company is providing engineering consultancy services to the Ministry of Environment, Water & Agriculture (MEWA), Ministry of Municipalities & Rural Affairs (MOMRA) and Saudi Electricity Company (SEC). NESPAK is also collaborating with Ala Azmi Abdullah & Khalifa Abdullah Al-Hawas Consultancy Engineering Company (AHCEC) and SAUDCONSULT.

To date, NESPAK has secured 126 projects worth US\$ 22 billion in Saudi Arabia. The total staff strength of the Company stands at 68 including nationals from Pakistan, Saudi Arabia, Bangladesh, Syria, Egypt and Sudan.

Portfolios of some of major projects in the Kingdom of Saudi Arabia are given in the following pages.



## Dam Projects in Saudi Arabia

NESPAK has been involved in the design review and construction supervision of dam projects in the southern and western parts of Kingdom of Saudi Arabia under five separate job contracts at a cumulative cost of US\$1,487 million. The purpose of these dams is to control floods and supply of water for drinking. This also includes the construction of gabion structures on upstream of already built dams for control of sedimentation. NESPAK has provided consultancy services for the construction of 30 dam projects, out of which 21 dam projects have been handed over to the Client after completion. Construction on nine (9) dam projects is in progress. The projects are located in Aseer, Jizan, Najran, Al-Baha and Makkah regions of the Kingdom. The dam types are concrete gravity dams, earth-fill dams and roller-compacted concrete gravity dams. The dam projects in the southern region were awarded by the Ministry of Environment, Water and Agriculture, Saudi Arabia and dam assignments in the western part of the Kingdom were awarded by SAUDCONSULT.

Details of some of the major dam projects and their features have been described in the following paragraphs.

### Qanunah Dam

**Project Status:** Completed in 2019

**Scope of Services:** Design Review, Construction Supervision

**Project Cost:** US\$ 50 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia



Qanunah Dam is located in the Makkah Region. It is a 70m high concrete gravity dam involving 377000m<sup>3</sup> of conventional concrete. The water storage capacity of the dam is 79

million cubic metres. The length of dam is 326m and length of spillway is 134m. A water treatment plant is constructed downstream of dam to utilise dam water for treatment.

### Yabha Dam

**Project Status:** Ongoing

**Scope of Services:** Design Review, Construction Supervision

**Project Cost:** US\$ 33 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia



Yabha Dam is located in the Aseer Region of Saudi Arabia. It is a 47m high roller-compacted concrete (RCC) gravity dam. The storage capacity of the dam is 80 million cubic metres. The length of the dam is 234m. It involves about 200000m<sup>3</sup> of RCC works. Spillway is located over the dam and its length is 190m. A water treatment plant is constructed downstream of the dam to utilise water for treatment.

### Aradaha Dam

**Project Status:** Ongoing

**Scope of Services:** Construction Supervision

**Project Cost:** US\$ 26 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia

Aradah Dam is located in Al-Baha Region of Saudi Arabia. It is 70m high concrete gravity dam and involves about 481662m<sup>3</sup> of conventional concrete. The length of the dam is





365m and length of spillway is 137m. The storage capacity of Aradah Dam is 68 million cubic metres. A water treatment plant is constructed downstream of dam to utilise water for treatment.

## Qissi Dam

**Project Status:** Ongoing

**Scope of Services:** Construction Supervision

**Project Cost:** US\$ 14 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia



Qissi Dam is located in the Jizan Region. It is a concrete faced rock-fill dam (CFRD). The height of this dam is 25m and the length of the dam is 1047m. The storage capacity of the dam is 16 million cubic metres. The purpose of the dam is to control floods and meet water supply demands.

## Shahdan Dam

**Project Status:** Ongoing

**Scope of Services:** Construction Supervision

**Project Cost:** US\$ 12 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia



Shahdan Dam is located in Jizan Region. It is 20m high concrete gravity dam involving 125000m<sup>3</sup> of conventional concrete. The length of Shahdan Dam is 376m.

## Hirjab Dam

**Project Status:** Completed in 2013

**Scope of Services:** Construction Supervision

**Project Cost:** US\$ 10 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia



Hirjab Dam is located in Aseer region. It is a 32m high concrete gravity dam. The length of dam is 196m and it involves 60000m<sup>3</sup> of conventional concrete. The dam is meant to help control floods and meet water supply demand of the area.

