



NESPAK

NEWSREPORT

APRIL - JUNE
2023



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assumes charge as Acting
MD NESPAK

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Mr. Zargham Eshaq Khan assumes charge as Acting MD NESPAK



Dr. Tahir Masood, outgoing MD NESPAK (R), presenting a bouquet to Mr. Zargham Eshaq Khan, Acting MD NESPAK

Mr. Muhammad Zargham Eshaq Khan has assumed the charge of Acting Managing Director of NESPAK, effective May 31, 2023. This appointment follows the approval of the Board of Directors of NESPAK.

Mr. Zargham Eshaq Khan is a highly regarded professional engineer with an impressive academic and professional background. He holds a B.Sc. in Electrical Engineering and an MSc in Optics and Illumination Engineering from UET Lahore. Since joining NESPAK in 1993, he has served in various key positions, including his most recent role as VP/Head of the New Ventures Division, NESPAK.

With over 30 years of experience in the field of engineering, Mr. Zargham Eshaq Khan has developed expertise in policy and finance management in Pakistan's

power sector. He has been involved in significant projects such as the development of the China-Pakistan Economic Corridor (CPEC) framework agreement and the settlement of international arbitration disputes related to the power sector in Pakistan. He has also played a crucial role in the implementation of power sector reform programs under the Asian Development Bank (ADB) and the World Bank. Furthermore, he has represented Pakistan in energy dialogues with the

United States, as well as in SAARC, Pakistan-Russia, and Pakistan-Turkey energy forums.

Mr. Zargham Eshaq Khan has served on the Board of Directors of various power sector entities, including power distribution companies (LESCO, GEPCO, PESCO, and MEPCO), power generation companies (GENCO III), Pakistan Electric Power Company (PEPCO), Power Holding Private Ltd (PHPL), and Central Power Purchasing Agency (CPPA-G). During his tenure as MD of PEPCO, he was instrumental in managing the power sector and implementing a devolution plan for power sector reform. As the CEO of PHPL, he successfully completed Pakistan's largest debt swap Sukuks, totaling Rs 400 billion, and managed power holding debt and loans amounting to Rs 600 billion with various financial institutions and banks. Mr.

Zargham is also credited with introducing Islamic financing in the power sector. For approximately 10 years, Mr. Zargham Eshaq Khan served as Joint Secretary in the Ministry of Energy Power Division, where he held additional roles as Managing Director and Chief Executive Officer of power sector entities.

Throughout his illustrious career, Mr. Zargham Eshaq Khan has maintained an impeccable reputation for his integrity and efficiency. He is known for his adherence to rules and regulations. As the head of NESPAK, a premier consultancy organization in Pakistan, he is poised to contribute significantly to its growth and the engineering fraternity through his exceptional management skills and extensive experience.

Acting Managing Director NESPAK visits Islamabad Office

Mr. Muhammad Zargham Eshaq Khan, Acting Managing Director of NESPAK, visited the NESPAK Islamabad Office. He was warmly welcomed by Mr. Danish Raza, General Manager/Head of the Islamabad Office, and Mr. Aziz Aslam, General Manager/Head of DMRD Islamabad.



Mr. Zargham Eshaq Khan in a group photograph with Dr. Tahir Masood and senior professionals of NESPAK after taking charge as Acting MD NESPAK



Mr. Muhammad Zargham Eshaq Khan, the Acting Managing Director of NESPAK, during his visit to Islamabad office

7th BOM meeting reviews progress on Mohmand Dam Hydropower Project

The 7th Board of Management (BOM) meeting for the Mohmand Dam Hydropower Project (MDHP) took place from June 8 to 10, 2023. The meeting comprised a series of events, starting with a joint site visit to MDHP on June 8, followed by an internal meeting at NESPAK Islamabad office on June 9, and concluding with a meeting with the

Chairman of WAPDA on June 10, 2023, held at WAPDA Hydel Complex Islamabad.

During the BOM meeting, the participants engaged in comprehensive discussions about the overall progress and pertinent matters related to the project. Chaired by Mr. Zargham Eshaq Khan, Acting MD



The Project Manager giving a briefing on the progress of work to the Acting MD NESPAK



The participants of the 7th BOM meeting in a group photograph with site staff at the project site

NESPAK, the meeting received a thorough briefing from Mr. Mark Fox, the Project Manager/Construction Manager overseeing the MDHP.

The Mohmand Dam Consultants Group (MDCG), led by NESPAK, has been providing engineering design, construction supervision, and contract management services for the MDHP. The construction activities are concurrently underway for Lot-1 (Preparatory Works), Lot-2 (Main Civil Works), and Lot-3 (Irrigation Facilities).

NESPAK BOM visits 969 MW Neelum-Jhelum Hydropower Project

In line with the Board of Management's (BOM's) initiative to visit various mega projects across the country, Dr. Tahir Masood, the former Managing Director of NESPAK, accompanied by BOM members, conducted a visit to the 969 MW Neelum Jhelum Hydropower Project (NJHPP) on May 5th and 6th, 2023. The primary objective of the visit was to inspect the ongoing rehabilitation works at the tail race tunnel, which suffered a sudden collapse in one section near the powerhouse.

On the occasion, Mr. Ayub Malik, Deputy Project Manager of Neelum Jhelum Consultants (NJC) from NESPAK, delivered a comprehensive presentation on the key features of the NJHPP, its components, and the project milestones achieved since its inception.



NESPAK BOM members in a group photograph at the dam site

Subsequently, the team visited the powerhouse and the tail race tunnel. During the tunnel inspection, the team observed complex geological issues, failure patterns, and localized cracking.

Currently, rehabilitation works are underway at the tail race tunnel site, with NJC responsible for designing the necessary measures. China Gezhouba Group of Companies (CGGC) has been contracted to execute the on-site rehabilitation works. The following day, the

BOM also visited the main dam site and its ancillary structures.

The visit concluded with an assessment of the 155 MW Patrind Hydropower project on the Kunhar River in Muzaffarabad. The objective of this visit was to evaluate the project's progress, the implementation of engineering designs, and adherence to quality standards. The BOM received a comprehensive briefing from Patrind O&M K-Water Global, which provided valuable insights into the project's details and operations.



