2014

Managing Director's Report

National Engineering Services
Pakistan (Pvt.) Limited

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Field of Activities

- Water Resources Planning, Drainage, Salinity Control and Land Reclamation, Dams and Barrages, Irrigation and Drainage Systems, Groundwater Resources Development, Flood Management and Forecasting/Warning Systems and Institutional and Social Development

- Power Transmission and Distribution, Substations, Hydropower, Thermal Power, Nuclear Power, Rural Electrification, Supervisory Control and Data Acquisition (SCADA) and Telecommunications and Oil and Gas

- Motorways, Highways, Urban Roads, Rural Roads, Grade Separated Interchanges, Bridges and Flyovers, Subways and Underpasses, Tunnels, Computer Generated Transport Modelling and Planning, Rapid Mass Transit System, 3D Animation of Highway Projects (Real-life Simulation), Steel Structure Design, Pedestrian Bridges, Bus Shelters and ITS Arrangement for Operations

- Geotechnical, Geo-environmental, Geohazards, Site Investigations, Geological Characterisation, Geophysical Surveys, Construction Materials, Liquefaction Analysis, Seismic Risk Evaluation, Ground Improvement and Deep Excavation Support Systems

- Airport Terminal Buildings, Hangars, Runways, Taxiways and Air Traffic Control Towers

- Deep Seaports, Fish Harbours, Marine Terminals, Container Terminals, Inland River Navigation and Marine Jetties

- Architectural and Engineering Design, Healthcare Buildings, Educational Buildings, High-rise Buildings, Corporate Office Buildings, Commercial and Community Buildings, Sports and Recreational Facilities, Industrial Buildings, Low-cost Housing, Residential Communities, Urban Planning, Slum Upgradation, Landscaping, Interior Design and Rehabilitation and Refurbishment Works

- Seismic Hazard Microzonation, Disaster Risk Reduction and Management Studies and Trainings, Implementation Strategies, Policy Formulation, Residential Communities, Urban/Rural Development Planning, Advocacy Planning, Preparation of Zoning Regulations and Bye-laws, Tourism Planning, Regeneration, Re-settlement and Renewal Planning

- Water Supply, Sewerage, Stormwater Drainage, Solid Waste Management, Plumbing, Water and Wastewater Treatment

- Site Characterisation/Baseline Data for Environmental Impact Assessment, Environmental Risk Assessment, Environmental Planning and Management, Environmental Health and Safety, Air and Noise Pollution Control, Contaminated Site Assessment and Mitigation and Environmental Audit

- Steel Mills, Automobile Plants, Cement Plants, Fertilizer Plants, Polyester Plants, Sugar Plants and Textile Units

- Business Process Re-engineering, Management Information System, Database Applications, Web Portals, Data Warehousing, Data Conversion, Networking and Data Centres, Satellite Imagery Processing, Digital Terrain Modelling, GPS Survey, GIS Development and Map Digitisation

- Land Surveying, Cadastral Surveying, Hydrographic Survey, Geodetic Survey, Deformation Studies and Surveying Services during Construction

- Design and Supervision of Heating Ventilation and Air Conditioning, Fire-fighting, Elevators, Escalators, Platform Screen Doors, Building Management Systems and Building Energy Audits

- Agriculture Development and Management, On-Farm Water Management, High Efficiency Irrigation Systems, Soil and Water Conservation, Social and Environmental Institutional Development, Natural Resources Development (Aquatic Life Study, Monitoring and Evaluation Tasks, Horticulture/Floriculture Forestry, Rangeland Management, Livestock and Dairy Development and Wildlife Management) and Socio-economic Project Impact Evaluation

Services

Appraisals, Pre-feasibility and Feasibility Studies

- Reconnaissance Studies
- Preliminary Investigations
- Development of Alternative Proposals
- Outline Designs and Cost Estimates
- Evaluation of Technical and Economic Feasibilities

Investigations

- Surveys and Mapping
- Geotechnical and Soil Investigations
- Hydrological and Environmental Surveys
- Traffic Surveys
- Data Analyses
- Determination of Design Parameters
- Deformation Monitoring of Structures

Design

- Design Vetting
- Structural Design Evaluation of Buildings
- Preliminary Designs and Costs
- Model Tests
- Computer Simulations
- Detailed Designs and Specifications
- Detailed Drawings

Tender and Contract Documents

- Bill of Quantities, Cost Estimates and Schedules
- Tender Documents
- Pre-qualification of Constructors
- Evaluation of Tenders and Recommendations
- Contract Documents

Construction Supervision and Contract Management

- Project Management
- Contract Coordination
- Progress Monitoring and Control
- Works, Supervision and Quality Control
- Equipment Inspection and Commissioning
- Measurements
- Certification of Periodic Payments to Contractors

Post-construction Services

- Third Party Validation and Monitoring
- Completion Reports
- Operation and Maintenance Manuals
- Routine Maintenance and Safety Inspections
- Performance Monitoring

Specialised Services

- Institutional Strengthening and Capacity Building
- Tourism Planning
- Inspection of Dams and Barrages
- Development of Building Codes
- Asset Valuation
- Services for Public-Private Partnership and BOT Projects

Preface

A success story may be easy to tell, but success does not come easily. NESPAK achieved success after a long struggle initiated by a small bunch of committed professionals in 1973. The NESPAK professionals not only shed their blood and sweat but also dedicated whole of their lives to bring the Company to the pinnacle where it stands today.

Owing to hard work and dedication of NESPAK staff, the success attained during the year 2013-14 was enormous. The volume of NESPAK's business expanded with the acquisition of 120 projects worth Rs. 1,206 billion. The business acquisition touched Rs. 8 billion figure against Rs. 6.5 billion in 2012-13 which depicts a 23 percent raise in the current year's business. NESPAK's growth can be gauged from the fact that more than half of the total projects acquired during the year were won through open competitions in Pakistan and abroad. The Company won 64 projects during the current year, showing a 36 percent increase.

The major new projects include 6,600MW Pakistan Power Park, Gaddani (Balochistan), Uch-II Combined Cycle Power Plant, Jalalpur Irrigation Project, Ghabir Dam, Chakwal, Rawalpindi-Islamabad Metro Bus Project, Aziz Cross Flyover, Gujranwala, Ravi Riverfront Urban Development Project, Sewerage System for Three Lahore Union Councils, Crescent Bay Development Project, Karachi, Pakistan Railways Project, Khawaja Fareed University of Engineering and Information Technology, Rahim Yar Khan, Quaid-e-Azam Apparel Park, Sheikhupura, Zarqa Ma'een Dam, Jordan, Roads and Infrastructure Development in Duqm Town, Sultanante of Oman and Three Convenience Stores in State of Qatar. NESPAK successfully completed 51 projects at home and abroad during the year.

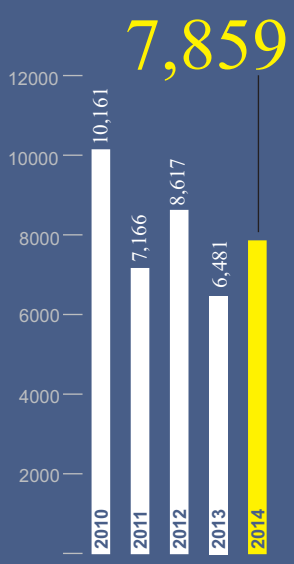
The foreign business which is 34 percent of the total remittances, remained stable during the year. Out of 120 projetcs, 17 were acquired in the Kingdom of Saudi Arabia, Islamic Republic of Afghanistan, Sultanate of Oman, State of Qatar and Jordan.

Client satisfaction is a key to successful business and NESPAK has proved this through tangible actions. NESPAK has always lived up to the expectations of its customers by meeting deadlines and quality work. The Company has received buckets of appreciation from majority of its valuable clients from time to time. Furthermore, a Complaint and Monitoring Cell has also been established for redressal of complaints of our worthy clients.

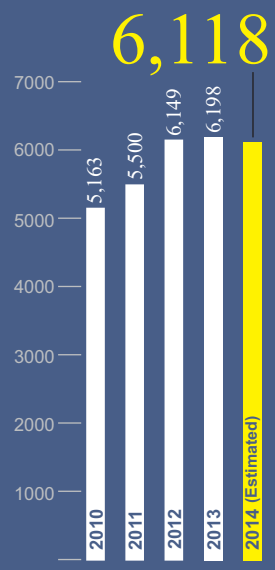
Fresh business is always a lifeline of a company. NEPSAK always keeps an eye on the future and that is why efforts are underway to invite business from foreign lands. NESPAK is being registered in the UK and In Sha Allah it will get sufficient business in the near future.

During the last 40 years, NESPAK has served the country in countless ways. The greatest service NESPAK has rendered is the promotion of engineering consultancy in Pakistan by highlighting the importance of the profession at every available forum. The Company has supported smaller consulting firms of Pakistan to improve their expertise by making joint ventures with them. Making joint ventures with renowned foreign companies is not only a source of good business but it also enhances training skills of NESPAK employees. NESPAK has so far made joint ventures on 415 projects with 156 foreign and 85 domestic consulting firms.

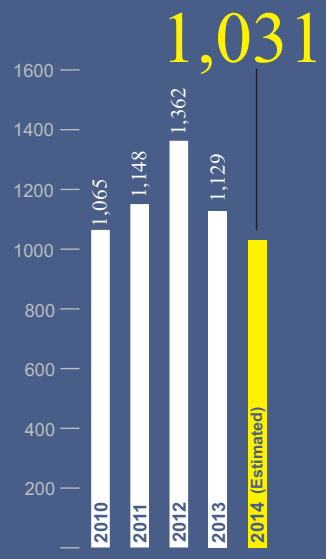
Strict adherence to the newly introduced austerity policy has resulted in 20 percent cut in the Company's expenditures. NESPAK has been highly profitable right from the beginning. It has never been financially



Growth of Business



Growth of Income



Growth of Profit

(Rupees in million)

dependent on the government, rather it gives dividends and taxes back to the government.

NESPAK has evolved as an industry leader in Pakistan's consultancy market due to its commitment to quality. It has recently formed a Quality Inspection Team to ensure quality of work on the fast-track projects.

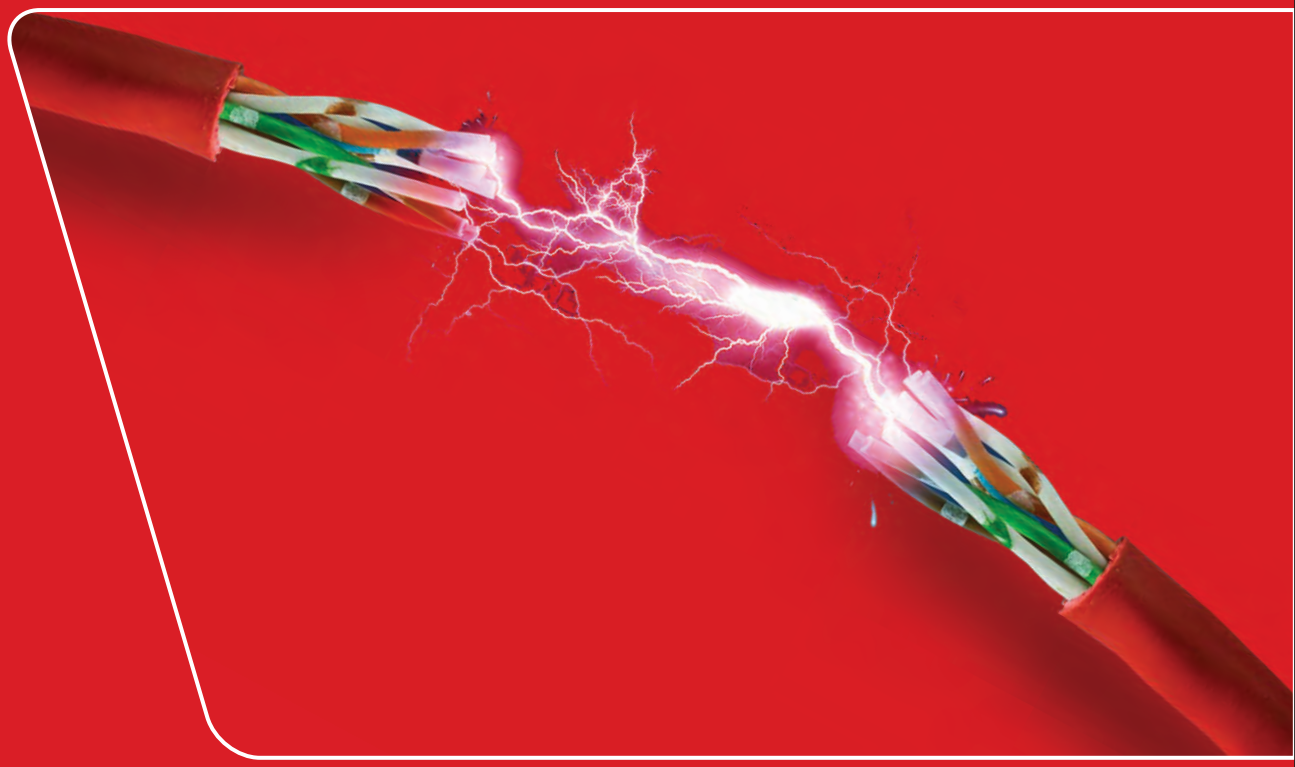
As top priority, quality is achieved at NESPAK by maintaining the ISO-9001 based Quality Management System and continuously enhancing and upgrading quality of services by making necessary changes in work practices/procedures. The ISO 9001:2008 Certification of NESPAK demonstrates its commitment to continuous improvement through a dynamic Quality Management System.

External Surveillance Audits were carried out by the Lead Auditor of TUV Austria Bureau of Inspection and Certification in various NESPAK Offices/Divisions during the fiscal year to check compliance to the requirements of the ISO 9001:2008 Standard. The audits were extensive, covering all the documented requirements of the QMS. Since the Quality Management System was found compliant, NESPAK has been issued a new Certificate of Registration by TUV Austria.

May Allah bless us with steadfastness and perseverance to touch new heights in business and development! Amen.

Amjad A. Khan
President & Managing Director

Empowering the Powerlines



Energy Sector

NESPAK achieved two milestones in the Energy Sector during the year, the prime one being the 6,600MW Pakistan Power Park, Gaddani in Balochistan. The other landmark achievement came in the form of the first Solar Energy project in the Company's history. NESPAK emerged as a stable and sturdy performer by getting 16 new projects worth Rs. 600 billion. It continued services for 19 projects worth Rs. 1,064 billion and completed consultancy for 18 projects worth Rs. 86 billion during 2013–2014.

