

“By means of industry and
perseverance you will rise
higher and higher.”

Robert Schumann

Industrial Sector

NESPAK has not lagged behind in the Industrial Sector in terms of performance and progress. During the last 45 years of its existence, the NESPAK's industrial engineering services sector has come of age by maintaining growth at a steady pace.

In the Industrial Sector, NESPAK has provided professional services for more than 275 projects relating to heavy, medium and light engineering industries including steel mills, cement factories, automobile manufacturing units, process plants, seed processing plants, rice cleaning mills, fisheries, fruit and vegetable processing plants, marine terminals, e.t.c., in Pakistan. The Company has also carried out industry-related projects in the Islamic Republic of Afghanistan, Tanzania and the United Arab Emirates.

SCOPE OF SERVICES

NESPAK's consultancy services are utilised directly by the clients and/or the development institutions involved in financing the projects. The scope of services includes:

Surveys and Investigations: Management and interpretation of topographic, geological and geotechnical surveys and investigations.

Feasibility Studies: Pre-investment studies, detailed economic and technical studies and evaluation of the alternative schemes.

Planning, Design and Tender Documents: Planning, design, and tender documentation incorporating different facilities and process requirements to develop cost-effective designs.

Construction Management and Supervision: Construction planning, management and supervision, procurement, contract management, documentation and record, quality assurance, safety and security, inspection/testing and commissioning and handing over certifications.

EXPERIENCE

Steel Mills: Three major steel mill projects which involved planning, engineering and supervision services for Pakistan Steel Mills,

a steel wire rods and reinforcing bars mill and balancing, modernisation, rehabilitation and expansion of a specialised alloy steel mill. Consultancy services for shifting of wire manufacturing and tower fabrication plants for a steel products manufacturing concern in Pakistan.

Automobile Plants: Civil, mechanical, electrical and HVAC (Heating, Ventilation and Air-conditioning) works for an automobile plant to manufacture 24,000 vehicles per year. Technical appraisal and evaluation of a motorcycle assembling plant and detailed design as well as construction supervision of a truck manufacturing plant.

Cement Plants: As many as 40 cement plants involving design and construction supervision of five plants of 1,000 tonnes per day (TPD) to 6,700 TPD capacity and evaluation and implementation monitoring of seven plants of above 2,000 TPD capacity.

Fertilizer Plants: Design and construction supervision of 15 fertilizer plants encompassing civil structure and process equipment, machinery and plant evaluation report along with their remedies/solutions.

Polyester Plants: Planning, engineering design and construction supervision services for 10 polyester plants including civil, electrical and mechanical works for a greenfield polyester plant to produce 2,000 tonnes fibre and 2,000 tonnes filament yarn per year. NESPAK also undertook a pilot synthetic fibre development and research centre.

Sugar Plants: Technical appraisal, monitoring of construction, machinery manufacturing and erection/installation and plant operation certification for 12 sugar plants in the country with a cumulative cane crushing capacity of 48,000 TPD as well as preparation of valuation reports.

Industrial Zones and Textile Units: Technical appraisals, approval of machinery, project implementation, monitoring and completion certification for more than 80 industrial zones and textile units in the areas of spinning, weaving, knitting, dyeing/bleaching, printing, e.t.c.





Quaid-e-Azam Apparel Park at M-2, Sheikhupura

The Punjab Industrial Estates Development and Management Company hired NESPAK for "Master Planning and Detailed Designing for Development of Quaid-e-Azam Apparel Park at M-2 District Sheikhupura." NESPAK prepared feasibility report, preliminary and detailed design along with PC-I for this Rs. 11 billion project.

Korangi Creek Industrial Park, Karachi



Jalozai Economic Zone

NESPAK has been engaged by the Khyber Pakhtunkhwa Economic Zones Development and Management Company for infrastructure development works of the Economic Zone at Jalozai, Nowshera. NESPAK services include master planning, detailed design and construction supervision for this Rs. 5 billion project. The scope of works comprises roads, water supply, sewerage, drainage and electrification under this two-phase scheme.

Spread over an area of 250 acres at Korangi Creek, Karachi, this is essentially a land development project aimed at supplying plots of various sizes to small and medium-size industrial entrepreneurs. NESPAK finalised the master plan of the project in association with M/S Jurong International, Singapore. Besides master planning, NESPAK also carried out detailed design of infrastructure, tender documentation and construction supervision for this Rs. 4 billion project awarded by the National Industrial Park Development and Management Company.



Chunian Industrial Estate

NESPAK is involved in the feasibility study, master plan, Environmental Impact Assessment, surveys and investigations for the development of the Chunian Industrial Estate. The project costing Rs. 4 billion has been assigned by the Punjab Industrial Estates Development and Management Company.