A view of the dam tunnel

Extension of Ghulam Gardish at Data Darbar shrine

Madina Foundation has enlisted the services of NESPAK for the "Extension of Ghulam Gardish at the Shrine of Syed Ali Al-Hajveri (R.A.) in Lahore", in May 2023. NESPAK's scope of work encompasses planning, designing, and construction supervision for the project, which is expected to span one

year. The signing agreement ceremony was attended by notable individuals including Mr. Muhammad Ishaq Dar, Federal Finance Minister; Mr. Mohsin Naqvi, Caretaker Chief Minister of Punjab; Syed Azfar Ali Nasir, Minister of Auqaf Punjab; Mr. Zahid Akhtar Zaman, Chief Secretary of Punjab; Dr. Tahir Raza Bukhari, Secretary of Auqaf Punjab; Mr. Mian Muhammad Rasheed, Chairman of Madina Foundation; Mr. Adil Nazir, General Manager/Head of A&P Lahore at NESPAK;



Proposed extension of Shrine of Hazrat Data Ganj Bakhsh (R.A.) Lahore



Meeting in progress on the Extension of Ghulam Gardish at Data Darbar shrine

and Mr. Ali Ahmad Jan, Senior Architect from A&P Division at NESPAK (Project Manager).

To oversee the project's progress and other aspects, the Client has established a Special Premises Committee. Esteemed members of the Special Premises Committee of Punjab, including Dr. Tahir Raza Bukhari, Secretary of Auqaf Punjab; Architect Nayyar Ali Dada; Architect Imrana Tiwana; and General Manager/Head of A&P at NESPAK, visited the site on May 26, 2023, and provided valuable input to ensure project quality.

Meanwhile, the Auqaf & Religious Affairs Department has awarded NESPAK the project titled "Feasibility Study & Detailed Design for the Integrated Development, Planning & Revamping of the Data Darbar Complex in Lahore" in April 2023. The project has a total duration of six (06)

months and aims to enhance facilities for devotees and visitors. It involves the redesigning of designated areas within the Data Darbar Complex and its surrounding regions.

The scope of work includes conducting an analysis of the current situation, creating detailed designs for external infrastructure and proposed

improvements, developing a land-use plan for the surrounding area, and producing comprehensive architectural, structural, and construction drawings for the proposed facades of the existing buildings.

ESHS expert visits Sustainable Hydropower Projects, Uzbekistan



Glimpse of a meeting held between Head ERSD Section, GT&GED NESPAK and the Client in Uzbekistan

A joint venture between M/s DOLSAR Engineering and NESPAK has been actively providing consultancy services for the construction supervision of Sustainable Hydropower Projects in Uzbekistan. The esteemed client for these projects is Joint Stock Company UZBEKGIDROENERGO, with funding provided by the Asian Development Bank (ADB).

To comply with the requirements set by ADB and the Client, Mr. Muhammad Shariq Ahmed, Head of the ERSD Section in the GT & GE Division, visited Uzbekistan on May 11, 2023. During his visit, Mr. Ahmed conducted meetings with the Client, ADB representatives, relevant departments, and the Contractor's staff. He also inspected the hydropower plant sites and conducted public consultations to meet the requirements of the SPS, 2009, and local Environmental Agencies. Furthermore, he conducted comprehensive training sessions in Tashkent and on-site to enhance the capabilities of the local staff.

Emergency Flood Assistance Project

A consultancy service agreement was signed between the Irrigation Department of Khyber Pakhtunkhwa and NESPAK for the Emergency Flood Assistance Project in Khyber Pakhtunkhwa on April 7, 2023. The project, with a total cost of Rs. 15,000 million, will be financed by the Asian Development Bank. NESPAK has been entrusted with designing and construction supervision services. The scope of work includes the implementation of irrigation and flood protection structures in various districts of Khyber Pakhtunkhwa, namely Hazara, Swat, Dir, Chitral, Malakand, Charsadda, Nowshera, Peshawar, Bannu, and Dera Ismail Khan. This also involves the rehabilitation of two major irrigation systems, namely the



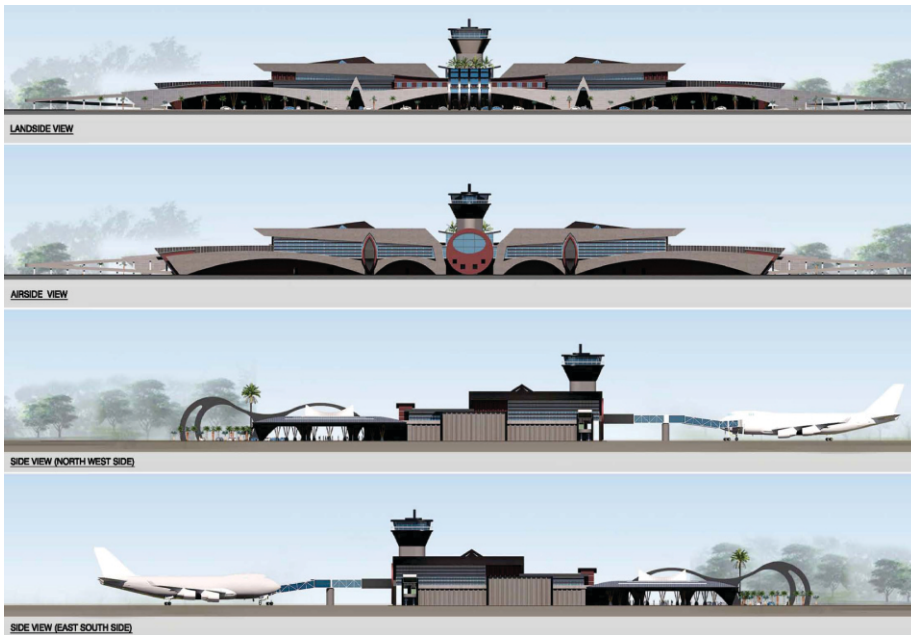
Mr. Khalid Mahmood, GM W&A Division (1st from R), signing the contract

Chashma Right Bank Canal and Lower Swat Canal, which were severely damaged during the devastating floods of 2022. These floods caused significant losses to agricultural lands, buildings along the riverbanks, and other infrastructure.

Begum Nusrat Bhutto International Airport, Sukkur

NESPAK has successfully conducted the topographic survey, geotechnical investigations, traffic forecast studies, and architectural concepts and master planning for the Begum Nusrat Bhutto (BNB) Sukkur Airport. The preliminary design of the project has been finalized and submitted to the the Pakistan Civil Aviation Authority (PCAA). Currently, the feasibility study and the preparation of PC-I are in the final stages.

In November 2022, the PCAA awarded the consultancy services Contract to NESPAK for the upgradation and expansion of BNB Sukkur Airport. The primary objective of this project is to enhance the airport's infrastructure and facilities, enabling it to handle both domestic and international operations, including wide-bodied aircraft. Mr. Raheel Ahmed, PE, serves as the Project Manager for the BNB Airport Project, Sukkur.