1- A conceptual view of 6,600MW Pakistan Power Park Project, Gaddani, Balochistan

2- The front view of installed transformers at 425MW Combined Cycle Power Plant, Nandipur

Among the fresh projects during the year, NESPAK as a sole consultant was tasked with rendering feasibility study, master planning, detailed design, tender documentation and construction supervision services for the 6,600MW Pakistan Power Park Project. Under this landmark project, 10 power plants will be established at the mega energy park at Gaddani, District Lasbela, Balochistan on a fast-track basis. The Pakistan Power Park Management Company Limited will be responsible for the implementation of this Rs. 572 billion project. Preliminary master plan has been submitted and various studies and surveys are in progress under this project.

NESPAK in a joint venture was entrusted by Mira Power Limited, a subsidiary of the Korea South East Power (KOSEP), to review design and supervise construction of the 100MW Gulpur Hydropower Project on Poonch River in the Kotli District of Azad Jammu and Kashmir. Funded by the Korea Eximbank, the Asian Development Bank (ADB), International Finance Corporation (IFC), the Islamic Development Bank (IDB) and the ECO Bank, this Rs. 25 billion project is being developed in private sector on the Build-Own-Operate-Transfer (BOOT) basis.

NESPAK and the National Transmission and Despatch Company (NTDC) signed an agreement for the construction supervision of 220/132kV Air Insulated Switchgear Grid Station at Dera Murad Jamali, Balochistan. The project will be constructed at a cost of Rs. 2 billion.

Among the ongoing projects, construction activities accelerated for Rs. 275 billion Neelum-Jhelum Hydroelectric Project to generate much-needed energy for the electricity-starved industry. Under this fast-track 969MW mega project, major works on intake block, desander, dam powerhouse and transformer hall were completed during the year while spillway/stilling basin is in progress. Concreting work on all the sites is in advanced stages of completion under a five-firm joint venture where NESPAK is reviewing the design and supervising the construction as the local lead company. A bridge at the Nauseri Dam site of the Project was also inaugurated thus strengthening the communication across the Neelum River. Twin tunneling by the Tunnel Boring Machines is contributing significantly to improve performance of this project of national importance.

After the completion of the feasibility study, a NESPAK joint venture has been awarded tender documentation and design review for the Rs. 43 billion Mangla Power Station Refurbishment Project by the Water and Power Development Authority (WAPDA).

The two gas turbines of the 747MW Guddu Combined Cycle Power Plant costing Rs. 62 billion were successfully commissioned during the year. NESPAK is reviewing design and supervising the construction of this largest combined cycle block in Pakistan awarded by the Central Power Generation Company Limited (CPGCL). The Prime Minister of Pakistan has appreciated the working of the NESPAK professionals for the project.

Under-construction dam apron for the Neelum-Jhelum Hydroelectric Project

The 425MW Nandipur Combined Cycle Power Plant gas turbine unit No. 3 has been inaugurated by the Prime Minister of Pakistan. The trial run of the said unit was successfully carried out while the remaining units are nearing completion. NESPAK has been providing tender documentation, design review and construction supervision for this Rs. 58 billion project awarded by the Northern Power Generation Company Limited (NPGCL).

During the year, a NESPAK joint venture assisted the Client, K-Energy (Pvt.) Limited, during the negotiations for the formal signing of the contract for 42MW Units 3 and 4 of the Bin Qasim Power Station-I Coal Conversion Project with the Harbin Electric International, China. Consultancy services for this Rs. 28 billion project include assistance during contract negotiations, design review and construction supervision.

Bidding and contract awarding remained in progress for the 500kV Transmission Line 3rd Circuit Jamshoro-Moro-Dadu to Rahim Yar Khan (600km) and Moro Substation Project. NESPAK services comprise project management, tender documentation, design review and construction supervision of various transmission lines and substations for this Rs. 25 billion turnkey project financed by the ADB.

Good performance was recorded on Rahim Yar Khan 500/220/132kV Substation (Package-I) and In/Out Arrangement of 500kV Guddu–Multan 3rd Circuit at Rahim Yar Khan 500kV Substation (Package-II). Most of the civil works have also been completed for this project awarded by NTDC and sponsored by the Japan International Cooperation Agency (JICA). A NESPAK-led joint venture is carrying out tender documentation, design review construction supervision of this Rs. 6 billion project.

Work on the 220/132kV Khuzdar Substation is nearing completion as a NESPAK-led joint venture continues to render tender documentation, detailed design and construction supervision for Rs. 5 billion Dadu-Khuzdar Project awarded by NTDC and funded by JICA.

Construction activities were in full swing on Rs. 13 billion New Lahore 500kV Substation and Associated Transmission Lines Project under NESPAK supervision during the year. Work also progressed well on the construction of Rs. 2 billion Gujrat 220kV Substation and Associated Transmission Lines project. NESPAK is responsible for tender documentation, design review and construction supervision for both the projects awarded by NTDC and funded by JICA.

Civil works have been completed and equipment installation is in progress for the unique project of Static VAR Compensator at 220/132kV New Kot Lakhpat Substation Lahore under the supervision of a NESPAK joint venture. The NESPAK joint venture also reviewed the

1- Work in progress on Rahim Yar Khan 500kV Substation and Associated 500kV Transmission Lines Project

2- A view of the Bin Qasim Power Station-I

3- Tabouk Power Plant Extension Project (Stage-VIII)

4- A view of the completed 'Rehabilitation of 22MW Jabban Hydroelectric Power Station Project'

A splendid view of Riyadh Power Plant No. 10, Saudi Arabia

design of this Rs. 2 billion project awarded by NTDC and funded by ADB.

Partial use of the centralised Supervisory Control and Data Acquisition (SCADA) System commenced at the National Power Control Centre, Islamabad under the Load Despatch Upgrading Project during the year. Remaining works have since moved towards completion and the overall system integration test is underway. NESPAK submitted preliminary design report to the Government of Balochistan for the first-of-its-kind project of the Quetta Integrated Video Surveillance System. The report details various technical options for camera sites, telecommunication network and control centre.

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Overseas, the 2,236MW Power Plant No. 10 in the southeast of Riyadh, Saudi Arabia has registered excellent progress. Outstanding works and punch list is being attended for preliminary acceptance for this state-of-the-art project awarded by the Saudi Electric Company—Central Operating Area. The plant is fully functional and contributing huge power to the national grid of Saudi Arabia. NESPAK is responsible for supervising construction of this US$ 4 billion project.

The US$ 376 million project, "Engineering and Design Services for Saudi Electricity Company, Dammam," awarded by the Saudi Electric Company—Eastern Operating Area is nearing completion. NESPAK services include engineering and design of a high-voltage transmission network.

The balance of plant (BOP) works for the 180MW Al-Wadjh Power Plant Extension-I and 120MW Tabouk Power Plant Extension Stage-VIII Project, costing US$ 139 million and US$ 93 million respectively, are in final stages of progress under NESPAK supervision. Both the power projects were commissioned ahead of schedule which was highly appreciated by the Saudi Electricity Company—Western Operating Area, Jeddah. The ILF Consulting Engineers, Austria had engaged NESPAK for providing design review and construction supervision services for both projects.

Among the wrapped up projects during the year, NESPAK completed detailed design, tender documentation, design review and construction supervision services for "Rehabilitation of 22MW Jabban Hydroelectric Power Station Project" awarded by WAPDA. Taking over certificates for all the four units of this Rs. 3 billion project were issued after the successful reliability test run.

Brimming with Brilliance

Water Resources Development Sector

NESPAK has ever been in the vanguard of the development of water resources in Pakistan and abroad. The Company has always reserved its services for the good of the nation and this time it is in the shape of assistance in presenting Pakistan's case before the Court of Arbitration as Neutral Expert in connection with the controversial Kishanganga Hydropower Project. The other important project–the National Flood Protection Plan-IV–is a study undertaken in the backdrop of the frequent floods in the country.

The Company clinched 11 new projects costing Rs. 73 billion, continued services for 21 projects worth Rs. 591 billion. Five projects were completed by NESPAK during the year.

Among the fresh projects during the year, a NESPAK joint venture was engaged for the construction supervision of the Pakpattan Canal and Suleimanki Barrage Improvement Project. The project funded by the Asian Development Bank (ADB) is aimed at rehabilitating and upgrading the Suleimanki Barrage and Pakpattan Canal. The Rs. 8 billion project designed by the Punjab Irrigated Agriculture Investment Program (PIAIP) Consultants is expected to be completed in three years.

A NESPAK-led joint venture has been awarded feasibility study and detailed design of Jalalpur Irrigation Project by the ADB in a competition. The Rasul Barrage canal intake structure, main canal, distributaries and allied structures will be designed under this Rs. 7 billion project.

NESPAK has been hired for detailed design and construction supervision of the Irrigation Projects in Khyber Pakhtunkhwa by the Provincial Irrigation Department under the Packages 4, 7 and 12. The project will cover D. I. Khan, Kohat, Swabi, Mardan, Bagan Katta and Abbottabad areas at a cumulative cost of Rs. 3 billion.

Among the ongoing projects, the PC-I of Trimmu and Panjnad Barrage under the Punjab Irrigated Agriculture Investment Program (PIAIP) was approved by the Federal Government and the project is ready for loan negotiations with the ADB. NESPAK scope of services includes feasibility study, detailed design and tender documentation for this Rs. 268 billion project.

The Kachhi Canal Project being executed under WAPDA's Vision 2025 Programme, showed brilliant progress as a large number of construction works were completed for Phase-I, i.e., Main Canal and Distribution System up to Dera Bugti. NESPAK has been re-engaged for design, construction supervision and hill torrents management study. The project will now be completed at a revised cost of Rs. 57 billion.

Work continued on a moderate pace on the Punjab Mega Irrigation Project awarded by the Punjab Irrigation and Power Department. During the year, more distributaries/ minors were concrete-lined in a length of 1,126 kilometres. Lining of 60 distributaries/minors, two sub-projects of Irrigation System Rehabilitation Project and six sub-projects of flood protection works on Indus, Jhelum and Chenab rivers are in advanced stages of progress under NESPAK supervision. NESPAK is also carrying out design review services for this Rs. 52 billion project.

Substantial progress was made on the Punjab Irrigated Agriculture Productivity Improvement Project (PIAPIP) during the year. A suitable number of high efficiency irrigation systems were installed under NESPAK supervision. Similarly, 2,100 watercourses were improved and 250 irrigation schemes completed. Laser units were delivered to most of the farmers as part of this Rs. 36 billion project. The PIAPIP awarded by the Punjab Agriculture Department and funded by the World Bank is set for completion in 2017.

Work is progressing well on the Punjab Annual Development Program-funded Irrigation Projects according to standard specifications. Construction for the Haji Shah Dam near Attock has been completed under the supervision of NESPAK. The scope of services also includes design review and monitoring of this Rs. 28 billion project.

Canal lining in progress for the Kachhi Canal Project

Newly constructed cross regulator for the Lower Bari Doab Canal Improvement Project

The Lower Bari Doab Canal Improvement Project, being jointly financed by the ADB and the Punjab Irrigation and Power Department, was extended for two years at a revised cost of Rs. 17 billion. A NESPAK-led joint venture is responsible for design, tender documentation and construction supervision for this project of immense national importance.

Construction work on "Rehabilitating Lower Chenab Canal System" continued at a rapid pace with the completion of the most of the works according to schedule under NESPAK supervision. During the year, additional civil works comprising concrete-lining of 374 km distributaries in the Upper Gogera, Burala and Lower Gogera Canal Divisions were included in the project at a revised cost of Rs. 12 billion. The consultancy services also include detailed design and tender documents for this project awarded by the Punjab Irrigation and Drainage Authority.

Construction activities for 23 civil work packages in the irrigation zones of Faisalabad, D.G. Khan and Bahawalpur

1- Rehabilitation and Modernization of Jinnah Barrage Project

2- Construction of guide head spur on River Indus near Head Bakini in progress under the Punjab Mega Irrigation Project

3- Downstream view of completed Haji Shah Dam under the Punjab Irrigation Projects funded by Annual Development Program

under the Punjab Irrigation System Improvement Project (PISIP) are almost complete under the supervision of a NESPAK joint venture. Work is also in progress on the five additional packages for the rehabilitation and upgradation of Jhang Branch Upper and Lower Canal under this Rs. 12 billion project awarded by the Punjab Irrigation and Power Department and funded by the Japan International Cooperation Agency (JICA).

Brilliant progress was demonstrated on the Sindh Water Sector Improvement Project, Phase-I (WSIP-I) during 2013-14. A NESPAK joint venture is carrying out monitoring and evaluation of the rehabilitation works of this Rs. 18 billion project awarded by the Sindh Planning and Development Department and sponsored by the International Development Association (IDA).

Construction of subsidiary weir and allied components, barrage repair works, renovation of most buildings, rehabilitation of Kalabagh Railway Bridge and replacement of half of 28 barrage gates was carried out for the Rehabilitation and Modernization of Jinnah Barrage Project under the supervision of a NESPAK joint venture. The services also include design review of this Rs. 12 billion World Bank-funded project assigned by the Punjab Irrigation and Power Department.

Design report for the Remodelling of Warsak Canal System Project in Peshawar and Nowshera Districts has been submitted to the Khyber Pakhtunkhwa Irrigation Department by a NESPAK-led joint venture. The consultancy services also include construction supervision for this Rs. 11 billion project.

Concrete lining in progress in Hafizabad under the Punjab Irrigated Agriculture Investment Program

In Afghanistan, work on the On-Farm Water Management Project is nearing completion under the supervision of a NESPAK joint venture. The scope of services includes detailed design and tender documentation for this Rs. 4 billion irrigation project awarded by Afghanistan's Ministry of Agriculture, Irrigation and Livestock.

Among the wrapped up projects during the year, NESPAK as part of an eight-firm consortium completed feasibility study and detailed engineering design for Ganges Barrage Project–Phase-II, Bangladesh as per schedule. Awarded by the Bangladesh Water Development Board, the study was a landmark for NESPAK as this is one of the biggest barrage projects in the world.

Weapon Against Disaster

Dam Engineering Sector

The performance of NESPAK's Dam Engineering Sector was recorded as reasonably good during the year. The Company achieved a major breakthrough by winning a dam project in Jordan which demonstrates that NESPAK is recognised as a world-class consultant not only in Pakistan but also abroad.