## Tarjis Dam

**Project Status:** Completed in 2013

**Scope of Services:** Construction Supervision

**Project Cost:** US\$ 10 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia



Tarjis Dam is located in the Aseer Region. It is 33m high concrete gravity dam and involves 108000m<sup>3</sup> of conventional concrete. The length of the dam is 184m with a storage capacity is 10 million cubic metres of water.

## Halba Dam

**Project Status:** Completed in 2013

**Scope of Services:** Construction Supervision

**Project Cost:** US\$ 9 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia



Halba Dam is located in the Aseer Region. It is 41m high concrete gravity dam and involves 58000m<sup>3</sup> of conventional concrete. The length of the dam is 115m. The purpose of the dam is to control floods and meet water supply demands.

## Gabion Structures Project, Phase-I & Phase-III

**Project Status:** Ongoing

**Scope of Services:** Construction Supervision

**Project Cost:** US\$ 23 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia

Several Gabion structures are being constructed at the upstream of dam reservoirs for the completed dam projects. The purpose of these Gabions is to control sediments entering the reservoir and enhance the service life of the dam. Gabion projects for Phase-I involve construction of five structures whereas, Gabion Project



Phase-III involves construction of 12 structures of different heights and lengths.



## Khulais Water Treatment Plant & Pipelines to Jeddah & Al-Kamil

**Project Status:** Completed in 2020

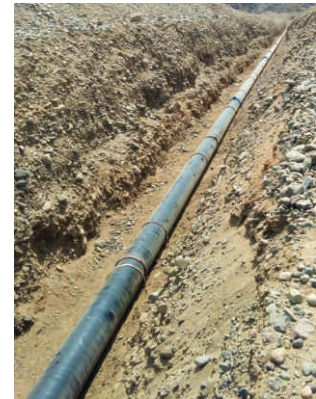
**Scope of Services:** Design Review, Construction Supervision

**Project Cost:** US\$ 220 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia



M.H. Aitah-NESPAK provided consultancy services for this project which was carried out in two phases. During the first phase, a water treatment plant was constructed at the Khulais Dam (also called Marwani Dam) with a capacity of purifying 40000 cu.m/day surface water from the Khulais Dam to the Jeddah City.



This phase also included laying of 42 km long ductile iron (DI) pipeline of DN 1200/700mm up to the connection chamber along the Makkah-Madinah Road. This was completed in 2013.

During the second phase, two water storage tanks were constructed at Raheli and at the Al-Kamil Town. Pipelines were laid to supply water to these storage sites consisting of 42 km long DI pipeline of DN 1200mm up to Raheli Storage Tank and 29 km long steel pipeline of DN 400mm up to the Al-Kamil Storage Tank.

## Al-Laith Dam Water Treatment Plant & Pipeline Project

**Project Status:** Completed in 2014

**Scope of Services:** Design Review, Construction Supervision

**Project Cost:** US\$ 193 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia

The Al-Laith Dam Water Treatment Plant is located near Makkah Al-Mukarramah. This purification plant has a water treatment capacity of 25000 cum/day. Treated water from plant was planned to be transmitted through



49 km long ductile iron (DI) water pipeline DN 600mm towards main pipeline dia. 1400mm and then to Shoaibah Desalination Plant near Jeddah through 115 km long main pipeline. The project was aimed at meeting shortage of potable water in the Jeddah City. The project was part of the Ministry's planning to enhance water supply for the Makkah Region by utilising surface water resources.

## Water Transmission Pipeline from Qunfuzah to Shoaibah Plant

**Project Status:** Completed in 2014

**Scope of Services:** Design Review, Construction Supervision

**Project Cost:** US\$ 160 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia

Water treatment plants and associated pipelines were constructed at the Heli Dam, Yabha Dam and Qanunah Dam under this project. Pipelines from these water treatment plants are converging at Qunfuzah.

A 158 km long carbon steel pipeline DN 1500mm was also constructed from Qunfuzah to Shoaibah Plant for transmission of water collected from these water treatment plants to main collection plant at Shoaibah. This mega project was completed within the scheduled time of completion of three years.