NESPAK to prepare land-use maps for District Attock



Deputy Commissioner Attock chairing the meeting

The Local Governments of District Attock in June 2023 engaged NESPAK for the preparation of land-use classification maps and site development zone structure plans for the district. The project was awarded in a meeting chaired by Deputy Commissioner Attock, Rao Atif Raza, and was attended by NESPAK representatives, relevant additional deputy commissioners, the district officer planning, and chief officers.

The project scope includes the preparation of base maps, land-use classification maps, and site development zone (SDZ) structure plans for the next 20 years of future growth. The maps will be prepared in accordance with the guidelines and provisions of the Land Use Rules 2020, using GIS-based analysis, latest tools, and field surveys. The study area comprises the local governments and major urban settlements of District Attock, including the six tehsils of Hassan Abdal, Fateh Jang, Hazro, Pindi Gheb, Jand, and Attock.

NESPAK completes underpass at DHA in six months

The construction of the "Underpass and At-Grade U-Turn along Shabir Sharif Road at Avenue-III, Phase VI, DHA Lahore" was officially inaugurated on March 18, 2023, by the President of DHA Lahore. NESPAK was responsible for the design and supervision of the underpass, at-grade

U-turn, and related services. The project, which cost Rs. 1,319 Million, was funded by Defence Housing Authority (DHA) Lahore. One notable feature of the project is the dedicated two-lane corridor, designed for the smooth commuting of the Metro Bus Service, providing a signal-free route.



From right to left (Lt. Col Anees ur Rehman (AD, DHA) Col. Rasheed Abbasi (PD, DHA) Brig. Hafiz Azhar (CE, DHA) Brig. Umer Farooqi (PD, NLC), Engr. M. Dawood Rana (VP, NESPAK) Lt. Col. Adnan Ahsan (SPM, NLC), Engr. Jamshaid Mahmood (PM, NESPAK), Engr. M. Sohail Wali (RE, NESPAK).



Through a commendable collaboration between Defence Housing Authority (DHA), NESPAK, and National Logistics Cell (NLC), the project was completed within a six-month timeframe. This development will significantly improve traffic flow along the Shabir Sharif Road corridor, reducing congestion, travel time, vehicle operating costs, as well as noise and air pollution. Additionally, it will greatly benefit the residents and commuters of Phase VI, VII, and VIII in DHA Lahore.

BRTS Yellow Line Project

NESPAK has successfully completed all the required studies, surveys, and detailed designs for Karachi's Bus Rapid Transit System (BRTS) Yellow Line Project in Karachi. The final versions of the depot design and tender documents were submitted to the Sindh Mass Transit Authority (SMTA) in May 2023. The design for off-corridor network improvements, park and ride facilities, drainage, landscaping plans, and traffic management plans has also been finalized. The detailed design, construction supervision, and procurement (Phase 2) of the Karachi Mobility Project are scheduled to commence in the third quarter of 2023.

The World Bank (WB) has been providing valuable support to Karachi's BRT Program through an Advisory Service, specifically focusing on network planning integration and BRT design. NESPAK, in collaboration with the Sindh Mass Transit Authority (SMTA), prepared the preliminary design for the Yellow BRT Corridor, which was funded by the World Bank through the Karachi Neighborhood Improvement Program (KNIP) and completed in 2019. Based on the cost estimates derived from this preliminary design, the PC-1 was approved for USD 438.9 million in October 2019.

In September 2021, the joint venture of DAR and NESPAK was contracted by the SMTA to provide consultancy services for the detailed designs, procurement support, and construction supervision required for the successful implementation of the project.



Operation building and mechanical shop at the BRTS depot

During Phase 1 of the project, NESPAK's scope of work included the following activities:

- Conducting essential studies and surveys for the development of detailed designs, such as topographic surveys, traffic surveys, geotechnical investigations, pavement surveys, hydrological surveys, utility surveys, and hydraulic/hydrology studies.
- Carrying out detailed designs for the depots, off-corridor network, landscaping, park and ride facilities, drainage design, utility plans, and temporary traffic management plans.
- Updating the Environmental Impact Assessment (EIA), Social Impact Assessment (SIA), and Community Livelihood Restoration Plan (CLRP).
- Preparation of tender documents.

Mr. Rehan Zamin is serving as the Project Manager for the BRTS Yellow Line Project.



A view of the ramp at the depot

Carbon Crediting and LEED Certification

The ERSD Section of the GT&GE Division conducted a meeting with the Lahore Development Authority (LDA) on June 01, 2023, at the LDA Office in Lahore to discuss carbon crediting, green buildings, and LEED certification concepts. The meeting was chaired by the Chief Town Planner of LDA.

Mr. Muhammad Shariq Ahmed, the Head of the ERSD Section, delivered a comprehensive presentation highlighting the importance of green buildings in Pakistan. He also provided insights into the significance and process of obtaining LEED certifications for buildings. The Chief Town Planner of LDA expressed appreciation for these innovative concepts.

NESPAK executes PCB assignment

As part of the Umbrella Agreement with the Pakistan Cricket Board (PCB), NESPAK has successfully executed numerous projects, with the Rehabilitation/Renovation of Players' Dressing Lounges at Gaddafi Stadium in Lahore being one of the most recent achievements. The A&P Division of NESPAK completed this project within an impressive timeframe of just 45 days. The scope of the task involved renovating two Players' Lounges, Locker Areas, Dining Spaces, Umpire Room, Anticorruption Room, and other related facilities at Gaddafi Stadium in Lahore.

The renovation garnered widespread acclaim from both local and international



Mr. Najam Aziz Sethi, the Chairman of the Pakistan Cricket Board (PCB) inaugurating the refurbished facilities

players, foreign media outlets, and PCB officials. The official inauguration of the refurbished facilities was carried out by Mr. Najam Aziz Sethi, the Chairman of the Pakistan Cricket Board (PCB).

Mr. Danish Raza, General Manager/Head, Islamabad, and Mr. Salman Shahid, Project Manager, National Aerospace Science and Technology Park (NASTP), gave a presentation to Air Marshal Mr. Abbass Ghumman, Deputy Chief of Air Staff (DCAS) NASTP, on the progress of works at the NASTP in Kamra on April 5, 2023. The DCAS NASTP visited the site on April 19, 2023, and highly appreciated the efforts and services of NESPAK.



A presentation is being given to Air Marshal NASTP

NESPAK is providing services to Aviation City Pakistan Pvt. Limited (ACPPL) for the establishment of NASTP, which is an

integral part of Aviation City Pakistan. NASTP is being developed as Pakistan's first aerospace cluster and smart city around PAC Kamra and PAF Base Minhas.

Building No. 1, which has a covered area of around 450,000 square feet, has been designed by NESPAK along with related infrastructure. The building is currently at an advanced stage of construction.