Spillway discharge at the Mangla Dam Raising Project during 2014 flood

Among the fresh projects during the year, NESPAK won Ghabir Dam Project in a competition at a cost of Rs. 9 billion. NESPAK will supervise the construction of the dam in Chakwal District. The Water and Power Development Authority (WAPDA) is the executing agency for the proposed storage dam which is 42 metres high with 82 million cubic metres gross capacity.

NESPAK in a joint venture with a Jordanian engineering firm made a landmark achievement and won construction supervision of Zarqa Ma'een Dam Project in Jordan. The project costing US$ 20 million was awarded by the Jordan Valley Authority of the Ministry of Water and Irrigation. Zarqa Ma'een is an embankment dam with a height of 30 metres, total crest length of 208 metres and a storage capacity of 2 million cubic metres.

Among the ongoing projects, the raised Mangla Dam reservoir was impounded for the first time during the monsoon season to 1,240 feet level. A comprehensive monitoring report on the reservoir impounding for this Rs. 102 billion project was prepared and submitted by the NESPAK-led Mangla Joint Venture in collaboration with the Mangla Dam Organization, WAPDA.

Overseas, inception report for the Bakhshabad Multipurpose Dam Project, has been submitted to Afghanistan's Ministry of Water and Energy within due date by NESPAK. Detailed design studies are in progress for this US$ 401 million project located in the Farah Province.

NESPAK continued to supervise the construction of the "Dams in Southern Region of Saudi Arabia" during the year. Under this project, work is being carried out on 22 dams in the Jizan, Najran, Aseer and Al-Makkah Regions at a cost of US$ 129 million. The dam types are concrete gravity, earth-filled, concrete-faced, rock-filled and underground. The scope of services includes construction supervision, contract management, progress monitoring, and design review for this project awarded by the Ministry of Water and Electricity.

Construction activities geared up for the Qanunah and Yabah Dams Project in the Kingdom of Saudi Arabia under the supervision of NESPAK. Qanunah is a concrete gravity dam while Yabah is a roller-compacted concrete gravity dam. This US$ 87 million project awarded by the Ministry of Water and Electricity will help overcome water shortage in Saudi Arabia.

In Nigeria, work on the Obudu Dam Rehabilitation Project has substantially been completed and the project is now under the defects liability period. NESPAK in a joint venture with a German firm has been providing construction supervision services for this 18m high earth-filled structure with a storage capacity of 4 million cubic metres. The NESPAK joint venture will carry out inspection of all the outstanding works for handing over the project to Nigeria's Federal Ministry of Water Resources and prepare the closeout report.

Among the wrapped up projects during the year, the Attabad Landslide Dam was completed with the required spillway deepening to El.2,368 metres and the construction of ferry track according to schedule. NESPAK was engaged to provide consultancy services for the supervision of spillway deepening works, design and construction supervision of ferry track and preliminary feasibility study for lowering the Attabad Lake water through tunnel (s).

1&2- Work in progress on Halbaa and Qaradan Dams in Southern Region of Saudi Arabia

Building Pathways

Transportation Sector

The growth in the Highways Sector surged during 2013-14 with NESPAK getting 24 fresh projects worth Rs. 64 billion in Pakistan and abroad. The Company continued services for 41 jobs worth 457 billion and completed six projects worth Rs. 15 billion with utmost professional commitment. The acquisition of project after project in the Sultanate of Oman is enough to prove that NESPAK has shown a matchless performance in that country. And most of these projects were won in open competitions. A unique feature was added to NESPAK's expertise as its services were hired for third party validation of two important road projects in Sargodha by the Punjab Communication and Works Department.

1- Conceptual design of Rawalpindi–Islamabad Metro Bus Project

2- An artistic view of signal-free interchange at Aziz Cross, Gujranwala

Among the fresh projects during the year, the Rawalpindi Development Authority (RDA) awarded NESPAK design and construction supervision of the mega project of Rawalpindi–Islamabad Metro Bus after successful operation of the Metro Bus Project, Lahore. The Rawalpindi Section of the project will begin from Flashman's Hotel on The Mall, ending at the Faizabad Interchange. The Islamabad Section will begin from the Faizabad Interchange and end at the Pakistan Secretariat. The project with a total length of 23 kilometres will be constructed at a cost of Rs. 45 billion.

The Lahore Development Authority (LDA) has awarded a project to the NESPAK–Engineering Consultancy Services of Punjab (ECSP) joint venture for the construction of a six-lane Elevated Expressway along with bus stations and allied facilities from Jail Road/Main Boulevard Gulberg to Ring Road/Motorway (M-2), Lahore. The Elevated Expressway will pass through the major areas of the city, connecting the commuters from east to west. The project is subdivided into three main packages with a total cost of Rs. 30 billion. LDA has given a go-ahead for the construction of sub-structure of Package-I from Ferozepur Road at Shama Chowk to Multan Road, costing Rs. 6 billion. NESPAK scope of services includes design and project management for this important project.

NESPAK won detailed design and construction supervision for a complete signal-free interchange at Aziz Cross, Gujranwala. The Rs. 6 billion fast-track flyover project awarded by the Punjab Communication and Works Department comprises the construction of a main flyover having three lanes on each side for traffic coming from Rawalpindi and Lahore and entering or exiting from Gujranwala City.

LDA selected NESPAK to design and supervise the construction of 2km six-lane dual carriageway by covering the sewerage-cum-stormwater Cantt. Drain from LOS Ferozepur Road to Multan Road, Lahore. The dual carriageway project will be constructed at a cost of Rs. 2 billion.

NESPAK was hired by the Lahore Ring Road Authority for providing design and construction supervision services for the Rehabilitation/Improvement of Sunder–Raiwind

The two important roads running through industrial area with a cumulative length of 23 kilometres will be completed at a total cost of Rs. 1 billion.

The Punjab Metrobus Authority (PMA) has engaged a NESPAK-led joint venture for project planning of the proposed Lahore Orange Line Metro Train Project. A three-volume technical evaluation report has been submitted by the NESPAK-led joint venture for information and opening of the financial bids. The Metro Rail Transit Orange Line consists of 27km stretch running from Ali Town through the heart of Lahore along Multan Road, McLeod Road and the G.T. Road terminating at Dera Gujran.

Overseas, NESPAK won Bisya–Tawi Jiwar–Al-Rsais Road in Wilayat Bahla, Sultanate of Oman, in a competition by Oman's Ministry of Transport and Communications. NESPAK will render detailed design, tender documentation and construction supervision services for this project which is expected to be completed in two years.

NESPAK won Al-Nuzha Road Project in Sohar city of Oman in a competition. NESPAK scope of services includes design and construction supervision for this 11km road project awarded by the Diwan of Royal Courts, Sohar Municipality. Sohar Municipality has assigned NESPAK work after two decades, creating hope that this will bring new business opportunities for the Company.

A view of Signal-Free Junction at Azadi Chowk, Lahore, at night

The Ports Department of Ministry of Transport and Communications, Oman has commissioned NESPAK to supervise the construction of internal roads in Sohar Port area. Sohar Port is being run by an independent operator, Sohar Industrial Port Company (SIPC). NESPAK is also responsible for design modifications of the road network and other utilities as required by SIPC.

Among the ongoing projects, work on Rs. 117 billion Surab-Basima-Nag-Panjgur-Hoshab Road resumed during the year. Construction activities are in full swing to achieve the planned work target under the supervision of NESPAK. NESPAK is also reviewing the design of this 469km strategically important project awarded by the National Highway Authority (NHA).

Phase-I of 40km Lahore Ring Road Project-LRRP (Northern Loop) has been substantially completed. Two new underpasses added to the project recently are fast nearing completion under NESPAK supervision. The negotiations for the construction of the LRRP Southern Loop on the Public Private Partnership (PPP) mode are at a conclusive stage. The cumulative cost of the project is Rs. 72 billion.

Round-the-clock construction work is in progress on the Signal-Free Junctions along Ferozepur Road (Qainchi, Ghazi Road and Khaira,) Azadi Chowk and Circular Road under the supervision of NESPAK. NESPAK has also undertaken design and tender documentation for this

1- Conceptual design of Bus Rapid Transit, Yellow Line, Karachi

2- Under-construction Rathoa Haryam Bridge, Mangla, Azad Jammu and Kashmir

3- Work underway for the ongoing Batinah Coastal Road Project, Oman

Newly constructed Earthquake Memorial Bridge under the West Bank Bypass Project, Muzaffarabad, Azad Jammu and Kashmir

Rs. 11 billion project to ease traffic congestion caused by the Metro Bus System.

Under the Quick Impact Projects (QIPs) in the Federally Administered Tribal Areas (FATA), NESPAK has completed construction supervision of 71km Wana–Shakai–Makin Road in South Waziristan Agency. Construction activities are going on with full speed for the widening and improvement of Bannu–Miranshah–Ghulam Khan Road, North Waziristan Agency, D. I. Khan–Tank Road including Tank Bypass, KPK and Peshawar–Torkham Road, Khyber Agency. Work on the Gomal Bridge on the Gomal Zam River in South Waziristan Agency, FATA is showing good progress. NESPAK is responsible for feasibility study, detailed design, construction supervision and quality assurance services for Rs 22 billion projects awarded by the Frontier Works Organization and funded by the United States Agency for International Development (USAID).

Remarkable progress was recorded on the construction works under the Khyber Pakhtunkhwa (KPK) Emergency Rural Road Rehabilitation Project during the year. Eight roads were completed including four in Dera Ismail Khan and one each in Buner, Lower Dir, Mardan and Peshawar. A bridge in D. I. Khan was also completed under this Rs. 15 billion project awarded by the KPK Government. NESPAK services for this project funded by the Japan International Cooperation Agency (JICA) include feasibility study, planning, detailed design, design review, tender documentation and construction supervision.

The median station design proposed by a NESPAK joint venture for elevated section of the Bus Rapid Transit, Yellow Line, Karachi was approved by the Karachi Metropolitan Corporation during the year. The NESPAK joint venture is evaluating the pre-qualification documents for three separate components of the project. The project won by NESPAK will be carried out on the PPP mode at an estimated cost of Rs. 14 billion.

The 68km Sukkur-Jacobabad Project Package-2 is nearing completion as extensive progress was achieved under the supervision of a NESPAK joint venture during 2013-14. The Rs. 10 billion Sukkur-Jacobabad Section connecting Sindh with Balochistan was awarded by NHA and funded by the Asian Development Bank.

The West Bank Bypass Project Muzaffarabad in Azad Jammu and Kashmir is nearing completion under NESPAK supervision. Finishing works including asphalting of road is in progress for this JICA-funded project awarded by NHA. The central part of this unique project on the west bank of Neelum-Jhelum River is the Earthquake Memorial Bridge which is “Balanced Cantilever Box Girder Cable Stayed Extrados” type. NESPAK also reviewed design of this Rs. 2 billion project of immense importance.

The first-of-its-kind girder launching went into progress for the Rathoa Haryam Bridge over the Mangla Dam Reservoir under NESPAK supervision. The bridge will connect the Mirpur City with Islamgarh in Azad Jammu and Kashmir. The girder launcher has been specially imported for this Rs. 5 billion project awarded by the AJ&K Public Works Department.

Biayaiq-Aqir Al-Abriyyin Asphalt Road in Wadi Shafan, Oman

In Oman, Section–I of the Batinah Coastal Road designed and supervised by NESPAK was handed over to the Ministry of Transport and Communications, ahead of schedule. Overall progress of construction work on Section-II of this most important project has been excellent under the supervision of NESPAK. This all-weather four-lane carriageway with a cumulative cost of US$ 1.4 billion was conceived in an entirely new alignment mostly along the Batinah Coast to provide connectivity to various Wilayaat (governorates).

Construction for US$ 96 million Dualisation of Ibri–Dariz–Miskin Road in Ad'Dahira Region of Oman is continuing swiftly under NESPAK supervision. The good quality of the road designed by NESPAK has been praised by the Ministry of Transport and Communications and people of the area.

Rehabilitation works for Nizwa–Thumrait Road Stage-IV (Section-II) continued at a fast pace under NESPAK supervision. The 134km road project awarded by the Ministry of Transport and Communications, Oman will be completed at a cost of US$ 62 million.

In Oman, NESPAK also continued supervision of the construction of the US$ 52 million Madinat Al-Ilam Ring Road, US$ 44 million Biayaiq-Aqir Al-Abriyyin Asphalt Road in Wadi Shafan and US$ 38 million Paved Road in Wilayat Madha, Governorate of Musandam.

Among the wrapped up projects during the year, NESPAK successfully completed design review and monitoring of construction for the "Improvement/ Upgradation of Karakorum Highway" from Raikot to Khunjerab near the Pakistan-China border. The 335km road project costing Rs. 45 billion was awarded by NHA and sponsored by the Export Import Bank of China.

1- Construction in progress on the Paved Road in Wilayat Madha, Oman

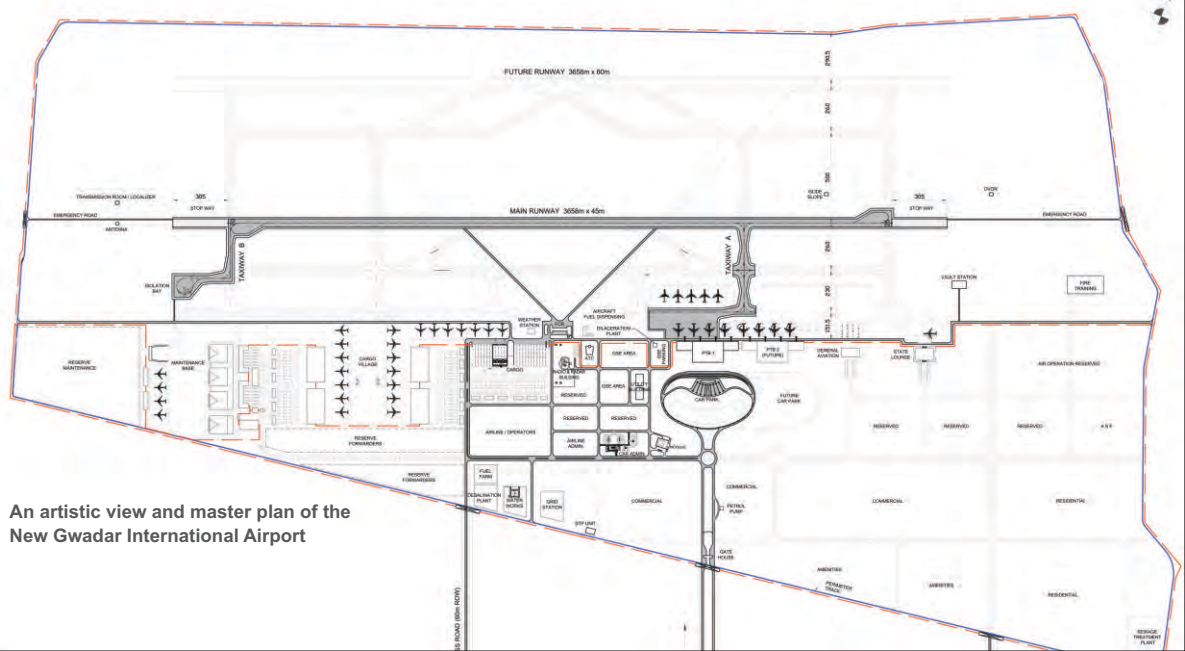
2- The view of an improved section of Karakorum Highway

Airport Sector

Among the fresh projects during the year, NESPAK was engaged for planning, design and construction supervision of the Mirpur Khas Khipro Airstrip near Tando Adam, Sindh by the United Energy Pakistan (UEP) Private Limited. The scope of work includes runway system with CAT–I airfield lighting, navigational aids, passenger lounge building and related infrastructure facilities. NESPAK has submitted master plan, conceptual design and draft bidding and contract documents to the UEP for both civil and electrical & mechanical works. The Rs. 2 billion airport project is designed to handle aircraft such as Beech Craft 1900D and ATR-42-500.