## Hofuf Pipeline System

**Project Status:** Completed in 2005

**Scope of Services:** Detailed Design, Tender Documents, Design Review, Construction Supervision

**Project Cost:** US\$ 153 million

**Client:** Saline Water Conservation Corporation, Riyadh, Saudi Arabia



The objective of this 40 MGD capacity project was to transmit water from the Al-Khobar Desalination Plant to Jabal Abu Ghanimah near the Hofuf City in the Al-Ahsa Region. The proposed structure involved a 1422mm dia, 136 km long steel pipeline, pump station, interconnection for the Abqaiq City and interconnections with the existing facilities at the Hofuf Terminal.



## Heli Dam Water Treatment Plant & Pipeline Project

**Project Status:** Completed in 2014

**Scope of Services:** Design Review, Construction Supervision

**Project Cost:** US\$ 152 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia



This project was part of the Ministry's planning to enhance water supply to cities of Qunfuzah, Qauz and Mahail by utilising surface water resources. The Heli



Dam Water Treatment Plant has 100000 cu.m/day capacity of water treatment. Part of treated water is supplied to Mahail City through 59 km long carbon steel (CS) Water Pipeline DN 500mm. The remaining water is transferred to cities of Qunfuzah and Qauz and to the Shoaibah Desalination Plant by 78 km long CS pipeline DN 1400mm.

## Rabigh Dam Water Treatment Plant & Pipeline Project

**Project Status:** Completed in 2020

**Scope of Services:** Design Review, Construction Supervision

**Project Cost:** US\$ 116 million

**Client:** Ministry of Environment, Water & Agriculture, Saudi Arabia



M. H. Aitah-NESPAK rendered consultancy services for this project aiming to supply treated surface water from Rabigh Dam to the Desalination Plant at Rabigh, King Abdullah Port, Saabar,

Al-Qadimah, Thuwal, and Raheli in North Jeddah. The project comprised the construction of water treatment plant of 100000 cu.m/day capacity on disposal station of Rabigh Dam and laying of 130 km long carbon steel water mains DN 1200mm from the Water Treatment Plant to Rabigh Desalination Plant up to connection chamber on the existing fibreglass coated concert pressure (FCPP) Line to supply water to the mentioned service areas. Major components of treatment plant included aeration cascade, four clarifiers, 22 gravity filters, two treated water tanks each of capacity 50000 cu.m/day and associated structures.



## Stormwater Drainage & Avoiding Flood Danger Projects for 5 Cities in Al-Baha Region

**Project Status:** Completed in 2016

**Scope of Services:** Feasibility Study, Detailed Design, Tender Documents

**Project Cost:** US\$ 109 million

**Client:** Ministry of Municipality & Rural Affairs, Saudi Arabia

M.H. Aitah-NESPAK Engineering Consultant Company was entrusted with the preparation of Studies and Design of



Stormwater Drainage & Avoiding Flood Danger Projects for the Cities of Qilwah, Al-Makhwah, Biljurashi, Al-Mandaq and Al-Aqiq in the Al-Baha Region. The assignment included site visits and field survey to the project areas to collect data; preparation of base maps for each of the five towns; evaluation of the stormwater drainage networks; surveys & investigations; development of design criteria for study and designs of stormwater networks; preliminary & final studies and designs including tender documents for stormwater drainage Networks.

## Eastern Province Water Supply System

**Project Status:** Completed in 1995

**Scope of Services:** Feasibility Study, Detailed Design, Tender Documents

**Project Cost:** US\$ 209 million

**Client:** Saline Water Conservation Corporation, Saudi Arabia

This two-phase project comprised the construction of a 53 km long 1524mm dia steel pipe and a pump station including all civil, architectural, mechanical and electrical works.

The pipeline originated from the Jubail Desalination Plant and located on the Coast of Arabian Gulf was aimed at supplying 278000 cu.m/day product water to the King Fahd International Airport and the towns of Rahima, Safwa, Sayhat and Qatif, all located in the Eastern Province of Saudi Arabia. The product water was supplied from the header of the existing water storage tanks of the Jubail Desalination Plant. Earlier, blending stations of Rahima, Safwa, Sayhat and Qatif received product water from the Al-Khobar Desalination Plant through two feeders.