The DCAS NASTP during visit at site

Progress review of University of Buner, Khyber Pakhtunkhwa

Mr. Amin Badshah, Vice Chancellor of the University of Buner, Khyber Pakhtunkhwa, visited the construction sites of the Academic Block, Administration Block, and Hostels Block of University of Buner, Khyber Pakhtunkhwa on May 3, 2023. He reviewed the ongoing construction activities and progress of the works. He appreciated the efforts being made by NESPAK on the project, and noted that the works are being executed in true adherence of design and work specifications.



VC visiting the University of Buner Campus



University of Buner

Digital City Haripur, Khyber Pakhtunkhwa



GM/Head Islamabad presenting a shield to the Client during his visit to Digital Complex, Haripur

Mr. Danish Raza, General Manager/Head of NESPAK's Islamabad Office, along with the Managing Director of KPITB and the Project Director of NLC KP, visited the ongoing project titled "Construction of Pakistan Digital City at Haripur", on May 18, 2023. A briefing session was conducted at the site by Mr. Rashidullah, Principal Engineer/Project Manager at NESPAK. Following the visit, a memento was presented by the Project Director of NLC KP to the General Manager/Head of NESPAK's Islamabad Office.

The project aims to foster the growth of the IT industry in the province, while also achieving goals such as increased foreign direct investment through a revamped policy framework, knowledge dissemination, technology transfer, technology diffusion, employment generation, and skill development. NESPAK's scope of services includes master planning, detailed architectural and engineering design, and comprehensive construction supervision.

Meanwhile, the General Manager/Head of NESPAK's Islamabad Office, accompanied by Mr. Mukhtar Arshad, General Manager/Project Manager, visited the ongoing project titled "Construction of Police Stations/Police Posts at Malakand, Khyber Pakhtunkhwa", on June 01, 2023. The project activities are progressing at full pace, with works in full swing. NESPAK's scope of services for this project includes master planning, detailed architectural and engineering design, and meticulous construction supervision.



GM/Head Islamabad (Middle) visiting Police Posts Malakand Project

NESPAK signs five new agreements with C&W Department

The Peshawar Office of NESPAK has recently finalised consultancy services agreements for five new projects with the C&W Department of Khyber Pakhtunkhwa. These agreements involve the provision of construction supervision services for the Gynae & Cardiology Block in Swat, feasibility study and design services for a tunnel in Dir Lower, as well as design and construction supervision services for three district jails located in Shangla, Swat, and Dir Upper.

HSE Management System in GEPCO

The ERSD Section of the GT&GE Division has been providing consultancy services as a Health, Safety, and Environment Consultant for a study commissioned by the Gujranwala Electric Power Company (GEPCO). Mr. Muhammad Shariq Ahmed, the Head of the ERSD Section, is serving as the project manager for this assignment. A meeting was convened on April 18, 2023, at the GEPCO Headquarters in Gujranwala to review the project progress and discuss the HSE Manual of GEPCO.

The Head of the ERSD Section and his team attended the meeting and provided an update to the GEPCO officials. The Client team expressed their appreciation for the efforts of the NESPAK team. Subsequently, on June 14, 2023, the NESPAK team from the ERSD Section visited the Regional Training Centre of GEPCO, located in Nandipur. The purpose of the visit was to identify areas for improvement in terms of providing targeted capacity-building training to GEPCO Officials.



A NESPAK team visiting GEPCO RTC

600 MW SOLAR PV power plant

The Alternative Energy Development Board (AEDB) tasked NESPAK to prepare Technical Feasibility Study for a 600 MW Solar PV Power Plant at District Kot Addu/Muzaffargarh.

The study comprised Solar PV Resource Assessment, Geotechnical Investigations, topographic survey, transportation access, and hydrogeological aspects of the project area spanning more than 2,400 acres.



Mr. Nadeem Ashraf, Executive VP P&M Division of NESPAK (R) along with NESPAK personnel after signing the agreement with Mr. Shah Jahan Mirza, MD PPB/AEDB

Bridge at Zero Line for Kartarpur Sahib Corridor

NESPAK has been entrusted by the Pakistan Public Works Department (Pak PWD, Gujranwala) with the responsibility of conducting feasibility studies, surveying, planning, design, and supervision for the construction of a bridge at the Zero Line for the Kartarpur Sahib Corridor, situated on Pakistan's Eastern Border. This bridge, measuring 247.725 meters in length, will connect Gurdwara Darbar Sahib in Kartarpur, Pakistan, to the Dera Baba Nanak Sahib shrine in Gurdaspur district, India. Its purpose is to facilitate visa-free movement of



Mr. Muhammad Arif, Head GMM Section, GT & GE Division and Mr. Naveed Abbas, Executive Engineer, Pak PWD, Gujranwala signing the contract agreement



Indian pilgrims to Kartarpur Sahib. In addition, the project involves the construction of a 300-meter road section and a roundabout on the Pakistani side.

Currently, construction activities for this project are in full swing. NESPAK previously oversaw the completion of the Kartarpur Corridor project in 2019.

PM visits Central Business District, Kalma Chowk Underpass

Mian Muhammad Shahbaz Sharif, Prime Minister of Pakistan, visited the Kalma Chowk Remodelling CBD Punjab Boulevard project site in Lahore on April 16, 2023. This ambitious project, overseen by the Punjab Central Business District Development Authority (PCBDDA), aims to revamp the Kalma Chowk area, including the underpass, road networks, water supply, and drainage lines. During the visit, the Prime Minister received a comprehensive briefing on the project from Imran Amin, the CEO of CBD Punjab,

along with other senior officials from NESPAK.

The presence of notable figures at the event was also observed, including the Caretaker Chief Minister of Punjab, Syed Mohsin Raza Naqvi, Commissioner Lahore Division, Muhammad Ali Randhawa, COO CBD Punjab, Brigadier (R) Mansoor Janjua, and Directorate heads of CBD Punjab. Moreover, Brigadier Umar Farooqi PD NLC, as well as officials from NLC, NESPAK, and various senior government representatives, also attended the visit.



The Prime Minister receiving a briefing on the project from Mr. Imran Amin, the CEO of CBD Punjab, along with other senior officials from NESPAK.

500kV Double Circuit, Quad Bundle Transmission Line energized

The 500kV Double Circuit, Quad Bundle Transmission Line stretching 221km from SECL Power Plant in Thar Block-I to the HVDC Converter Station at Matiari was successfully energized on May 9, 2023 under the supervision of NESPAK.