Among the ongoing projects, NESPAK in a joint venture with a French firm submitted design for various facilities including passenger terminal building, ATC Tower, runway system, CAT-I Airfield lighting and allied infrastructural facilities at the New Gwadar International Airport (NGIA). Construction of site protection works including fencing, perimetre track and watch towers around the 1,740-hectare site was completed under NESPAK supervision during the year. Located 26 kilometres east of Gwadar Town, the Rs. 25 billion project has been undertaken by the Pakistan Civil Aviation Authority (CAA) and is expected to be completed in five years.

Mirpur Khas Khipro Airstrip near Tando Adam, Sindh



An artistic view and master plan of the New Gwadar International Airport

Work in progress for the Coal, Clinker and Cement Terminal Project, Karachi

Seaports and Harbours

Among the fresh projects during the year, the Karachi Port Trust (KPT) engaged a NESPAK joint venture for construction supervision of the Pakistan Deep Water Container Port. The NESPAK joint venture will also review tender documents, conduct site inspections, prepare the final project report, vet reports of the submissions/ deliverables from the terms of contract and assist KPT in its obligations towards the concessionaire. The scope of services also includes overseeing and approving the development, design, engineering, supply, procurement, construction, commissioning and operation of this Rs. 162 billion project.

Among the ongoing projects, construction work resumed with full vigour on the Coal, Clinker and Cement Terminal Project under the supervision of NESPAK during the year. Dredging in the main navigational channel is in progress and a cofferdam has also been constructed near the main terminal area for the disposal of dredged material. Two concrete batching plants, storage shed, precast concrete yard, laboratory and other construction facilities have been established. Construction of a temporary trestle access bridge is progressing well along with the site clearing activities. NESPAK is reviewing the design of this Rs. 11 billion modern terminal facility awarded by the Pakistan International Bulk Terminal (PIBT). The project being constructed on Build, Operate and Transfer (BOT) basis at Port Qasim, Karachi is expected to be completed in three years.

Construction started for marine and general civil works for the Ship Lift and Transfer System at the Karachi Shipyard under the supervision of NESPAK during the year. This prestigious project awarded by the Karachi Shipyard and Engineering Works (KS&EW) Limited will be constructed at a cumulative cost of Rs. 4 billion in two years. The main objective of this project is to install a Ship Lift and Transfer System to enhance the ship repair capacity of KS&EW and upgrade other repair facilities. The new system will be capable of repairing up to 13 vessels at a time.

NESPAK has submitted pre-qualification criteria for Boat Basin Jetty Project, Keamari to the KPT. NESPAK has already completed design work and bidding documents have also been submitted for this Rs. 600 million project. Reconstruction of new jetty which is 240m long and 6m wide will facilitate the fishermen community of Baba and Bhit Islands and the coastguard.

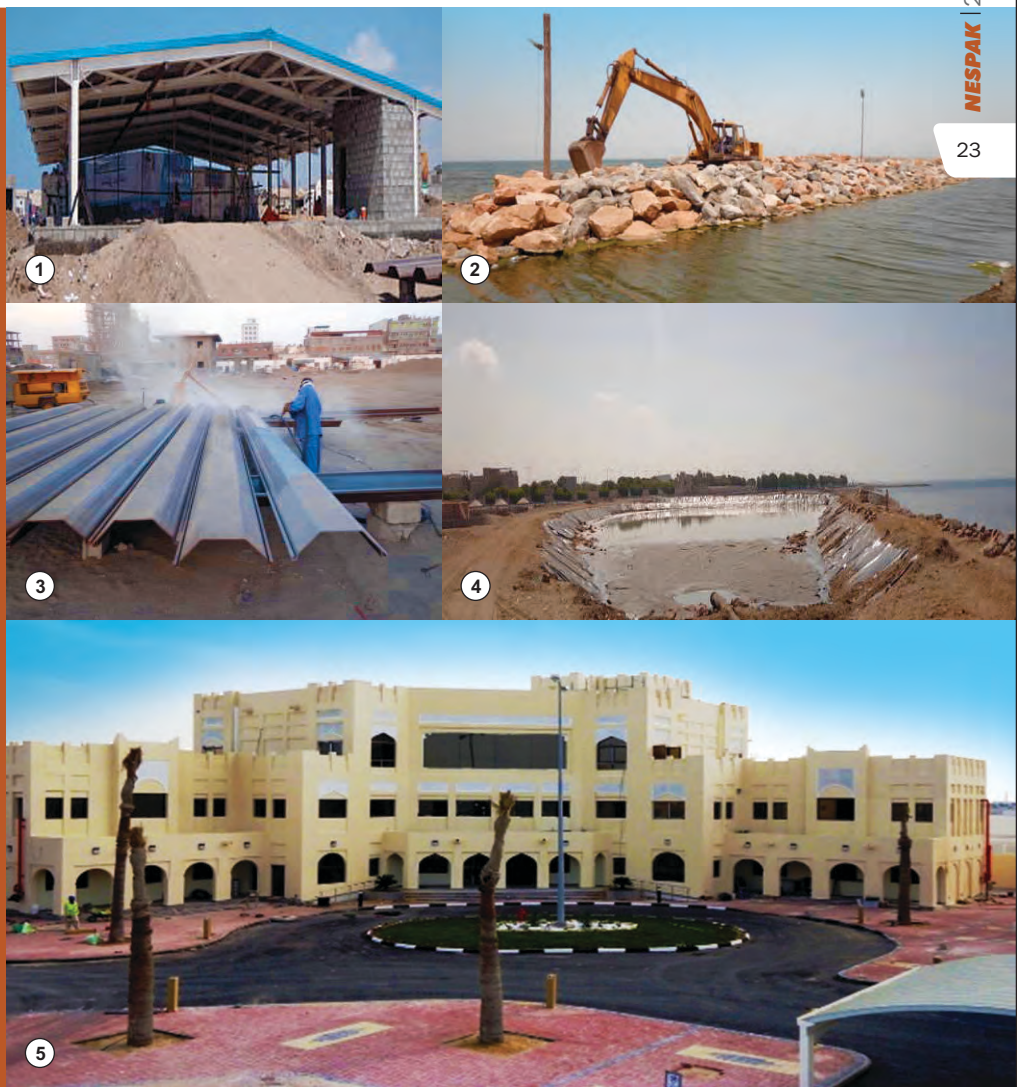
NESPAK has completed design for the Reconstruction of Jetty at Pilot Pier Manora and the preparation of bidding documents is underway. Pre-qualification criteria for constructors have been submitted to the Client, Karachi

Port Trust. Access to the proposed jetty will be 74 metres long with a 40m wide jetty head for mooring of small and large boats.

Overseas, excellent progress was recorded on the construction of Marine and Land Works for Fishing Port-Hodeidah in the Republic of Yemen. NESPAK continued design review and construction supervision during the year for this third consecutive Fishing Port Project in Yemen. The US$ 13 million World Bank-assisted project awarded by the Ministry of Fish Wealth is likely to be completed in one and a half years.

Among the wrapped up projects during the year, NESPAK completed construction supervision of the "Development of Al-Ruwais Port (Package-II)" costing US$ 10 million in the State of Qatar. The site comprises 34,576 square kilometres with a total covered area of 5,596 sq. km. The components of the project include boat parking area, administration and accommodation buildings, workshop, ice factory, painting workshop, guard house, fire pump room, fire water tank, portable pump room and a substation. The project which is considered a milestone in the ongoing work at the Al-Ruwais Port, was awarded by the Private Engineering Office, Qatar.

NESPAK successfully completed design review and construction supervision for the World Bank-sponsored Al-Khawbah Fishery Port Improvement Project awarded by the Ministry of Fish Wealth, Yemen during the year. The client praised NESPAK for rendering highly professional services and assured the Company of its full cooperation on future projects in Yemen. The World Bank also appreciated professional approach of NESPAK staff.



1- A view of the shark auction hall at Hodeidah Port, Yemen

2- Construction of breakwater in progress at Hodeidah Port

3- Sand blasting of sheet piles at Hodeidah Port

4- A view of retention dykes basin for dredged material, Hodeidah Port

5- A view of completed Al-Ruwais Port Project, Qatar

Towering Elegance

Architecture and Planning Sector

NESPAK performed exceptionally well in the Architecture and Planning Sector by acquiring 44 projects worth Rs. 275 billion including the prestigious project of Crescent Bay Housing Development, Karachi. The Company continued services on 112 projects worth Rs. 320 billion and completed 17 projects worth 17 billion during the year.

NESPAK's credibility for professional excellence has been acknowledged again as Pakistan Railways selected it for their area development & improvement schemes and upgradation of Railway Stations in eight major cities of Pakistan.

An artistic view of the Crescent Bay Development Project, Karachi

Among the fresh projects during the year, NESPAK was awarded detailed design, tender documentation and construction supervision of the Crescent Bay Development Project by the EMAAR Giga Karachi Limited. The 43-hectare project consists of 47 residential towers, five office towers, shopping malls, hotels, mosque, community centre, infrastructure and other essential utilities. Located along seaside in Phase-VIII, DHA, Clifton, Karachi, this mega project will be constructed at an estimated cost of Rs. 246 billion.

NESPAK was hired for providing master planning, design and construction supervision of development works at the Naval Housing Scheme, Rawat during the year. The housing scheme to be constructed at an area of 71 hectares has been awarded by the Naval Headquarters, Islamabad.

The Lahore Development Authority (LDA) has selected NESPAK as consultants for two years for all their upcoming building projects in Lahore, Kasur, Sheikhupura and Nankana Sahib Districts. The first project assigned to NESPAK is the Kasur Sports Complex at Khem Karan Road, Kasur. NESPAK will design hockey and cricket stadiums along with allied facilities for this state-of-the-art sports complex.

NESPAK has been engaged for providing design and construction supervision of the Rs. 4 billion Khawaja Fareed University of Engineering and Information Technology (KF-UEIT), Rahim Yar Khan and University of Engineering and Technology (UET) Lahore Sub-Campus Narowal worth Rs. 3 billion.

NESPAK has been awarded design review and construction supervision for Upgradation of University College of Engineering and Technology by the Mirpur University of Science and Technology (MUST), Azad Jammu and Kashmir. The college will be upgraded as a university at a cost of Rs. 1 billion.

Views of proposed Hasanabdal and Peshawar Railway Stations under Area Development & Improvement Schemes and Upgradation of Railway Stations Project

Conceptual design of New Surgical Oncology Complex at the Jinnah Post-Graduate Medical Centre, Karachi

NESPAK won design of a Cadet College at Chilas in Diamer District. NESPAK will also carry out master planning for this project initiated under the prime minister's directives.

The Workers Welfare Board Balochistan engaged NESPAK for planning, design and construction supervision of six high schools, two mine rescue centres and a vocational training centre in various cities of the province. The Rs. 750 million project is scheduled to be completed in two and a half years.

NESPAK was hired for providing master planning, detailed design and construction supervision for "Establishment of Kohat Institute of Medical Sciences." The project awarded by the Khyber Pakhtunkhwa (KPK) Communication and Works Department will be constructed at a cost of Rs. 2 billion in four years.

NESPAK and the KPK Communication and Works Department inked an agreement for the "Upgradation of Bacha Khan Medical Complex to Teaching Hospital" at Swabi. The design of the project costing Rs. 1 billion has been completed and construction activities are underway.

NESPAK won design for the 580-Bed New Surgical Oncology Complex at the Jinnah Post-Graduate Medical Centre, Karachi. The services also include construction supervision for this Rs. 1 billion project. The hospital

1- Boys Hostel of Paramedical Institute at Saidu Sharif under United Arab Emirates-Pakistan Assistance Program

2- Technical Institute to College of Technology Khar, Bajaur Agency under United Arab Emirates-Pakistan Assistance Program

3- Construction of a school in progress at Khairpur District, Sindh under the Sindh Basic Education Program

1

2

An artistic view of Police Lines building at Daggar, District Buner

building with a total covered area of 18,581 square metres is likely to be completed in three years.

NESPAK has been awarded master planning, detailed design and construction supervision of the Police Lines buildings at Daggar, District Buner, Police Lines-II, Mardan and two police stations in Bannu District by the KPK Police Department. The projects will be completed at a cumulative cost of Rs. 1 billion. The Daggar Police Lines Project is being funded by the International Narcotics and Law Enforcement Affairs (INL), United States Agency for International Development (USAID).

Among the ongoing projects, as many as 1,000 facilities under the Rs. 200 billion Earthquake Reconstruction and Rehabilitation Project (ERRP) have been completed so far under NESPAK supervision while construction is in progress on the remaining facilities in the education, health, governance and allied sectors, roads, Kuwait-funded colleges and Urban Development Program. Twenty (20) Urban Development Program sub-projects under the Chinese Preferential Buyer's Credit have been completed while works are in progress under NESPAK supervision on the remaining 87 projects in three earthquake-affected cities of AJ&K.