The pumping plant was located within the boundary of Jubail Desalination Plant and was planned to contain eight pumping units, four of which were installed under this project.



## Madinah Al-Munawwarah Water Supply Master Plan

**Project Status:** Completed in 1995

**Scope of Services:** Project Planning

**Project Cost:** US\$ 1,427 million

**Client:** Madinah Al-Munawwarah Region, Water & Sanitary Drainage Authority, Saudi Arabia

This project study involved the review and updating of 1982 Master Plan for the Madinah Al-Munawwarah City. The review was necessitated by the expansion of the Holy City and the Prophet's (Peace Be Upon Him) Mosque. The plan was prepared to meet water requirements up to the year 2039.

Storage/balancing reservoirs, booster pump stations and adequate pipe sizes (up to 2000mm dia) were proposed after analysing the old water supply network.

## Al-Majmaa & Al-Shaqra Water Supply Project

**Project Status:** Completed in 1990

**Scope of Services:** Feasibility Study, Detailed Design, Tender Documents

**Project Cost:** US\$ 95 million

**Client:** Water & Sewerage Board, Riyadh, Saudi Arabia

The NESPAK-SAUDCONSULT joint venture was hired for study and design to supply blended water to Al-Majmah and Al-Shaqrah storage tanks and connect them with the Water Distribution Network. This project was aimed at providing 20000 cu.m/day of water to Al-Majmah and 300000 cu.m/day to Al-Shaqrah.

The project involved the construction of water storages, blending stations and pipelines for these two fast growing cities near Riyadh. Desalinated water was proposed to be blended with the groundwater, increasing the water supply to the two cities.

## Jeddah Sanitary Drainage Master Plan

**Project Status:** Completed in 2003

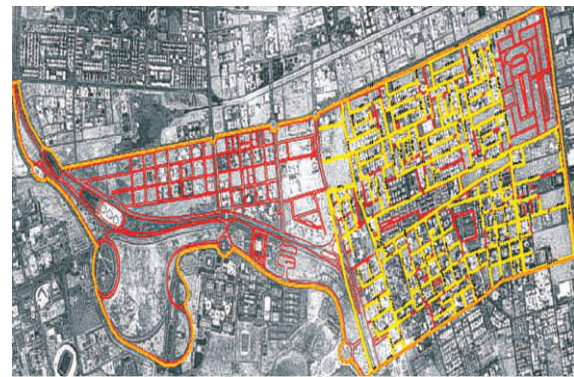
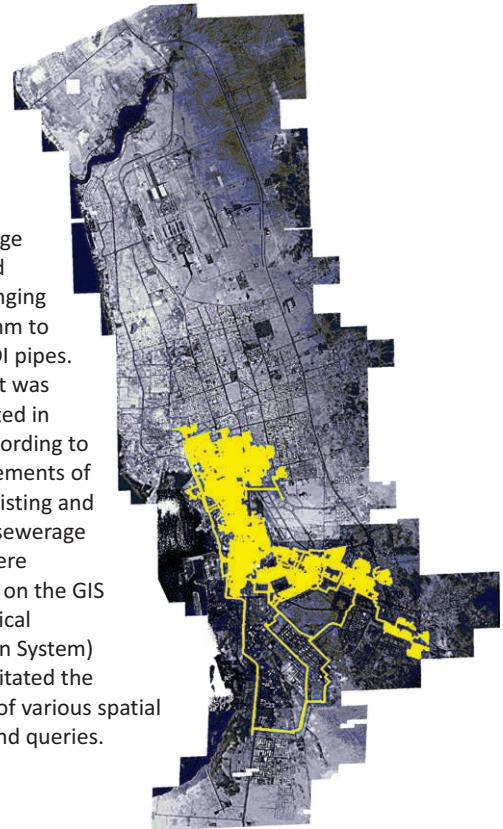
**Scope of Services:** Master Planning, Detailed Design, Tender Documents

**Project Cost:** US\$ 4 billion

**Client:** Makkah Al-Mukarramah Region Water & Sanitary Drainage Authority, SAUDCONSULT

The NESPAK-SAUDCONSULT joint venture was engaged for the Jeddah Sanitary Drainage Master Plan project covering 105000 hectares of land. The plan was necessitated to meet the increasing water requirements of the Jeddah City. The project involved the evaluation

and up-gradation proposals for the existing sewerage system, large sewers and tunnels ranging from 400mm to 2500mm DI pipes. The project was implemented in phases according to the requirements of the city. Existing and proposed sewerage systems were developed on the GIS (Geographical Information System) which facilitated the execution of various spatial analyses and queries.