The transmission line was officially inaugurated on May 25, 2023, by Engr. Khurram Dastagir Khan, the Federal Minister for Energy (Power Division). The Minister expressed deep appreciation for the collective efforts of all stakeholders, recognizing their invaluable contributions to the project's timely completion. He highlighted the significance of this revolutionary initiative, which distinguishes



Federal Minister for Energy (Power Division), Engr. Khurram Dastagir Khan inaugurating the Transmission Line Project

itself through its indigenous nature. This transmission line will play a vital role in facilitating the efficient transmission of cost-effective electricity generated from local coal reserves in Thar to all corners of the country.

The Minister emphasized that the completion of this project marks a critical milestone in achieving energy security and promoting overall development. It will address the challenges faced by the power sector and effectively meet the growing energy demands of the nation.

Solarization of public sector buildings



Solar PV System Installation activity at PM House and PM Office

In accordance with the directives from the Ministry of Energy (Power Division), NESPAK has undertaken the task of preparing design reports for over 350 Public Sector Buildings across various cities in Pakistan. These cities include Islamabad, Karachi, Lahore, Faisalabad, Peshawar, Quetta, Multan, Rawalpindi, Sukkur, Jauharabad, and Sargodha. Additionally, NESPAK has also prepared design reports for 55 Cantonment buildings located throughout the country.

The design reports focused on determining the solar PV system requirements and designs for several significant public sector buildings. Examples of these buildings include the Prime Minister House, Prime Minister Secretariat, Cabinet Division Building, Supreme Court of Pakistan Building, PTV Headquarters, PTA Headquarters, NADRA Head Office, EOBI Head Office, Military Lands and Cantonment Head Office, NEECA Office, NAB Head Office, Emigration Tower, PRC Tower, NICL Towers, PCSIR Labs, AGPR Office, Pakistan Post, Pakistan Bait ul Maal, Pakistan Museum for National History, International Islamic University, National Skills University, Expo Center Lahore, and Sheikh Zayed Medical Complex, among others.

To prepare unique design reports for each building, NESPAK's experts conducted physical surveys of every building. These design reports encompassed various aspects such as technology selection considerations, energy yield assessments, energy requirement analysis, PV system sizing details, minimum technical specifications, module and structure layouts, design drawings, bill of quantities, and financial analysis. During this quarter, construction activities for the solarization of the Prime Minister House and Office were also initiated. NESPAK will provide its services by validating project deliverables through design review, material delivery verification, and installation completion verification.

ADB team visits NESPAK

The ERSD Section of the GT&GE Division has been tasked with conducting E&S Studies, Air Modeling, and Noise Modeling for various road projects under the National Highway Authority (NHA). The Asian Development Bank (ADB) serves as the funding agency for these projects. In relation to the Noise Modeling Report, an ADB team visited NESPAK House on June 19, 2023, to hold discussions with the ERSD Team.

During the meeting, Mr. Muhammad Shariq Ahmed, the Head of the ERSD Section, and Mr. Fahad Saleem, Senior Engineer, adeptly addressed all the queries raised by the ADB Experts, effectively resolving any concerns.

Meanwhile, ERSD Section, GT&GE Division has been providing services to carry out the E&S Studies including Land Acquisition and Resettlement Plan (LARP) studies for the projects under CAREC, being executed by the NHA and funded by the ADB. On May 09, 2023, a meeting was held between ADB, NHA and NESPAK E&S team to discuss the status of LARP documents. Mr. Muhammad Shariq Ahmed, Head ERSD Section and his team effectively answered all the queries raised by the ADB Experts.

Shunt reactors at 884 MW Suki Kinari Hydropower Project

NESPAK was awarded the contract for engineering consultancy services to evaluate the pre-qualification of applicants for the engineering, procurement, and installation of shunt reactors at the 884 MW Suki Kinari Hydropower Project on March 20, 2023.. The primary scope of the project includes the preparation of prequalification and bidding documents, bid evaluation, and contract award for two banks of 3x22 MVAR Shunt Reactor banks at the Phase-I of the 884 MW Suki Kinari Hydropower Project. Currently, the evaluation of the pre-qualification of the applicants is in progress.

The overall progress of the project stands at 25 percent, and it is scheduled to be completed by September 2023. NESPAK is committed to ensuring the successful execution and completion of the project in accordance with the specified timeline.

NESPAK, MMP to prepare master plans for District Khanewal

The Project Management Unit (PMU) - LG & CDD has awarded a project to the joint venture of MM Pakistan (Pvt.) Ltd. (MMP) and NESPAK for the preparation of master plans/land-use and zoning plans for local governments in Punjab (Phase-I), District Khanewal and Vehari (Package-V).

NESPAK has already submitted an inception report, district profile, and land-use classification report, including a map. Subsequently, a District Planning and Design Committee (DPDC) meeting was chaired by Deputy Commissioner Khanewal, Mr. Waseem Hamid Sindhu, on May 23, 2023. The meeting was also attended by Additional Deputy Commissioner (Revenue) Ms. Azuba Azeem, NESPAK professionals, PMU LG&CDD representatives, and all relevant district government officials.

During the meeting, Chief Town Planner NESPAK, Mr. Ahmed Masood, apprised the forum of the land-use classification plan for District Khanewal prepared by NESPAK. The Deputy Commissioner directed the relevant chief officers to

submit a feedback report after reviewing the maps prepared by NESPAK within three days. Accordingly, the land-use classification maps were approved and duly signed by the competent authority.



Deputy Commissioner Khanewal chairing DPDC meeting while Project Manager briefing the forum on Land-use classification maps of Khanewal District

Western Greater Peshawar Spatial Master Plan Mid-Term Projects Identification for Investment



Participants while recording their feedback on Ranking Forms

The Khyber Pass Economic Corridor (KPEC) Project is in the process of creating a KPEC Development Plan, based on a combined spatial and cluster competitiveness assessment in Western Greater Peshawar (WGP). The Project Management Unit (PMU) of KPEC has hired the services of NESPAK to prepare the Spatial Master Plan for WGP.

NESPAK has identified some potential investment projects for the economic development of the WGP region. These projects were presented to a consultative session of World Bank representatives and members of the Project Review & Advisory Committee (PRAC) at NESPAK House Islamabad. The session was apprised of the process of project identification, shortlisting, and prioritization. The shortlisted projects

were presented along with briefs about their background, rationale, justification, and benefits. The occasion was graced by Ms. Adja Mansora Dahourou, Task Team Leader of KPEC Component-II

(World Bank), and Mr. Imran Zahoor, Project Director of KPEC. During the session, Ms. Mariam Farooq Khan, Project Manager of NESPAK, gave a detailed presentation on the different aspects, modules, and progress of the KPEC Master Plan for WGP on April 14, 2023.

The projects and interventions presented to the participants included the Pak-Afghan Economic Zone, Logistic Park, Advanced Technical and Vocational Center, Solar Park, and Sports Complex. These projects were discussed and deliberated in detail with the members of PRAC. The WB team and PRAC members appreciated the prioritized interventions and gave useful input and suggestions during the meeting.