Design and construction supervision activities for the healthcare and educational facilities financed by the United Arab Emirates-Pakistan Assistance Program (UPAP) are progressing well in South Waziristan Agency, Bajaur Agency and Swat Valley. NESPAK has designed 12 buildings and supervised the construction of four facilities under this Rs. 2 billion project awarded by the Engineer-in-Chief Branch, Pakistan Army. Design work on the second phase of Cadet College, Wana is in progress.

3

The Faisalabad Development Authority (FDA) has re-engaged NESPAK for providing master planning, detailed design and construction supervision for the FDA City, Phase-II Housing Scheme at Faisalabad. The 327-hectare project is adjacent to the ongoing FDA Housing Scheme Phase-I along the M-3 Motorway. The FDA City Housing Scheme will be completed at a cumulative cost of Rs. 8 billion.

The Punjab Government Servants Housing Foundation (PGSHF) has appreciated the master planning and design services rendered by NESPAK and subsequently awarded construction supervision of the infrastructural development works of the Rs. 1 billion Sialkot Housing Scheme, Eminabad Road.

After the successful completion of four residential towers at PNS Karsaz, Karachi for Pakistan Navy, NESPAK was re-engaged for design and construction supervision of a ground-plus-nine-floor residential tower at the Naval Residential Complex—NORE-I, Karachi. The new tower is likely to be completed in two years.

Tender drawings and cost estimates for library and teacher-student centre of the Government College University New Campus, Faisalabad were submitted to the client during the year. The conceptual design for both of the buildings has already been approved. Construction of the academic and administration blocks, girls hostel and auditorium designed by NESPAK is in progress. NESPAK is also responsible for providing planning, design and

Civil Engineering Block of Jalozai Campus at the University of Engineering and Technology, Peshawar

tender documentation services for 18 faculties being constructed under this Rs. 5 billion project.

Infrastructural works, four academic buildings and three hostels at Jalozai Campus of the University of Engineering and Technology (UET), Peshawar remained in full swing during the year under NESPAK supervision. NESPAK has also been providing planning, design and tender documentation services for this Rs. 3 billion project awarded by the UET, Peshawar.

NESPAK continued to provide master planning and design services for Daanish Schools (boys and girls high schools) at District Lodhran and Vehari along with hostels. Each of these projects will be constructed in two phases at a cumulative cost of Rs. 1 billion.

A NESPAK joint venture started milestone monitoring services for the Sindh Basic Education Program (SBEP) funded by USAID. Under the SBEP, most of the schools out of a total of 120 are being built in areas affected by the 2010 flood.

NESPAK continued planning, design, tender documentation and construction supervision for the 200-Bed Mukhtar A. Sheikh Memorial Welfare Hospital at Multan. NESPAK had won this Rs. 1 billion Public Private Partnership project assigned by the Pak-Arab Fertilizers Private Limited.

NESPAK's master plan for the Sports City Project, Narowal was approved during the year. NESPAK services include planning, design and tender documentation for this Rs. 2 billion project awarded by the Pakistan Sports Board.

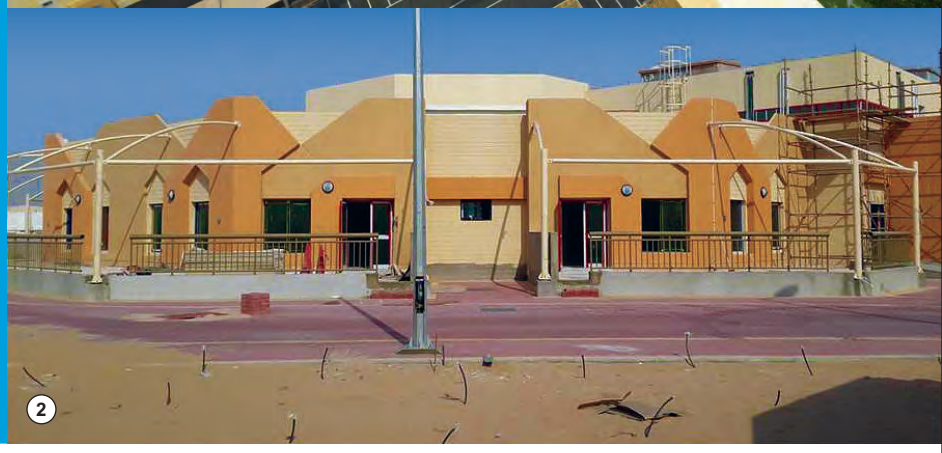
The first-of-its-kind parking facility at Bansra Gali, Murree has entered the construction stage under the supervision of the NESPAK-led joint venture with the Engineering Consultancy Services of Punjab (ECSP). The design and construction for the project awarded by the Punjab Communication and Works Department is based on green concepts i.e., use of wood, natural stones, plants etc.

The construction of a watch tower and boundary wall has

1- A conceptual view of parking facility at Bansra Gali, Murree

2- Completed EOBI House, Islamabad

3- The master plan of residential tower at Naval Residential Complex—NORE-I, Karachi



1- A conceptual view of Mesaieed Industrial City Residential Complex, Qatar

2- The view of a school under 10 Kindergarten Schools Project around Doha, Qatar

been completed on priority for the "Improvement and Reconstruction of Central Prison Peshawar" under the supervision of NESPAK. The Rs. 1 billion project awarded by the KPK Communication and Works Department is likely to be completed in 2016.

Design, master planning and construction supervision for the New Block of Judicial Complex Bannu Phase-I & II have been completed by NESPAK. The construction of the new block of Civil Judges Courts Building at Judicial Complex, Bannu is in full swing under the supervision of NESPAK. The total cost of the two projects is Rs. 600 million.

In Afghanistan, finishing works for the Rs. 1 billion Jinnah Hospital, Kabul geared up under the supervision of NESPAK. Construction work on two other projects i.e., Rs. 1 billion Naeb Aminullah Logari Hospital and Rs. 1 billion 1,000 Students Hostel for the Rehman Baba School also progressed speedily.

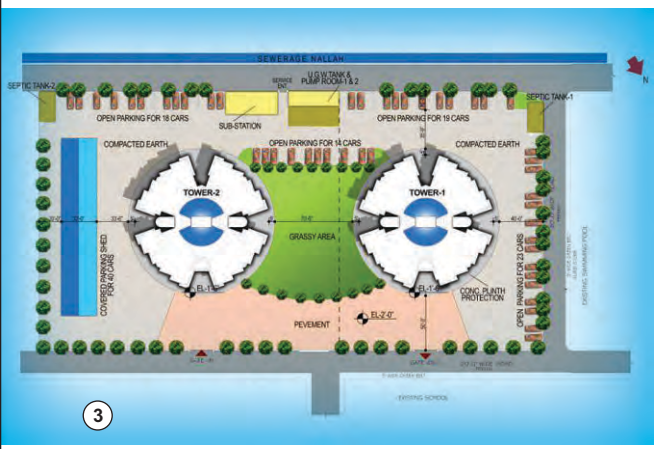
NESPAK's design for the Residential Complex at Mesaieed Industrial City, Qatar was approved by the Qatar Petroleum Industrial Cities. The US$ 102 million project has been awarded by the Qatar Real Estate Company, Alaqaria.

Work on 10 Kindergarten Schools around Doha, State of Qatar is nearing completion under the supervision of NESPAK. The US$ 71 million education project was awarded by Qatar's Public Works Authority.

Among the wrapped up projects during the year, NESPAK completed construction supervision of road network and lighting for Rs. 3 billion Satellite Town, Jhelum Phase-I. The 232-hectare scheme awarded by PRD (Pvt.) Limited has 4,250 housing units.

NESPAK completed design and construction supervision services for the high-tech ground plus nine-storeyed EOBI House, Islamabad during the year. The Rs. 1 billion office building project was awarded by the Pakistan Real Estate Management Company.

The construction supervision of civil works for the Punjab Government Servants Housing Scheme, Dera Ghazi Khan has been completed by NESPAK. The Rs. 609 million project was awarded by the Punjab Government Servants Housing Foundation.



Making Earth Liveable

Environmental and Public Health Engineering Sector

NESPAK's performance was marked by excellence in the Environmental and Public Health Engineering Sector during the year. The Company acquired 11 new projects worth Rs. 28 billion and continued services for 38 projects worth Rs. 238 billion. NESPAK completed eight projects worth Rs. 155 billion in the year 2013-14, showing professional brilliance.

Among the fresh projects during the year, NESPAK and Water and Sanitation Agency (WASA), Lahore Development Authority (LDA) signed an agreement to provide detailed design and construction supervision services for "Sewerage System in Union Councils (UCs) 117, 118 and 120, Lahore." Under the Rs. 4 billion project, a 43km reinforced cement concrete (RCC) sewer pipe will be laid in Thokar Niaz Baig and along Raiwind Road. A 150-cusec capacity lift station is also planned to be constructed at Sattukatla Drain, Raiwind Road.

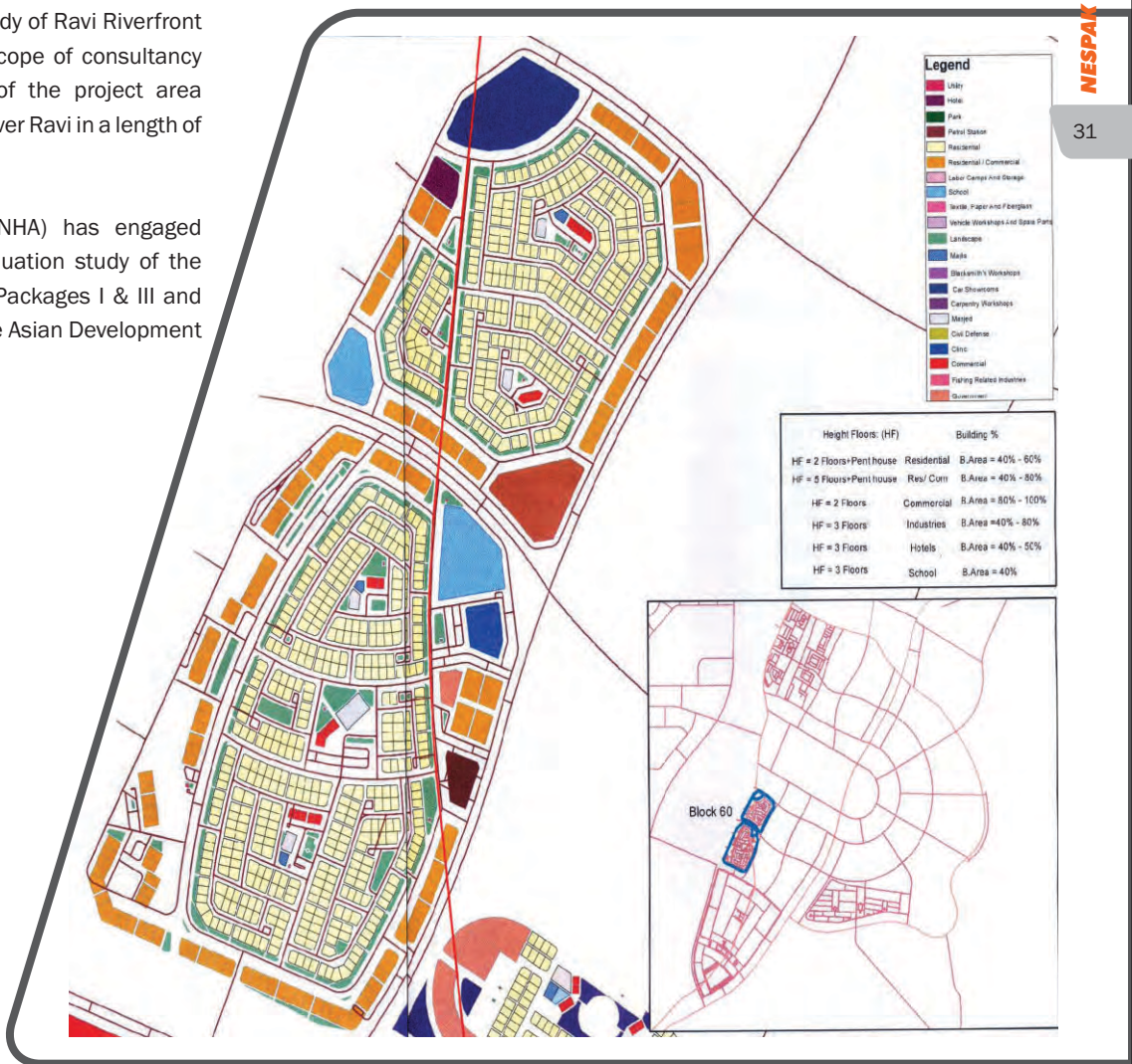
The Khyber Pakhtunkhwa (KPK) Public Health Engineering Department engaged NESPAK for detailed design and construction supervision of the Water Supply Scheme and Sanitation Projects in Swat and Kohat Circles. the Swat Circle covers Swat, Shangla, Buner and Malakand regions whereas the Kohat Circle covers Kohat, Karak and Hangu regions. The projects are expected to be completed at a cumulative cost of Rs. 1 billion in three years.

LDA entrusted NESPAK with carrying out surveys and investigations for the "Feasibility Study of Ravi Riverfront Urban Development Project." The scope of consultancy also includes topographic survey of the project area measuring 44,515 hectares along River Ravi in a length of 46 kilometres.

The National Highway Authority (NHA) has engaged NESPAK for undertaking a land valuation study of the Hasanabdal–Havellian Expressway Packages I & III and Motorway (M-4) (Sections 2 & 3). The Asian Development Bank-funded study is meant to verify gaps between the land valuation procedures in Pakistan and the ADB Policy 2009. The study will also include recommendations for future ADB projects in Pakistan.

The Focus Humanitarian Assistance Pakistan has hired NESPAK to carry out a Seismic Hazard Microzonation (SHM) study of Booni Village, District Chitral in KPK. The main objective of the project is to estimate the total seismic hazard from surface rupturing, ground shaking, landslides, rockfalls, glacial lake outburst flood, flash floods, avalanches and other related phenomenon causing threat to the village and give recommendations.

A NESPAK-led joint venture has signed an agreement with the United States Agency for International Development (USAID) to undertake an Environmental Assessment (EA) Study of the Wastewater and Drinking Water Treatment Plants in Jacobabad and a Waste Water Treatment Plant in Peshawar.



Master plan for Town of Duqm (Package-I), Oman

Main transmission line to Al-Shoaibah Plant along Al-Laith–Jeddah Road, Saudi Arabia

Overseas, NESPAK has been engaged by the Special Economic Zone Authority at Duqm (SEZAD), Sultanate of Oman for providing detailed design and construction supervision services for water supply, sewerage, stormwater drainage, roads and electrification for Residential Phases 1 & 2, Light Industries and Showrooms & Utilities in the town of Duqm (Package-I). The project costing US$ 170 million is expected to be completed in two and a half years.