## Dammam Wastewater Reuse Project

**Project Status:** Completed in 1995

**Scope of Services:** Master Planning, Detailed Design, Tender Documents

**Project Cost:** US\$ 37 million

**Client:** SAUDCONSULT

This project comprised a study for the reuse of the treated wastewater and monitoring the application of treated effluent to agriculture, horticulture, groundwater recharge of the depleting aquifers and sand dunes stabilisation in arid zones. The project also involved the design of 1500mm dia, 150 km long transmission pipeline to pump the treated effluent.

## Qusayba Irrigation Drainage Project

**Project Status:** Completed in 1987

**Scope of Services:** Feasibility Study, Detailed Design, Tender Documents

**Project Cost:** US\$ 33 million

**Client:** Ministry of Agriculture & Water, Saudi Arabia

The 1000 hectares study area, located in the Qaseem Province, is a closed catchment. A number of small hill torrents drained into Qusayba Depression from the catchment area, causing salinity which damaged the crop land. The main purpose of the project was to improve agriculture through the provision of proper drainage and checking of runoff into the Qusayba Depression. The feasibility report proposed a scheme for reducing the inflow into the Qusayba Depression through the construction of three water conservation structures, two pump stations, 9 km long flood channels and provision of 27 km long subsurface and 17 km long surface drains for the removal of saline effluent.

## Riyadh Power Plant No. 10

**Project Status:** Completed in 2007

**Scope of Services:** Design Review, Construction Supervision

**Project Cost:** US\$ 4 billion

**Client:** SAUDCONSULT



The Riyadh Power Plant No.10 Project consists of 40 gas turbine generator units each 7EA Frame with 56MW guaranteed output from the General Electric, USA. The project covers an area of approximately 6 sqkm in southeast of the Riyadh City.

Detailed scope of services included the monitoring of engineering design, supervision of structures civil works and training on equipment for all the 40 gas turbines.

M.H. Aitah-NESPAK also provided design review and construction supervision services for the 120MW Riyadh Power Plant No. 9 (Blocks C & D) in 2009. This 120MW project was the extension of the main 5980MW Riyadh Power Plant. After the execution of this project in 2003, it became the largest crude oil-fired power plant in the world. The combined cycle plant comprised engineering design and procurement for all systems, structures and civil works for the gas turbines. The plant has been built

over an area of 3.2 million sqm, located 54 kilometres east of the Riyadh City.

## Rabigh Power Plant Extension Units 22-49 & Shuqaiq Steam Power Plant

**Project Status:** Completed in 2018

**Scope of Services:** Design Review, Construction Supervision

**Project Cost:** US\$ 1,805 million

**Client:** SAUDCONSULT



The M. H. Aitah-NESPAK-SAUDCONSULT joint venture was hired for the 1680MW Rabigh Power Plant Extension Project which comprised the engineering design, procurement and training on equipment, systems, structures and civil works for 28 gas turbines for its Units 22-49. This two-phase project was aimed at meeting the growing electricity needs of Makkah Al-Mukarramah and Madinah Al-Munawwarah Regions. The project also included design review and construction supervision of Steam Power Plant & 380kV substation at Shuqaiq.

## Jeddah Power Plant No. 3 Extension Project

**Project Status:** Completed in 2006

**Scope of Services:** Design Review, Construction Supervision

**Project Cost:** US\$ 252 million

**Client:** SAUDCONSULT

Located in Jeddah City, this 480MW expansion power plant comprised the engineering design, procurement & training on equipment, structures and civil works for four gas turbines.