NESPAK achieves major milestones in grid stations assignment

NESPAK has achieved significant milestones in the construction supervision of extension and augmentation works at eight Nos. 220 kV and 500 kV Grid Stations in the South and North (Group-A). The notable achievements during this quarter are as follows:

- Augmentation of 220/132kV, 160MVA Auto Transformer ATR-I to 250 MVA at the 220/132kV Ghakhar Grid Station. The successful energization of ATR-I "On Load" took place on April 11, 2023.
- Augmentation of the second unit of the 220/132kV, 160MVA Auto Transformer to 250 MVA at the 220/132kV Bannu Grid Station. The transformer was



A view of the grid station

successfully energized on load on May 18, 2023.

- Augmentation of 220/132kV, 160MVA Auto Transformer ATR-3 to 250 MVA at 220/132kV Samundari Grid Station. ATR-3 was successfully energized on May 31, 2023.

The objective of these projects is to enhance the capacity and reliability of selected segments of the NTDC Transmission System, as well as to increase the capacity of the 160MVA-rated transformers, which are being replaced with 250MVA-rated transformers. This augmentation will lead to a reduction in transmission losses. Furthermore, the installation of these new transformers with higher capacities will benefit industrial, rural, and urban DISCO consumers, generating significant positive outcomes.



An NTDC and NESPAK team at energization of ATR-1 at 220/132kV Samundari Road Grid Station

Master Plan for Qurban Police Lines approved

The Punjab Police Department has awarded NESPAK the consultancy for the development of the Qurban Police Lines situated at Jail Road/Mall Road Lahore. NESPAK presented the Master Plan for this project to the Inspector General (IG) of Punjab Police, and it was highly appreciated by senior officials of the Police Department. Subsequently, the Master Plan received formal approval from the IG Punjab.

The approved Master Plan outlines the construction of multi-story residential buildings for police officers, as well as the inclusion of various commercial and community facilities in

different phases of development. NESPAK's comprehensive scope encompasses drone-based GIS surveys, detailed master planning, and conceptual proposals for infrastructure improvements. Mr. Ahmad Masood, the Chief Town Planner of the A&P Division, has been designated as the Project Manager, while Ms. Sana Latif, a Senior Architect, serves as the Project Architect.



A perspective view of approved Qurban Police Line Master Plan

Construction supervision of Sub-Projects of SOP-I, KWSSIP, Karachi



Replacement of 18" dia. RCC Sewer Line near Korangi Flyover

NESPAK has been providing consultancy services to the Project Implementation Unit (PIU) of the Karachi Water and Sewerage Services Improvement Project (KWSSIP) at the Karachi Water & Sewerage Board. This project is funded by the World Bank and consists of Sub-projects SOP-I, for which NESPAK has been involved since September 2021.

Following the successful completion of the design phase, NESPAK is currently overseeing the initial assignment of emergency repair and rehabilitation of damaged water and sewer lines worth Rs. 2,475 million. This work is being carried out in various districts of Karachi under the resident supervision of NESPAK. As of now, the progress of the emergency works stands at 55 percent, and they are expected to be fully completed by September 2023.

NESPAK completes survey, soil investigations

NESPAK has successfully completed the site survey and soil investigation activities for the 220kV Double Circuit Twin Bundle Overhead Transmission Line, spanning from Sheikhpura Grid Station to Bund Road Grid Station, covering a distance of 28 km.

The client for this project is NTDC, and the assignment involves converting the existing 220kV Double Circuit Transmission line from a Single Conductor configuration to a Twin Bundle configuration. Currently, the approval process for plan and profile drawings, as well as the construction structure list, is underway.

Commissioner Sargodha, Secretary visit ongoing road project

The project, titled "Dualization of the road from Salem to Sargodha via Bhalwal," commenced in December 2021 and is expected to be completed by December 2023 under the supervision of the C&W Department of the Government of

Punjab. NESPAK has been appointed as the consultant for design and construction supervision. This project is part of the PSDP program and spans a length of 47 kilometers. Upon completion, the existing single carriageway will be transformed into a 4-lane dual carriageway with a width of



Asphaltic pavement in progress



Commissioner, Deputy Commissioner Sargodha and C&W officials being briefed by R.E NESPAK

24 feet and 4 feet treated shoulders on both sides of each carriageway.

Recently, Commissioner Sargodha, accompanied by Deputy Commissioner Sargodha and relevant officials from the C&W Department, visited the project site and received a progress update. Similarly, the Secretary of the C&W Department in Punjab, along with senior officials, also visited the site. During their visits, NESPAK's supervisory staff provided a detailed briefing on the project.

Both the Commissioner and the Secretary appreciated the quality of work and acknowledged the efforts of the NESPAK supervision team during their visits.

Route survey, sub-soil investigations of 500kV transmission lines

NESPAK entered into a contract agreement with NTDC on June 19, 2023 to provide engineering consultancy services for detailed route surveys and sub-soil investigations for the following transmission lines:

- i) A 500kV Double Circuit Transmission Line utilizing Quad Bundled Drake Conductor, spanning 75 km from the 500kV Sialkot Substation to the 500kV Lahore North Substation.
- ii) A 500kV Double Circuit Transmission Line utilizing Quad Bundled Drake Conductor for the IN/OUT of the Existing 500kV Multan-Sahiwal (Yousafwala) Single Circuit at Vehari Substation, covering a distance of 35 km.

The scope of services includes conducting detailed route surveys, sub-soil investigations, soil resistivity analysis, plan and profiling activities, spotting of towers using PLS-CADD, preparation of proposed foundation drawings, and the creation of Bills of Quantities (BoQ) for the Transmission Lines.

The total project cost amounts to Rs. 33.45 million, and the project is being financed through NTDC's own resources. The anticipated completion date for the project is December 2023.



Survey in progress

NESPAK experts visit Walla Dam in Jordan

In fulfillment of contractual requirements, a team of experts, comprising Mr. Irfan Ul Haq, Executive Vice President/Head GT&GE Division, Dr. Tahir M. Hayat, Expert Dams, Mr. Muhammad Azam, General Manager GT&GE Division and Mr. Muhammad Tanvir Abbas, Head Dams & Hydropower Section, GT&GE Division, conducted a visit to the Wala Dam site in

Jordan from May 20th to May 24th, 2023. The purpose of this visit was to assess the post-impounding performance of the dam. During their visit, the team delivered a comprehensive presentation on the post-reservoir impounding performance of the Wala Dam to the project client, the "Jordan Valley Authority (JVA)." In conclusion, Mr. Irfan Ul Haq expressed gratitude for the successful reservoir impounding achieved during this



NESPAK experts during their visit to the Walla Dam



Mr. Irfan Ul Haq presenting a gift hamper to the Secretary General

season. As a token of appreciation, a souvenir from NESPAK was presented to the Honourable Secretary General on the occasion of NESPAK's 50 years of celebration.