Among the ongoing projects, consultancy services by NESPAK are coming to a close for the Greater Water Supply Peshawar. NESPAK has submitted detailed design, engineer's cost estimates, tender documents and PC-I for this Rs. 76 billion project awarded by the KPK Government.

Work is going well for the Quetta Water Supply and Environmental Improvement Project under the supervision of NESPAK. A check dam and the sewage treatment plant at Sabzal Road have been completed under this Rs. 17 billion project awarded by the Government of Balochistan. NESPAK services also include planning, design and tender documentation for this project of prime importance.

In the Kingdom of Saudi Arabia, M.H. Aitah-NESPAK continued providing services for "Water Transmission from Hale-Yabha-Qanunah-Al-Laith Dams to Al-Shoaibah Desalination Plant, Jeddah in Makkah Al-Mukarramah Region." The scope of services includes design review and construction supervision for the US$ 573 million project awarded by the Ministry of Water and Electricity, Riyadh. The overall work progress is showing upward swing on the Phases II, III, IV and V of this mega project.

After the successful completion of Phase-I of the "Water Transmission From Khulais and Rabigh Dams to Jeddah Project" during the year, NESPAK was awarded design review and construction supervision of “Enhanced Work—Completion Phase-I and Phase-II” by the Ministry of Water and Electricity, Kingdom of Saudi Arabia. Construction of two groundwater reservoirs, laying of two transmission mains and a water treatment plant under

1- Water treatment plant at Hale Dam under Hale-Yabha-Qanunah-Al-Laith Dams Water Transmission Project, Saudi Arabia

2- A view of the completed sewage treatment plant at Sabzal Road under the Quetta Water Supply and Environmental Improvement Project

3- Testing in progress under the Greater Water Supply Scheme Peshawar–Phase I

Construction of ground water reservoir in progress at Raheli along Jeddah-Rabigh Road, Saudi Arabia under 'Enhanced Work–Completion Phase-I and Phase-II Project'

the enhanced scope of work is progressing well under NESPAK supervision. The cumulative cost of the project is US$ 270 million.

Among the wrapped up projects during the year, work on "Rehabilitation/Improvement of Existing Multan Road Project" has been substantially completed under the supervision of NESPAK. Under the project, 72" i/d sewer pipe was laid using jacking/boring techniques for the first time in Pakistan. An RCC conduit and a disposal pumping station at the Kattar Band Road have also been constructed as part of this Rs. 2 billion project.

NESPAK has carried out an EIA of 1320MW Coal-Fired Power Plant near Sahiwal. It is the first EIA study for a coal-based project by NESPAK. The EIA study included document review, baseline data, environment & social impacts, public consultations with stakeholders, mitigation measures, environmental management plan, public hearing and finalisation of EIA Report. No Objection Certificate (NOC) has been issued for this project awarded by the Punjab Environmental Protection Agency (PEPA).

NESPAK in a joint venture has successfully completed the "Environmental Assessment of Kurram Tangi Dam Construction Project." The Client, USAID, approved the Environmental and Social Impact Assessment of this Rs. 60 billion dam project located in North Waziristan Agency, Federally Administered Tribal Areas (FATA) near Bannu City in KPK.

NESPAK has carried out an EIA of the signal-free facilities at three junctions in Lahore. The Environmental Protection Department (EPD), Punjab has approved the EIA study awarded by the Traffic Engineering and Transport Planning Agency (TEPA), LDA.

NESPAK has completed two different EIA studies for the Rawalpindi-Islamabad Metro Bus System, which have been approved by both Punjab and Federal Environment Protection Agencies. Environmental compliance of the project is also being supervised by NESPAK to implement the Environmental Management Plan.

3

Striving for Better Days

Oil, Gas and Industrial Sector

The performance of NESPAK in the Oil, Gas and Industrial Sector remained adequate during the fiscal 2013-14. The Company acquired four new projects, continued consultancy services for nine projects and completed two projects during the year.

Under-construction Big Bird Poultry Processing Plant building, Kasur

Among the fresh projects during the year, NESPAK was engaged for "Master Planning and Detailed Design for Development of Quaid-e-Azam Apparel Park, Punjab" to be established at Motorway (M-2), District Sheikhupura. The scope includes infrastructural works, water supply & wastewater networks and environmental impact studies. The project has been awarded by the Punjab Industrial Estate Development and Management Company (PIEDMC).

NESPAK has been hired for tender documentation and construction supervision of the project titled "Treatment of Land Sliding Problem of Rawat-Murree Pipeline." The 13" diametre Rawat-Muree transmission pipeline of Sui Northern Gas Pipelines Limited (SNGPL) had suffered lateral deflection and loss of soil cover due to the sliding of loose material along steep slope adjacent to Islamabad-Murree Expressway.

Among the ongoing projects, NESPAK continued to supervise construction for the Rs. 4 billion Korangi Creek Industrial Park (KCIP), Karachi. During the year, NESPAK was re-engaged to design the National Industrial Park (NIP) head office building to be constructed at the KCIP site. NESPAK's design has been approved by the NIP Board of Management and preparation of tender documents is underway.

The Big Bird Poultry Processing Plant, Kasur is nearing completion at a good pace of progress under the supervision of NESPAK. The Rs. 1 billion project awarded by the Big Bird Food (Pvt.) Limited is expected to be completed as scheduled. The poultry processing plant is proposed to be a combination of the pre-engineered building structure and reinforced concrete cement (RCC) frame structure, including ancillary buildings.

The first phase of the feasibility study for the "Exploration of Barite-Lead-Zinc Ore Deposits at Gunga, Khuzdar, Balochistan" was successfully completed during the year. The accomplished tasks include review and evaluation of previous investigations, checking and updating of the geological mapping, planning and supervision of additional 2,100 metres core drilling involving 9 drill holes, preparation of samples for chemical and Bench Scale testing. The 3D geological modelling for lead, zinc and barite resource estimation is in progress. The project has been undertaken by NESPAK in association with a German firm for the Bolan Mining Enterprises, Quetta.

Civil works were completed for the Concrete Silos for Wheat Storage at Mana Ahmadani, Dera Ghazi Khan under the supervision of NESPAK. Currently, procurement of equipment is underway for the project awarded by the Punjab Food Department.

NESPAK has submitted feasibility report and preliminary engineering design for the proposed Pind Dadan Khan Industrial City to the PIEDMC.

1- An artistic view of National Industrial Park head office building under the Korangi Creek Industrial Park Project, Karachi

2- Work underway for Exploration of Barite-Lead-Zinc Ore Deposits in Khuzdar, Balochistan

Structuring Infosystems

Information Technology and GIS Sector

NESPAK performed satisfactorily in the Information Technology (IT) and Geographical Information System (GIS) Sector during the year. It is hoped that IT services in the field of water resources development will open new vistas of business for NESPAK. The provision of GIS services to the Pakistan Power Park, Gaddani will also help invite fresh business for the Company.

Among the fresh projects during the year, NESPAK in association with a German firm was entrusted with the task of "Development of Water Resources Management Information System (WRMIS) and Decision Support System (DSS) for Efficient Irrigation Water Management in Punjab (Task-A and D)" through Quality Based Selection (QBS) of the World Bank. The WRMIS Project involves hydrology, hydraulics and Management Information System (MIS)-Geographical Information System (GIS)/remote sensing in an automated web-based application.

Under this project, web-based WRMIS application will be developed to integrate hydrological and hydraulic modelling tools. The application will provide an intelligent DSS to support decision makers in making informed decisions. For the first time, a unique combination of GIS software and hydrology modelling tools will be utilised for real-time canal operational model.

Among the ongoing projects, "Development of GIS/MIS Centre and Decision Support System to Enhance the Capacity of Indus River System Authority (IRSA-I)" has entered the completion phase. The MIS/Web GIS application development has been completed while a data centre is being established at the IRSA Office, Islamabad for deploying the developed application.

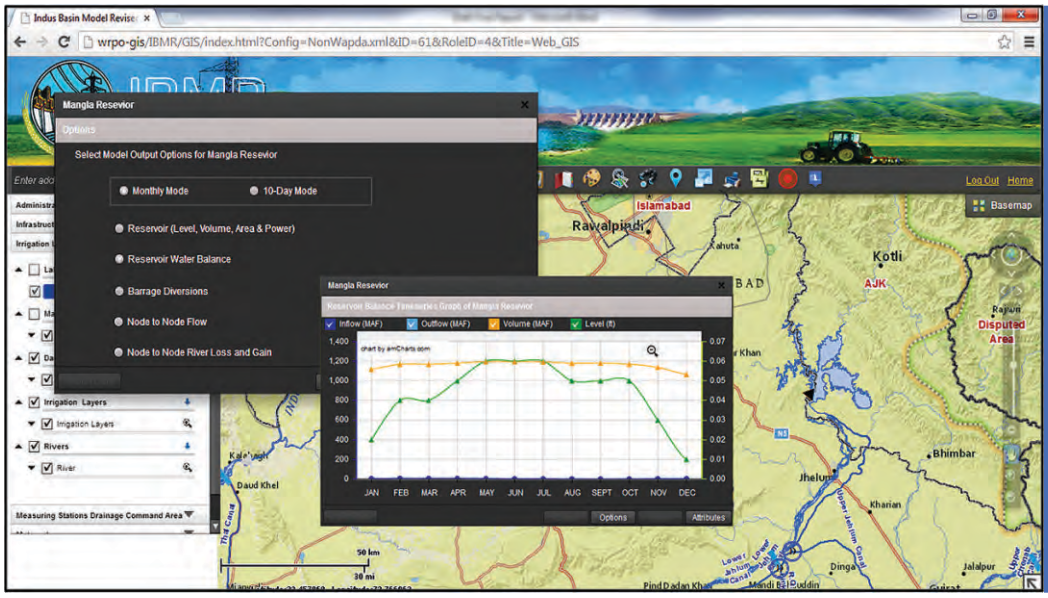
Animated mockup application and detailed requirement specifications document have been approved for the "Development of National Flood Protection Plan-IV and Related Studies to Enhance Capacity Building of the Federal Flood Commission (FFC)." The MIS/GIS application is in development stage while bidding and procurement documents are under preparation for the establishment of a data centre at the FFC Office, Islamabad.

Among the wrapped up projects during the year, NESPAK successfully completed "Upgrading of Tools, Water Resources Database, Management Systems and Models under Sub-Component 'B1' of the Water Sector Capacity Building and Advisory Services Project (WCAP)." The project involved an integrated system of MIS, Web GIS, GIS and Indus Basin Model Revised (IBMR) Model operation based on General Algebraic Modelling System (GAMS). The updated model will be utilised in water resource planning and optimisation.

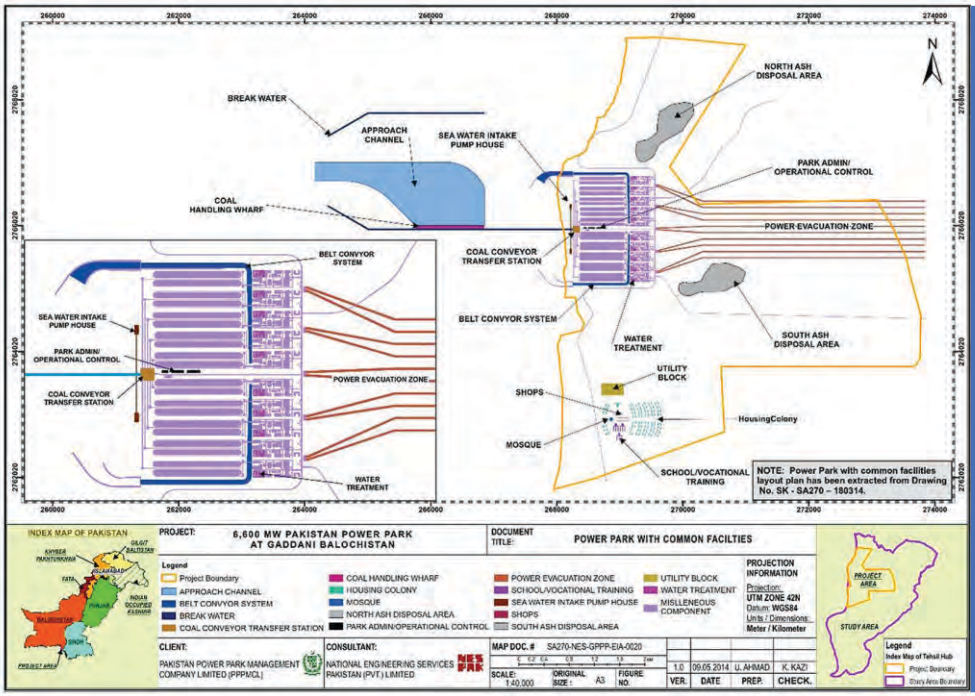
Geographical Information System

Among the fresh projects during the year, NESPAK was engaged for the Environmental Assessment (EA) of Pakistan Power Park Project, Gaddani. Under the project, GIS is being used for developing land use, environment, geology and other datasets for analysis, interpretation and impact identification. Different layers containing various levels of information are being developed to analyse terrain and perform related geo-spatial analysis for this project of national strategic importance. Maps are being developed, depicting different levels of information.