## Tabouk Power Plant (Stage-VIII) & Al-Wadjh Power Plant Project

**Project Status:** Completed in 2014

**Scope of Services:** Construction Supervision

**Project Cost:** US\$ 232 million

**Client:** SAUDCONSULT

M.H. Aitah-NESPAK rendered consultancy services to M/s ILF Consulting Engineers, Austria through SAUDCONSULT for providing engineering services to the Saudi Electricity Company – Western Operating Area (SEC-WOA), Jeddah for their Tabouk Power Plant Extension Stage-VIII Project.

The services included design review, construction supervision, testing and commissioning of civil, mechanical, electrical and I&C works for two gas turbines of 60MW each along with the Balance of Plant.

The Company was also engaged by M/s ILF Consulting Engineers, Austria through SAUDCONSULT to provide consulting services to the Saudi Electricity Company – Western Operating Area (SEC-WOA), Jeddah for their Al-Wadjh Power Plant Ext. I Project. The client issued a Letter of Special Thanks and Appreciation for completing the project ahead of the contractual schedule.

## Tabouk Power Plant No. 2 Extension Project (Stage-V)

**Project Status:** Completed in 2009

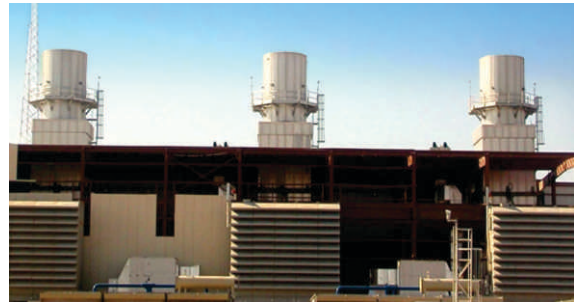
**Scope of Services:** Design Review, Construction Supervision

**Project Cost:** US\$ 204 million

**Client:** SAUDCONSULT, Saudi Electricity Company



M.H. Aitah-NESPAK reviewed the design and undertook the construction supervision of units 9, 10 and 11 of the Tabouk Power Plant No. 2 Extension Project. The scope of work included supply, installation and testing & commissioning of three simple cycle gas turbines of 60MW each, state-of-the-art Mark-VI gas turbine control system, fuel unloading station, two fuel storage tanks,



fuel treatment plant and extension of 132kV Gas Insulated Switchgear (GIS) substation. The Client issued a Letter of Special Thanks and Appreciation for completing the project ahead of the contractual schedule.

The Company also undertook the design review and construction supervision of the units 7 and 8 of the Tabouk Power Plant No. 2 Extension Project in 2005 under a separate contract. The Client, Saudi Electricity Company, issued a Letter of Special Thanks and Appreciation for completing the project ahead of schedule.

## Makkah 110kV System Extension and Reinforcement Project

**Project Status:** Completed in 1993

**Scope of Services:** Detailed Design, Construction Supervision

**Project Cost:** US\$ 40 million

**Client:** Saudi Electricity Company-Western Operating Area, Saudi Arabia

This project comprised the construction of two new 110/13.8kV GIS substations at Muna and Harat-ul-Bab in Makkah Al-Mukarramah. The project also included extension and modifications in seven 110kV substations, eight kms of 110kV double circuit overhead transmission line, seven kms of cross-linked polyethylene (XLPE) cables, readjustment of the protection system and installation of three 110kV bays. The extension of the Makkah Load Despatch Centre including SCADA (Supervisory Control and Data Acquisition) and new telecommunication links was also part of this power project.



## Power Supply to Shuqaiq Phase-II Water Transmission System

**Project Status:** Completed in 2008

**Scope of Services:** Feasibility Study, Detailed Design

**Project Cost:** US\$ 713 million

**Client:** Saline Water Conservation Corporation, Riyadh, Saudi Arabia

M.H. Aitah-NESPAK provided consultancy services for this project which comprised the construction of a 132kV overhead power transmission line and two other transmission lines for the supply of electricity to the Shuqaiq Phase-II Water Transmission System in the Jizan Region. Two associated power substations were also constructed under this project.