Academic Block at COMSATS University Wah Campus

A groundbreaking ceremony for the construction of an academic block at the COMSATS University Wah Campus was held on April 12, 2023. The ceremony was attended by Prof. Dr. Muhammad Tabassum Afzal, Rector of COMSATS University Islamabad, along with officials from NESPAK Islamabad.



The ground breaking ceremony of COMSATS Wah

project is more than 650,000 square feet. NESPAK's scope of services includes master planning, detailed architectural and engineering design, tender documentation, and detailed construction supervision. Mr. Kaiser Abbas Bashir, Principal Engineer at NESPAK Islamabad, has been designated as the project manager.

NESPAK Islamabad is providing services to COMSATS University Islamabad for the project, which is titled "Upgradation of Existing Campus of COMSATS University Wah." The tentative covered area of the

Progress Review of Projects



GM/Head, Islamabad at Custom Complex Sost



GM Projects IDAP at PIMS, Islamabad

NESPAK Islamabad office senior officials along with Clients conducted progress review visits of various projects during the last quarter. As per details, Mr. Tahir Amin, General Manager of Projects at IDAP Lahore, along with the NESPAK Islamabad staff, visited the project site of 200-bed Emergency Centre at PIMS Islamabad on May 08, 2023 to assess the progress of ongoing works. The project is currently

underway with full momentum, and strict adherence to ISO quality control procedures.

On May 9, 2023, Mr. Danish Raza, General Manager/Head of the Islamabad Office, accompanied by Mr. Salman Shahid, General Manager/Project Manager, conducted a site visit to assess the progress of the establishment of Custom Complex at Sost, Gilgit-Baltistan. The works on the project are currently in full swing, demonstrating meticulous adherence to quality standards and work specifications. NESPAK's scope of services for this project includes master planning, detailed architectural/engineering design, tender documentation, and construction supervision.

On May 12, 2023, the General Manager/Project Manager of the Islamabad Office, along with the

Renovation of WFP Country Office, Islamabad

NESPAK Islamabad Office has been awarded a project by the World Food Programme (WFP) to renovate the WFP Country Office in Islamabad. The project kick-off meeting was held on April 13, 2023, and was chaired by the Country Director of WFP Pakistan, along with the Deputy Country Director and other senior officials from WFP. Mr. Salman Shahid, General Manager of NESPAK Islamabad Office, has been designated as the Project Manager for this project.

The renovation project will involve the refurbishment of the entire office, including the interior and exterior of the building, as well as the installation of new furniture, fixtures, and equipment. The project is expected to be completed in 12 months.

NESPAK wins two building projects

NESPAK Peshawar Office has won two new building projects in Khyber Pakhtunkhwa for rendering feasibility studies and detailed design services of Parachinar DHQ and construction supervision services for Judicial Complex Kohat (Phase-II).

Client Representatives, visited the project site and held a meeting to evaluate the progress of the works regarding the construction of Federal Audit Complex at Islamabad;

The project is currently in full swing, with active construction activities taking place. NESPAK's scope of services encompasses master planning, detailed architectural/engineering design, tender documentation, and comprehensive construction supervision.



Meeting in progress at Federal Audit Complex, Islamabad

Water resource development in Cholistan

Mr. Mansoor Ali, GM/Head along with Mr. Rafaqat Ali, Divisional Coordinator of the Water and Agriculture Division, provided a briefing to General Shahid, Adjutant General from GHQ, regarding the development of water resources in the Cholistan area. The Project Manager, Fazal Rehman Kashif, delivered comprehensive briefings

on the desired outcomes of water resource development in the Cholistan area. He also explained the important components of the project, which include the remodeling of the Abbasia link canal, irrigated



Mr. Mansoor Ali, GM/Head W&A Division of NESPAK (R), shakes hands with the Client

agricultural development in the project area, construction of storage reservoirs, installation of water supply lines, and implementation of rainwater harvesting measures.

500kV Double Circuit Quad Bundle Transmission Lines

NESPAK is providing supervision services for the construction of a 500kV double circuit quad bundle transmission line, spanning from Nokhar S/S to Lahore North



Stringing works under process

S/S and ultimately connecting to the Lahore HVDC Converter Station, covering a distance of 135 km.

Construction activities are actively progressing in both sections of this project. The construction of tower foundations and the erection of towers have been successfully completed in both sections of the transmission line. Currently, the stringing works are underway. As of now, the project has achieved an overall progress rate of 87 percent. The remaining works are expected to be completed well in advance of the contractual completion date, which is set for February 4, 2024.

1263 MW RLNG-based Combined Cycle Power Plant Jhang

The hot commissioning of the combined cycle section, which includes the steam turbine, steam turbine generator, auxiliary systems, and related Balance of Plant (BOP) systems, for the 1263 MW RLNG-based Combined Cycle Power Plant in Jhang, was successfully completed in May 2023. In June 2023, the Performance Test of the Complex, using RLNG, was conducted and witnessed by CPPA-G, Independent Engineer, and NESPAK. Additionally, the Reliability Run Test and Initial Capacity Test (ICT) were both completed in June 2023. As of the end of June 2023, the overall progress of the project stands at 94.5 percent.

Due to unforeseen delays in project completion, an Amendment No. 5 was made to the engineering consultancy services agreement between Punjab Thermal Power Ltd. (Employer) and NESPAK. The amendment covers additional consultancy services for the period of January 2023 to June 2023.

Mega NADRA Registration Center in Lahore

The establishment of the Mega NADRA Registration Center in Lahore has been completed. The project met the desired standards and was well-received by the client. Mr. Qaiser Abbas Bashir, Principal Engineer at NESPAK Islamabad, served as the project manager.



Mega NADRA Registration Centre in Lahore

Recreational trip

Three General Managers from NESPAK Peshawar, namely Mr. Muhammad Zafar Aman, Mr. Gohar Ali, and Mr. Muhammad Dawood Akhtar, embarked on a self-arranged recreational trip to Quetta and Ziarat, Balochistan, during the Eid-ul-Fitar holidays. During their visit, they explored various components of the Balochistan Minor Irrigation and Agricultural Development Project (BMIADP), which NESPAK supervised between 1987 and 1994. Additionally, they had the



Visit to Quad-i-Azam Residency

opportunity to tour the Sabakzai Dam in Zhob District, a project that NESPAK designed and supervised from 2004 to 2006. Furthermore, the team paid homage to Quaid-i-Azam Residency in Ziarat.