Bahawalpur Industrial Estate

The Punjab Industrial Estates Development and Management Company has engaged NESPAK for the development of Bahawalpur Industrial Estate. The scope of work includes the preparation of master plan, groundwater study, sub-soil/geotechnical investigations, topographic survey, detailed design of infrastructure comprising roads, water supply, sewerage, drainage, electrification, e.t.c. The services also include business and financial plan, Environmental Impact Assessment study and tender documentation for this Rs. 2 billion project.

Big Bird Poultry Processing Plant at Kasur



NESPAK supervised the construction of the Big Bird Poultry Processing Plant at Kasur awarded by the Big Bird Food (Pvt.) Limited. The Rs. 1 billion project is a combination of pre-engineered building structure and RCC (Re-inforced Cement Concrete) frame structure along with ancillary buildings.



Wheat Storage Silos at Mana Ahmadani

NESPAK completed construction supervision of Concrete Silos for Wheat Storage at Mana Ahmadani, Dera Ghazi Khan. This storage project was awarded by the Punjab Food Department.



Pipe Mills at Mangopir, Karachi



NESPAK prepared detailed design, tender documents and supervised the construction of the Pipe Mills at Mangopir, Karachi. The Rs. 360 million project—Pakistan's first-ever process plant for production of seamless pipe—was awarded by the People's Steel Mills, Karachi. The plant can produce up to 300mm diameter seamless pipe to be used in the local market as well as for strategic purposes.



Exploration of Barite-Lead-Zinc Ore Deposit at Gunga, Khuzdar

NESPAK is carrying out the "Feasibility Study for the Exploration of Barite-Lead-Zinc Ore Deposit at Gunga, Khuzdar in Balochistan."

The Company has supervised field exploration activities including drilling, logging of drill cores, down-hole survey, sample marking, sample preparation and core photography for resource estimation and geotechnical evaluation of this unique project. The project is being undertaken by NESPAK in association with a German firm for the Bolan Mining Enterprises, Quetta.



Fatima Fertilizer Complex Project



NESPAK prepared design of architectural and civil works of the Fatima Fertilizer Complex, the largest fertilizer unit ever constructed in the private sector in Pakistan. Detailed scope of services for this Rs. 52 billion project included planning and design of infrastructural works, utilities and services, housing and ancillary facilities and different types of fertilizer plants along with their handling and storage facilities. Located at Sadiqabad, District Rahim Yar Khan, the Fatima Fertilizer Complex was put into operation in 2009 and is producing ammonia and nitric acid as well as other fertilizers like nitro phosphate, nitrogen phosphorous potassium, calcium ammonium nitrate and urea.



Maple Leaf Cement Factory, Iskanderabad



NESPAK rendered consultancy services including detailed design of foundations and civil works of the limestone crusher, raw mill feed, cement mill feed, coal plant, transport and transfer structures, substations, cable trenches, and allied structures for the 6,700 TPD Ordinary Portland Cement Plant at the Maple Leaf Cement Factory.

Peoples Steel Mills, Karachi

NESPAK rendered project planning, detailed design, tender documents, design review and construction supervision services for the Peoples Steel Mills, Karachi. This project of immense national importance was aimed at balancing, rehabilitation, expansion and modernisation of the Peoples Steel Mills.

Millat Tractors Warranty and Service Section Building, Lahore

NESPAK prepared feasibility study, project planning, detailed design and tender documents for this project awarded by State Organisation for Land Reclamation, General Establishment for Design and Research in 1982.

Covering 51,625 hectares of land, the New Rumaitha Irrigation and Drainage Project was located in the southern part of Iraq. The project was aimed at remodelling the existing irrigation canals and surface drains. An additional irrigation and drainage network was also proposed for the development of the area under intensive cultivation. The project also involved the construction of surface, sub-surface and field drains together with rural infrastructure including water treatment plants, sewage treatment plants and electric transmission lines.



Pak Suzuki Car Plant, Karachi

NESPAK carried out project planning, detailed design and tender documents for this project. The project costing Rs. 450 million was assigned to NESPAK by the Pak Suzuki Motor Company Limited.

Two Industrial Parks in Afghanistan



Al-Majid Rebar Fabrication Factory, Qatar

NESPAK completed design services for Al-Majid Rebar Fabrication Factory at the New Industrial Area, State of Qatar. The project was awarded by M/s Redco International, Qatar.

This World Bank-funded project was aimed at developing modern, strategically located and well-managed, regulated and attractive industrial parks in Afghanistan. The project comprised the establishment of two industrial parks: one in Kamari, a 120-hectare park located 13 kms from central Kabul, the other in Hisar-e-Shahi, a 200-hectare park located 22 kms south-east of the Jalalabad City. NESPAK undertook topographical survey, planning and environmental studies for this industrial project.