## Balghazi Road Project, Jizan Region

**Project Status:** Completed in 2008

**Scope of Services:** Detailed Design, Construction Supervision

**Project Cost:** US\$ 75 million

**Client:** Ministry of Transport, Saudi Arabia



M. H. Aitah-NESPAK was engaged for rendering consultancy services for the "Construction of Balghazi Road" in Al-Ga'a, Wadi Gussy, Al-Sharha, Mashereen, Reea areas and miscellaneous farm-to-market roads in the Jizan Region.

The project included a 200 metres long bridge and 276 km long link roads scattered around the Jizan Region.

## Majmaa Region Roads Project

**Project Status:** Completed in 2012

**Scope of Services:** Construction Supervision

**Project Cost:** US\$ 60 million

**Client:** Ministry of Municipalities and Rural Affairs, Saudi Arabia

M. H. Aitah-NESPAK provided consultancy services for construction supervision of rural and sub-urban roads in

the Majmaa Region. The project was located on the Madinah-Riyadh Expressway. New roads were developed and exiting roads were rehabilitated in different municipalities of Thumair, Al-Artavia, Jalajil, Roudha and Hotha-Sudeer.

## Madinah Al-Munawwarah Secondary Roads Project

**Project Status:** Completed in 2010

**Scope of Services:** Detailed Design, Construction Supervision

**Project Cost:** US\$ 59 million

**Client:** Ministry of Transport, Saudi Arabia



This project comprised the design and construction of two link roads i.e., 101 km long Khyber Al-Hayet Road and 90 km long Al-Yatamah-Dhumariyah Road in the Madinah Al-Munawwarah Region. These two-lane roads are located in a hard terrain between Khyber and Al-Hayet cities.

## Al-Baha Secondary Roads Project

**Project Status:** Completed in 2010

**Scope of Services:** Design, Construction Supervision

**Project Cost:** US\$ 44 million

**Client:** Ministry of Transport, Saudi Arabia

This project consisted of design and construction supervision of secondary roads in Al-Baha region. The project was divided into three groups at Al-Makhwa, Qilwa and Al-Aqiq towns. The purpose of project was to join rural area roads to main roads.

## Saudi German Hospital, Abha

**Project Status:** Completed in 2007

**Scope of Services:** Detailed Design, Construction Supervision

**Client:** Saudi German Hospital (SGH) Group, Jeddah



Consultancy services were provided to the SGH Group for design and construction supervision of hospital in Abha, Aseer region. Detailed design of architectural, structural, electrical and mechanical works was provided. After detailed design, construction supervision services were carried out for this healthcare project.

## Medical College of Saudi German Hospital, Jeddah

**Project Status:** Completed in 2006

**Scope of Services:** Detailed Design, Construction Supervision

**Client:** Saudi German Hospital Group, Jeddah



The SGH Group hired consultancy services for detailed design and construction supervision of medical college in Jeddah. Detailed design of architectural, structural, electrical and mechanical works and construction supervision services were provided for this project.

## Pension Directorate Building, Riyadh

**Project Status:** Completed in 1995

**Scope of Services:** Detailed Design, Tender Documents

**Project Cost:** US\$ 40 million

**Client:** Pension Directorate, Riyadh, Saudi Arabia

In the early 90s, NESPAK was hired for rendering consultancy services for the project titled Pension

Directorate Building in Riyadh, Saudi Arabia. Located at the Zubaida Bin Jaffar Street off King Fahd Road in Al-Washm area, this five-storey building was constructed on a total ground area of 6000 sqm. The covered area of the building comprising basement, ground and five floors is 18200 sqm. The Pension Directorate building is flanked by the buildings of Technical Training Institute–Training centre for Architects and King Abdul Aziz Historical Centre –National Museum of Saudi Arabia.

NESPAK scope of work included architectural and engineering design, Bill of Quantities, engineer's cost estimate and contract documents. The Pension Directorate houses various offices to facilitate the retired Saudi nationals by handling their post-retirement problems.



## Carrefour Hypermarket Project

**Project Status:** Completed in 2007

**Scope of Services:** Design Review, Construction Supervision

**Client:** COWI International, Bahrain



Under the Carrefour Hypermarket Chain of Stores in Riyadh and Jeddah Project, NESPAK was hired to provide consultancy for a superstore in Jeddah namely Jamjoom Centre. The project involved the electrical, mechanical and architectural works for the Jamjoom Centre.