Takes Charge

Consequent upon retirement of Mr. Tahir Amin, Mr. Zahid Mahmood Khan, General Manager, has been designated as Head of Construction Management Division with effect from 1st April 2023. Mr. Khan brings with him an impressive 34 years of professional experience in the field, making him a valuable asset to this new role.





Mr. Arif Changezi, former VP A&P Division Karachi, Mr. Shaukat Qadeer, former VP Structural Engineering Division, Syed Tajammal Hussain, former GM/Head W&A Division, Mr. Tahir Amin, former GM/Head CM Division and Mr. Rizwan Zainul Abideen, former GM/Head M&QC Division along with hosts at the farewell dinner hosted in their honour

Farewell dinner

NESPAK hosted a farewell dinner in honour of retired Vice Presidents & General Managers/Heads of various Divisions of NESPAK on May 28, 2023 at a

local hotel in Lahore. On the occasion, Dr. Tahir Masood, former MD NESPAK, eulogized the services of retired professionals and presented shields in recognition of their services to the Company.

NESPAK – golden jubilee celebrations

By Mr. Mehboob-ur-Rehman, former Manager P&M Division of NESPAK

In 1973 almost 50 years ago, NESPAK was established with the vision of providing innovative engineering consultancy solutions and achieving self-sufficiency. The year 2023 marks a significant milestone as we celebrate NESPAK's Golden Jubilee. Looking back over the past 50 years, we take pride in NESPAK's legacy of brilliance and grandeur, both at the national and international levels. Every Nespakian feels excited and thrilled to celebrate this historic occasion, paying tribute to the infinite struggle and sacrifices of NESPAK's founders, followed by incredible accomplishments over the past five decades.

The inaugural project awarded to NESPAK in 1973 was the 5th Irrigation Tunnel on the Tarbela Dam Project. Led by Mr. M. I. Chishti, a highly reputable and dedicated engineer, the NESPAK team was carefully selected for the prestigious site office. As a proud member of that team, I was entrusted with arranging the required infrastructure. Although Mr. Chishti is no longer with us, his invaluable contributions to the establishment and success of NESPAK will be long remembered.

As a founding member of the NESPAK team, I take pride in my humble contributions over the course of 22 years. Even at 88 years old, having retired in 1995, I cherish the fond memories of my time at NESPAK. Even now, after nearly 28



Mr. Ahmad Said, VP BDD, presenting a gift hamper to Mr. Mehboob-ur-Rehman, during the latter's visit on July 11, 2023

years of being away from NESPAK and being unfamiliar with most of the current staff members, I am treated with utmost respect and honor by everyone, including the worthy Managing Director.

On the delightful and blissful occasion of the Golden Jubilee celebrations, I wholeheartedly congratulate my comrades at NESPAK and wish them many more years of success and glory. In conclusion, I extend my best wishes for the health, happiness, and a bright future to all my colleagues. I also pray for the continued prosperity and growth of NESPAK, a source of pride for all of us, in the years to come.

Retirements

Upon reaching his superannuation, Mr. Muhammad Ilyas Khan, the Chief Engineer of the Peshawar Office, retired from NESPAK on March 31, 2023, after completing a remarkable tenure of dedicated service. The GM/Head of the Peshawar Office expressed heartfelt appreciation for his years of loyal service to the company and extended warm wishes for a fulfilling post-retirement life.



NESPAK recently bid farewell to several long-serving employees who have retired from their positions in the Water & Agriculture Division. Among those retiring are Mr. Shamshad Ahmad, General Manager, who joined NESPAK in 1998; Mr. Khan Zaman Laghari, Chief Engineer, who joined in 2005; Mr. Saeed Ahmad, Principal Engineer, who joined in 1994; and Mr. Muhammad Mumtaz, Driver, who has been with NESPAK since 1988. Another retiring driver, Mr. Israr Ahmad, who joined in 1993, was also bid farewell. All of these dedicated individuals have reached the age of superannuation and are now embarking on a new chapter in their lives. NESPAK extends its best wishes to the retirees, expressing hope that retirement will provide them with the opportunity to pursue their long-held dreams and aspirations.



Mr. Shamshad Ahmad



Mr. Khan Zaman Laghari



Mr. Saeed Ahmad



Mr. Muhammad Mumtaz



Mr. Israr Ahmad

Research Paper

Mr. M. Qasim Mirza, Sr. Geophysicist/Seismologist from the GT&GE Division, has authored a paper titled "An Integrated Approach for Site Characterization to Understand the Seismic Vulnerability of Attock City, Pakistan." The paper has been accepted and virtually presented at the American Geophysical Union-AGU Fall Meeting 2021. It is now available on the joint official web page of Harvard University (globally ranked #4 in the QS World University Ranking) and NASA-ASO (<https://ui.adsabs.harvard.edu/abs/2021AGUFMNS45A0463Q/abstract>) for the benefit of the wider community.

Restoration of Karo Gungro Outfall Drain System

The Water and Agriculture Division of NESPAK has been awarded the project for the Rehabilitation/Restoration of the Karo Gungro Outfall Drain System and its allied structures, including the construction of the Dewan Drain from the Drainage Inlet of the Darya Khan Branch Drain to the Karo Gungro drain in Tando Muhammad Khan Drainage. The

contract for this project was signed on April 13, 2023. NESPAK is the lead firm, working in association with AA Associates. The total project cost amounts to Rs. 40 million. Mr. Fazal Rehman Kashif, Chief Engineer, has been appointed as the Project Manager for this project.

A team of engineers, consisting of Engr. Imran Hussain Memon, Engr. M. Raza Shujaat, and Engr. Ahsan Latif, conducted a condition survey of the project area. The team visited various locations including the existing Karo Gungro (KG) Outfall



Mr. Mansoor Ali, General Manager/Head Water & Agriculture Division of NESPAK, signing the agreement

Drain, KG Branch Drain, Darya Khan (proposed) Drain, Old Dewan Drain, and New Dewan Drain. This survey took place from June 5, 2023, to June 10, 2023. The main objective was to assess the physical condition of the existing drains within the project's

scope, evaluate the proposed route of the Darya Khan Drain, and examine the condition of existing structures in relation to their hydraulic performance.

A comprehensive briefing on the findings of the survey was presented to the Chief Engineer of Kotri Barrage. The discussion centered around the existing condition of the Karo Gungro Drain, the alignment of the proposed drain, and the condition of its structures. Furthermore, the consultants also met with the Superintending Engineer of the Lower Sindh Drainage Circle to discuss the outcomes of the site visit and share their findings.



A team of engineers carrying out the condition survey of the project area



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