Among the ongoing projects, NESPAK continued providing GIS-related services for one of the most



Display of IBMR Model outputs in graphical format



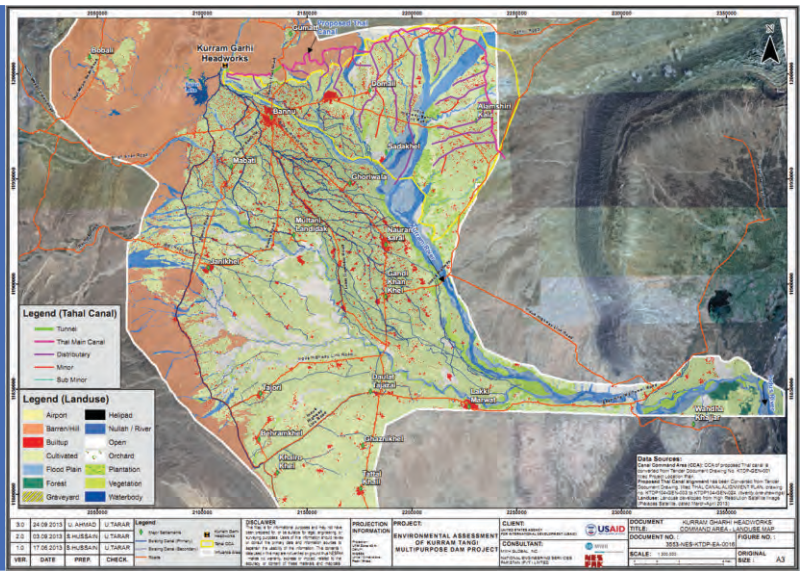
A map of facilities at 6,600MW Pakistan Power Park at Gaddani, Balochistan

important international project i.e., the Iran-Pakistan Gas Pipeline Project awarded by the Inter State Gas System (Pvt.) Limited. During the year, NESPAK plied re-routing for the Iran-Pakistan Gas Pipeline Project in the Balochistan Section according to the international practices by involving detailed GIS database of all relevant specialties. The GIS-based Disaster Risk Management studies, route alignment and detail topographic survey for the proposed Liquefied Natural Gas (LNG) Terminal at the Gwadar Port are in progress under this project.

During the year, NESPAK developed an Integrated Information System (IIS) based on the MIS and GIS for the Sindh Water Sector Improvement Project Phase-I (WSIP-I). The IIS consists of both spatial and non-spatial datasets of key performance indicators (KPIs) of project components linked with the geo-database to locate critical performance areas and disseminate information to stakeholders through a web mapping application.

Among the wrapped up projects during the year, NESPAK developed a GIS database for land use, environmental, hydrological and geological hazards along with the processing of Pleiades Satellite Imagery under the Environmental Assessment of Kurram Tangi Dam Project. All the drawings developed previously by the design consultant had been transformed into GIS for analyses and interpretation. Plain table survey sheets developed during the 1980s were geo-referenced and information was extracted for further study and investigation. Almost 100 map layouts were prepared, depicting information related to various segments of the project.

Kurram Tangi Dam command area land use map



LIST OF MAJOR NEW, ONGOING AND COMPLETED PROJECTS

a) **Feasibility Study**
b) **Project Planning**
c) **Detailed Design**
d) **Tender Documents**
e) **Construction Supervision**
f) **Design Review/Evaluation**

PROJECT	LOCATION	CLIENT	SCOPE OF WORK	COST Rs. Million/ US$ Million
Energy Sector				
Important New Projects				
6,600MW Pakistan Power Park at Gaddani, Balochistan	Pakistan	Pakistan Power Park Management Company Limited	a b c d e	571,800 5,568
220/132kV Air Insulated Switchgear Grid Station Dera Murad Jamali (New), Balochistan	Pakistan	National Transmission & Despatch Company	e	2,000 19
Major Ongoing Projects				
969MW Neelum–Jhelum Hydroelectric Project	Pakistan	Water and Power Development Authority	e f	274,883 4,268
747MW Combined Cycle Power Plant, Guddu	Pakistan	Central Power Generation Company Limited	e f	62,000 620
425MW Combined Cycle Power Plant, Nandipur	Pakistan	Northern Power Generation Company Limited	d e f	58,000 580
Transmission Line for Neelum-Jhelum Power Dispersal	Pakistan	National Transmission & Despatch Company	d e f	21,668 258
500kV Transmission Line 3rd Circuit Jamshoro-Matiari-Moro-Dadu-Rahim Yar Khan and Moro Substation	Pakistan	National Transmission & Despatch Company	d e f	24,942 300
Bin Qasim Power Station-I Coal Conversion Project	Pakistan	K-Energy (Pvt.) Limited	d e f	28,000 273
Load Despatch System Upgrading Project	Pakistan	National Transmission & Despatch Company	d e f	4,000 51
Refurbishment/Upgradation of Generating Units at Mangla Power Station	Pakistan	Water & Power Development Authority	a d f	43,263 506
Services for Various Power Plants and Transmission Line Projects	Saudi Arabia	Saudi Electricity Company–Eastern Operating Area	a c d	33,700 376
180MW Al-Wadjh Power Plant Extension Project and 120MW Tabouk Power Plant Extension Project (Stage-VIII)	Saudi Arabia	Saudi Electricity Company–Western Operating Area	e	23,826 232
Riyadh Power Plant No. 10	Saudi Arabia	Saudi Electricity Company–Central Operating Area	e	414,371 4,272
Major Completed Projects				
Rehabilitation of 22MW Jabban Hydroelectric Power Station	Pakistan	Water & Power Development Authority	c d e f	2,600 43
96MW Jinnah Hydropower Project	Pakistan	Water & Power Development Authority	e f	8,800 128
Water Resources Development and Dam Engineering Sector				
Important New Projects				
Pakpattan Canal and Suleimanki Barrage Improvement Project	Pakistan	Irrigation Department, Government of the Punjab	e	7,830 76
Jalalpur Irrigation Project	Pakistan	Asian Development Bank	a c	7,000 68
Irrigation Packages 4, 7 & 12, Khyber Pakhtunkhwa	Pakistan	Irrigation Department, Government of Khyber Pakhtunkhwa	c e	3,016 29
Ghabir Dam, Chakwal	Pakistan	Water & Power Development Authority	e	9,000 88
Zarqa Ma'een Dam	Jordan	Jordan Valley Authority of the Ministry of Water & Irrigation	e	2,054 20
Major Ongoing Projects				
Rehabilitation of Irrigation Systems in Punjab	Pakistan	Irrigation & Power Department, Government of the Punjab	e f	28,000 337

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PROJECT	LOCATION	CLIENT	SCOPE OF WORK	COST Rs. Million/ US$ Million
Sindh Water Sector Improvement Project-I	Pakistan	Planning & Development Department, Government of Sindh	Monitoring & Evaluation	18,000 217
Rehabilitating Lower Chenab Canal Project	Pakistan	Punjab Irrigation & Drainage Authority	c d e	12,453 205
Mangla Dam Raising Project	Pakistan	Water & Power Development Authority	a c d e	102,000 1,295
Punjab Irrigated Agriculture Investment Program	Pakistan	Irrigation & Power Department, Government of the Punjab	a c d	275,800 3,501
Kachhi Canal Project	Pakistan	Water & Power Development Authority	b c e	57,000 993
Lining of Distributaries and Minors in Sindh Province	Pakistan	Irrigation & Power Department, Government of Sindh	c d e	13,828 228
Rehabilitation and Upgradation of Balloki Barrage and Lower Bari Doab Canal System	Pakistan	Irrigation & Power Department, Government of the Punjab	c d e	17,176 218
Punjab Irrigated Agriculture Productivity Improvement Project	Pakistan	Agriculture Department, Government of the Punjab	c e	36,000 372
Mega Irrigation Project, Punjab	Pakistan	Irrigation & Power Department, Government of the Punjab	e f	52,000 887
Remodelling of Warsak Canal System in Peshawar and Nowshera Districts	Pakistan	Irrigation Department, Government of Khyber Pakhtunkhwa	c e	11,000 123
Rehabilitation and Modernization of Jinnah Barrage under Punjab Barrages Punjab Improvement-Phase-II	Pakistan	Irrigation & Power Department, Government of the Punjab	e f	11,794 138
Assuring Water Supply to Karachi by Upgrading Keenjhar Lake System	Pakistan	Irrigation & Power Department, Government of Sindh	a b c d e	3,423 57
Bakhshabad (Farah Rud) Multipurpose Dam Project	Afghanistan	Ministry of Energy & Water	c d	41,183 401
On-Farm Water Management Project	Afghanistan	Ministry of Agriculture, Irrigation & Livestock	c d e	3,854 43
Dams in Southern Region (Jizan, Aseer and Najran)	Saudi Arabia	Ministry of Water & Electricity	e f	11,550 129
Qanunah and Yabha Dams	Saudi Arabia	Ministry of Water & Electricity	e	7,800 87
Major Completed Projects				
Attabad Landslide Dam Lake	Pakistan	Planning Commission, Government of Pakistan	a e	995 11
Ganges Barrage Project–Phase-II	Bangladesh	Bangladesh Water Development Board	a c	N.A N.A

Highways and Transportation Engineering Sector

Important New Projects

Rawalpindi-Islamabad Metro Bus Project	Pakistan	Rawalpindi Development Authority	c e	45,000 438
Dualization of Road Along Cantonament Drain from LOS Ferozepur Road to Multan Road, Lahore	Pakistan	Lahore Development Authority	c e	1,985 19
Improvement/Rehabilitation of Sundar-Raiwind and Manga-Raiwind Roads	Pakistan	Lahore Ring Road Authority, Government of the Punjab	c e	1,200 12
Flyover (complete signal-free interchange) at Aziz Cross, Gujranwala	Pakistan	Communication & Works Department, Government of the Punjab	c e	5,954 58
Bisya-Tawi Jiwar-Al-Rsais Road in Wilayat Bahla	Oman	Ministry of Transport & Communications	c d e	N.A N.A
Roads on Southern Breakwater in Sohar Industrial Port Area	Oman	Ministry of Transport & Communications	e	N.A N.A
Al-Nuzha Road in Sohar	Oman	Diwan of Royal Court Sohar Municipality	c e	N.A N.A

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PROJECT	LOCATION	CLIENT	SCOPE OF WORK	COST Rs. Million/ US$ Million
Major Ongoing Projects				
Lahore Ring Road Project (Northern Loop-40km)	Pakistan	Communication & Works Department, Government of the Punjab	a b c d e	72,000 1,212
Metro Bus System, Lahore with Interchange at Azadi Chowk, Qainchi, Khaira, Ghazi Road	Pakistan	Lahore Development Authority	c d e	38,000 424
Shatial-Thor Nullah Bypass	Pakistan	National Highway Authority	c e	3,844 40
Khanewal to Multan Section of M-4 Motorway (57km)	Pakistan	National Highway Authority	e f	13,000 145
Khyber Pakhtunkhwa Emergency Rural Road Rehabilitation Project	Pakistan	Communication & Works Department, Government of Khyber Pakhtunkhwa	a b c d e f	14,700 164
Quick Impact Projects in North and South Waziristan Agencies	Pakistan	Frontier Works Organization	a c e Quality Assurance	21,888 261
Upgradation and Widening of Surab-Basima-Nag-Panjgur-Hoshab Section of N-85 (459km)	Pakistan	National Highway Authority	e f	117,000 1,940
West Bank Bypass Project at Muzaffarabad, Azad Jammu and Kashmir	Pakistan	National Highway Authority	e f	2,000 24
Highways Falling Under CSP-2 Sukkar-Jacobabad (N-65)	Pakistan	National Highway Authority	e	10,000 165
Rathoa Haryam Bridge Across Reservoir Channel on Mirpur Islamgarh Road, Azad Jammu and Kashmir	Pakistan	Public Works Department, Government of Azad Jammu & Kashmir	e	5,000 56
Bus Rapid Transit System-Yellow Line, Karachi under Public Private Partnership Mode	Pakistan	Karachi Metropolitan Corporation	a	14,000 145
Al-Batinah Coastal Road	Oman	Ministry of Transport & Communications	c e	84,000 1,400
Ibri-Dariz-Miskin Road	Oman	Ministry of Transport & Communications	c e	5,731 96
Nizwa-Thumrait Road Stage-IV (Part-II)	Oman	Ministry of Transport & Communications	e	5,525 62
Major Completed Projects				
Improvement of Karakorum Highway from Raikot to Khunjerab (335km)	Pakistan	National Highway Authority	e f	45,000 571

Airports

Important New Projects

Mirpur Khas Khipro Airstrip near Tando Adam	Pakistan	United Energy Pakistan (Pvt.) Limited	b c d e	1,500 15

Major Ongoing Projects

New Gwadar International Airport	Pakistan	Civil Aviation Authority	b c d e	25,000 317
New Benazir Bhutto International Airport, Islamabad	Pakistan	Civil Aviation Authority	c d e	60,000 714

Ports and Harbours

Major Ongoing Projects

Establishment of Coal, Clinker and Cement Terminal on BOT basis at Port Qasim, Karachi	Pakistan	Port Qasim Authority	e f Audit	11,000 114
Marine and General Civil Works for Ship Lift and Transfer System at KS&EW, Karachi	Pakistan	Karachi Shipyard and Engineering Works	e	4,000 39
Reconstruction of Pilot Pier at Manora	Pakistan	Karachi Port Trust	c d e	285 3
Marine and Land Works at Fishing Port-Hodeidah	Yemen	Ministry of Fish Wealth	e f	1,300 13

a) Feasibility Study
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PROJECT	LOCATION	CLIENT	SCOPE OF WORK	COST Rs. Million/ US$ Million
Major Completed Projects				
Development of Al-Ruwais Port (Package-II)	Qatar	Private Engineering Office	e	1,009 10
Al-Khawabah Fishery Port Improvement Project	Yemen	Ministry of Fish Wealth	e f	N.A N.A

Architecture and Planning Sector

Important New Projects				
Crescent Bay Development Project, Karachi	Pakistan	EMAAR Giga Karachi Limited	e f	246,000 2,395
Khawaja Fareed University of Engineering and Information Technology, Rahim Yar Khan	Pakistan	Khawaja Fareed University of Engineering & Information Technology, Rahim Yar Khan	c d e	3,900 38
University of Engineering and Technology Lahore, Narowal Campus	Pakistan	University of Engineering & Technology, Lahore	b c d e	2,800 27
Development Projects of Workers Welfare Board, Balochistan	Pakistan	Workers Welfare Board, Government of Balochistan	b c e	750 7
Police Lines Daggar at District Buner	Pakistan	Police Department, Government of Khyber Pakhtunkhwa	b c e	750 7
Upgradation of the UCET into Mirpur University of Science & Technology, Azad Jammu and Kashmir	Pakistan	Mirpur University of Science & Technology	e f	995 10
New Surgical Block at Jinnah Post-Graduate Medical Centre, Karachi	Pakistan	Jinnah Post-Graduate Medical Centre, Karachi	c e	1,000 10
Landscape, Infrastructure and Traffic Study for World Trade Centre at DHA Phase-II, Islamabad	Pakistan	Al-Ghurair Giga (Pvt.) Limited, Islamabad	c e f	41,080 400
Upgradation of Bacha Khan Medical Complex for Teaching Purpose, Swabi	Pakistan	Communication & Works Department, Government of Khyber Pakhtunkhwa	c d e	1,000 10
Canyon Views Development Project, Islamabad	Pakistan	EMAAR DHA Islamabad Limited	e	N.A N.A
Three Convenience Stores Leabaib, Jeryan, Junaihat and Al-Saileyah	Qatar	Al-Meera Consumer Goods, Doha, Qatar	c d	2,668 26
Major Ongoing Projects				
Earthquake Reconstruction and Rehabilitation Project	Pakistan	Earthquake Reconstruction & Rehabilitation Authority	b c d e f General Consultancy	200,000 3,324
Milestone Monitoring Services for Construction of Schools in Sindh	Pakistan	United States Agency for International Development	e	8,319 81
200-Bed Mukhtar A. Sheikh Hospital at Multan	Pakistan	Pak-Arab Fertilizers (Pvt.) Limited	c e	1,339 15
Daanish Schools at District Lodhran and Vehari	Pakistan	Punjab Daanish School System & Centers of Excellence Authority, Govt of the Punjab	b c e	1,000 12
Institute of Urology and Transplantation at Rawalpindi	Pakistan	Communication & Works Department, Government of the Punjab	c e	3,334 34
Sports City, Narowal	Pakistan	Pakistan Sports Board	c d e	1,500 18
Private Power and Infrastructure Board Office Building, Islamabad	Pakistan	Private Power & Infrastructure Board, Government of Pakistan	b c d e	900 10
G.C. University Faisalabad New Campus, Jhang Road	Pakistan	Government College University, Faisalabad	b c d e	4,500 79
FDA City Housing Scheme at Faisalabad	Pakistan	Faisalabad Development Authority	b c d e	11,000 184
Jalozai Campus of University of Engineering and Technology, Peshawar	Pakistan	University of Engineering & Technology, Peshawar	b c d e	3,000 47
Ashiana Housing Scheme at Attari Saroba, Lahore	Pakistan	Punjab Land Development Company, Government of the Punjab	e	2,600 30
Sheikh Zayed Medical Complex, Phase-II Rahim Yar Khan	Pakistan	Sheikh Zayed Medical Complex, Rahim Yar Khan	e	3,200 37

a) **Feasibility Study**
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PROJECT	LOCATION	CLIENT	SCOPE OF WORK	COST Rs. Million/ US$ Million
Educational and Health Facilities in South Waziristan Agency, Bajaur Agency and Swat Valley under UAE-Pakistan Assistance Program	Pakistan	Engineer-in-Chief Branch, Pakistan Army	c e	2,000 22
Improvement and Reconstruction of Central Prison, Peshawar	Pakistan	Communication & Works Department, Khyber Pakhtunkhwa	e	1,321 14
Police Lines-II, Mardan	Pakistan	Police Department, Government of Khyber Pakhtunkhwa	a b c e	500 5
Punjab Government Servants Housing Scheme, Sialkot	Pakistan	Punjab Government Servants Housing Foundation, Lahore	b c e	1,038 11
Naeb Aminullah Khan Logari Hospital at Logar	Afghanistan	Planning Commission, Government of Pakistan	b c d e	1,077 14
Jinnah Hospital, Kabul	Afghanistan	Planning Commission, Government of Pakistan	b c d e	1,087 18
1000 Students Hostel of Rehman Baba School, Kabul	Afghanistan	Planning Commission, Government of Pakistan	b c d e	952 12
120-Bed Hospital at Anjouan Island Al-Thani Charitable Foundation	Comoros Island	Sheikh Jassim Bin Jabor Bin Mohammed	e	4,352 45
Construction of 10 Kindergarten Schools around Doha	Qatar	Public Works Authority	e f	6,866 71
Residential Complex at Mesaieed Industrial City	Qatar	Qatar Real Estate Investment Company	c	9,863 102
Major Completed Projects				
Punjab Government Servants Housing Scheme at Kotla Sukhani Gharbi, Dera Ghazi Khan	Pakistan	Punjab Government Employees Cooperative Housing Society, Lahore	b c d e	609 10
Satellite Town (Phase-I), Jhelum	Pakistan	PRD (Pvt.) Limited, Lahore	e	3,000 31

Environmental and Public Health Engineering Sector

Important New Projects				
Provision of Sewerage System for UCs-117, 118 & 120, Lahore	Pakistan	Water and Sanitation Agency, Lahore	c e	3,409 33
Ravi Riverfront Urban Development Project	Pakistan	Lahore Development Authority	Survey	1,027,000 10,000
Environment Assessment for Drinking Water & Wastewater Treatment Plants in Jacobabad and Peshawar	Pakistan	United States Agency for International Development	EIA Study	N.A N.A
Water Supply Scheme and Sanitation Projects at Swat and Kohat Cirlcles	Pakistan	Public Health Engineering Department, Government of Khyber Pakhtunkhwa	c e	1,086 11
Water Supply, Sewerage, Stormwater Drainage, Roads and Electrification for Duqm Town	Oman	Special Economic Zone Authority, Duqm	c e	24,600 240
Major Ongoing Projects				
Greater Water Supply Scheme, Peshawar	Pakistan	Public Health Engineering Department, Government of Khyber Pakhtunkhwa	a c d EIA Study	76,000 889
Quetta Water Supply and Environmental Improvement Project	Pakistan	Project Management Unit, Government of Balochistan	b c d e	17,093 287
Construction of Landfill Site at Lakhodair, Lahore	Pakistan	Lahore Waste Management Company	e f	1,700 18
Transmission of Water from Khulais and Rabigh Dams to Jeddah in Makkah Al-Mukarramah Region	Saudi Arabia	Ministry of Water & Electricity	e f	22,715 270
Water Transmission from Hale, Yabah, Qanunah and Al-Laith Dams to Al-Shoaibah Desalination Plant, Jeddah in Makkah Al-Mukarramah Region	Saudi Arabia	Ministry of Water & Electricity	e f	55,900 573
Stormwater Drainage and Avoiding Flood Danger for Abu Arish City in Jizan Region	Saudi Arabia	Ministry of Municipal & Rural Affairs	a c d	8,989 93

a) Feasibility Study **c) Detailed Design** **e) Construction Supervision**
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PROJECT	LOCATION	CLIENT	SCOPE OF WORK	COST Rs. Million/ US$ Million
Major Completed Projects				
Environmental Assessment of Kurram Tangi Dam	Pakistan	United States Agency for International Development	EIA Study	59,000 610
Water Supply, Sewerage and Drainage Works for Chauburji to Thokar Niaz Baig Section of Lahore-Multan Road	Pakistan	Communication & Works Department, Government of the Punjab	c d e	1,726 21

Oil, Gas and Industrial Sector

Important New Projects				
Treatment of Land Sliding Problem for 12" Dia Rawat-Murree Pipeline	Pakistan	Sui Northern Gas Pipelines Limited	c 1. Investigations 2. Testing	N.A N.A
Quaid-e-Azam Apparel Park at 38km M-2, Sheikhupura	Pakistan	Punjab Industrial Estate Development and Management Company	a b c	N.A N.A
Major Ongoing Projects				
Korangi Creek Industrial Park, Karachi	Pakistan	National Industrial Parks Development and Management Company, Karachi	b c d e	4,000 66
Concrete Silos for Wheat Storage at Mana Ahmadani, Dera Ghazi Khan	Pakistan	Food Department, Government of the Punjab	e	274 3
Exploration of Barite-Lead-Zinc Ore Deposits at Gunga, Khuzdar, Balochistan	Pakistan	Bolan Mining Enterprise, Balochistan	a b Investigations	N.A N.A
Pind Dadan Khan Industrial Estate	Pakistan	Punjab Industrial Estate Development and Management Company	a c	N.A N.A
Big Bird Foods Poultry Processing Plant and Ancillary Buildings, Kasur	Pakistan	Big Bird Foods (Pvt.) Limited	e	1,000 10

a) Feasibility Study **b) Project Planning** **c) Detailed Design**
d) Tender Documents **e) Construction Supervision** **f) Design Review**
g) Software Requirement Specification **h) Functional Specifications Document** **i) System Study Design**
j) Software Development **k) Testing, Debugging and Implementation** **l) Documentation and Training**
m) Satellite Imagery **n) Map Digitisation** **o) Digital Terrain Model**
p) Global Positioning System Survey **q) GIS Database and Model Development** **r) Map Analysis**
s) Evaluation/Validation

Information Technology and Geographical Information System Sector

Important New Projects				
Efficient Irrigation Water Management in Punjab	Pakistan	Irrigation Department, Government of the Punjab	b c f j m q	N.A N.A
Improvement of Water Resources Management of Indus Basin to Enhance Capacity of Indus River System Authority	Pakistan	Indus River System Authority	1. Flow Measurement 2. Snowmelt Modelling	161 2
Major Ongoing Projects				
Development of National Flood Protection Plan-IV and Related Studies to Enhance Capacity Building of Federal Flood Commission	Pakistan	Project Management & Policy Implementation Unit Ministry of Water & Power, Government of Pakistan	b h j k l n q	N.A N.A
Development of GIS/MIS Centre and Decision Support System to Enhance Capacity of Indus River System Authority	Pakistan	Indus River System Authority	h j k l m n o q r	N.A N.A
Iran-Pakistan Gas Pipeline Project	Pakistan	Inter State Gas System (Pvt.) Limited	b c d m n p r	142,000 1,660
Sindh Water Sector Improvement Project-I	Pakistan	Planning & Development Department, Government of Sindh	j k l m n p q	18,000 206
Major Completed Projects				
Upgrading of Tools, Water Resources Database, Management System and Model Under Sub Component 'B1' of WCAP	Pakistan	Water & Power Development Authority	j m n q	N.A N.A

National Engineering Services Pakistan (Pvt.) Limited
(Consulting Engineers)

1. *NESPAK House: 1-C, Block-N, Model Town Extension, Lahore-54700, Pakistan*
   PABX: +92 42 99090000 Fax: +92 42 99231950 P.O.Box: 1351
   E-mail: info@nespak.com.pk Website: www.nespak.com.pk

2. *IEEEP Building, 17-C-1, Civic Centre, Faisal Town Lahore-54700, Pakistan*
   PABX: +92 42 99232261-74 Fax: +92 42 99232275 P.O.Box: 1351

FOREIGN REGIONAL OFFICES

Kingdom of Saudi Arabia
Office#2, First Floor, Ibrahim Muhammad
Al-Moosa Commercial Complex
Abdul Aziz Bin Masaad Bin Jalwi Road
(Dabbab Road) Riyadh
P.O.Box 50344, Riyadh 11523
Phone: +966-11-4052297, 4059583
Fax: +966-11-4051031
E-mail: nespaksa@gmail.com

Sultanate of Oman
NESPAK & Partners LLC
P.O. Box 3506, Postal Code: 112
Ruwi Muscat, Sultanate of Oman
Phone: +968-24789668, 24701729
Mobile: +968-91275391
Fax: +968-24703702
E-mail: <nespak@omantel.net.om>
<moodi58@hotmail.com>

Islamic Republic of Iran
Unit No. 6, Block No. 82, 35 meter Golestan Street between Adl Square and Sardare Jangal Street, Pounak Avenue, Tehran - Iran
Phone: +98-21-44441479
Fax: +98-21-44441479
E-mail: <nespak.roi@gmail.com>
<bjavid51@gmail.com>

State of Qatar
14 Cleopatra Building, Musherib
P.O. Box: 32057, Doha, Qatar
Phone: +974-44429696
Fax: +974-44429969
E-mail: <qatar@nespak.com.pk>
<khalidkhan@nespak-qatar.com>
<kikhann@yahoo.com>

Islamic Republic of Afghanistan
House No. 250, District (Nahiya) 10
Street No. 16, Wazir Akbar Khan, Kabul, Afghanistan
Phone: +93-0-20-2312966
Fax: +93-0-20-2312967
Mobile: +93-797284707/0093-789767783
E-mail: <nespak_af@yahoo.com>
<nespak_af@hotmail.com>

United Kingdom
NESPAK UK Limited, Parkview 183-189
The Vale, London, UK W3 7RW
Tel: +44-2088111188
Fax: +44-2088111189
Email: nespakuk@gmail.com

LOCAL REGIONAL OFFICES

Karachi: *13th Floor, NICL Building*
Abbasi Shaheed Road
Off. Shahrah-e-Faisal, Karachi
Phone: +92-21-99207277-84
Fax: +92-21-35651994
E-mail: <karachi@nespak.com.pk>
<nespakkh@khi.wol.net.pk>

Islamabad: *NESPAK House*
Sector-G, 5/2, P.O. Box 2461
Phone: +92-51-9221910-13
Fax: +92-51-9221914
E-mail: nespak@cyber.net.pk

Quetta: *House No. 18-19B, Street No. 2 Phase-3*
Shahbaz Town, Quetta Cantt.
Phone: +92-81-9202454, 9201707
Fax: +92-81-9202982
E-mail: roquetta@nespak.com.pk

Peshawar: *NESPAK House*
24, Sector B-2, Phase V, Hayatabad, Peshawar
Phone: +92-91-5828478-79, 5828481
5837220
Fax: +92-91-5828482
E-mail: nespakp@gmail.com

ASSOCIATED COMPANIES

Turkpak International (Pvt.) Limited
IEEEP Building, 17-C-1, Civic Centre
Faisal Town, Lahore-54700, Pakistan
Ph: +92-42-99232261-74
Fax: +92-42-99232275
E-mail: info@turkpak.com

Technology & Resource Development (Pvt.) Limited
IEEEP Building, 17-C-1, Civic Centre
Faisal Town, Lahore-54700, Pakistan
Ph: +92-42-99232261-74
Fax: +92-42-99232275
E-mail: techred01@gmail.com

ECO Consultancy & Engineering Company (Pvt.) Limited (ECO-CEC)
IEEEP Building, 17-C-1, Civic Centre
Faisal Town, Lahore-54700, Pakistan
Ph: +92-42-99232261-74
Fax: +92-42-99232275
E-mail: ecocec@wol.net.pk

Engineering & Consulting Associates (Nigeria) Limited.
17 Audu Bako Way, Nassarawa Area
P.O. Box 2036, Kano, Nigeria
Phone: +234-64-634798, 636320
Fax: +234-64-641497

National Engineering Services Pakistan (Pvt.) Limited
NESPAK House: 1-C, Block-N
Model Town Extension, Lahore-54700, Pakistan
P.O. Box 1351
PABX: 92-42-99090000
Fax: 92-42-99231950
E-mail: info@nespak.com.pk
Website: www.nespak.com.pk

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Editor: Ahmad Said, GM/Head Business Development
Deputy Editor: Muhammad Shakoor
Designer: Muhammad Ahmed Nadeem