

NEEP NEWSREPORT

OCTOBER - DECEMBER

2024



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Mr. Zargham Eshaq Khan, Managing Director NESPAK, accompanied by Mr. Rana Dawood, Executive Vice President NESPAK, visited the expansion site of the Joint Check Post (JCP) at Wagha on November 19, 2024. They were warmly received by Mr. Zulfiqar Ali Tariq, Project Manager, along with the NESPAK supervision team, representatives from the



MD NESPAK during visit to Joint Check Post Wagha

GSO-1 Works Department of Pakistan Rangers Punjab, and the contractor, M/s Shahid Builders.

During the visit, a detailed presentation was delivered by the NESPAK representative, outlining the current activities and progress of the project. The presentation highlighted the team's consistent efforts to meet the target completion date of August 14, 2025. The Managing Director expressed satisfaction with the project's current pace and commended

MD NESPAK Visits

Joint Check Post Wagha



MD NESPAK discussing project progress

the dedication of the team. Following the presentation, Mr. Zargham Eshaq Khan conducted a thorough site inspection to review the ongoing work.

800 MW Mohmand Dam Hydropower Project



MD NESPAK and BOM members being briefed on the progress of work



MD NESPAK along with BOM of Mohmand Dam Consultant Group

The Board of Management (BOM) of the Mohmand Dam Consultants Group (MDCG) visited the 800 MW Mohmand Dam Hydropower Project on December 12, 2024. They were warmly welcomed by the Project Manager of MDCG, who provided a comprehensive briefing on the project's progress and key milestones.

The BOM was informed that the project's physical progress currently stands at 37%, slightly behind the planned progress of 43%. The Project Manager assured the BOM of the team's steadfast commitment to achieving project goals while maintaining the highest standards of quality.



MD NESPAK along with BOM members at project site

During the visit, the BOM toured several critical areas of the project, including the spillway, main dam site, diversion tunnels, and power tunnel. They also interacted with the site staff, discussing their working

conditions and the challenges faced by the contractor. These interactions showcased the dedication and resilience of the on-ground team operating in demanding conditions.



MD NESPAK's Business Appraisal Visit to Saudi Arabia

Muhammad Zargham Eshaq Khan, Managing Director NESPAK, undertook a three-day visit to the Regional Office KSA in October 2024. The visit aimed to analyze the business landscape, explore new opportunities, and enhance operational efficiency to meet the evolving demands of the engineering sector in the region. MD NESPAK engaged in high-level meetings and productive discussions with key stakeholders, including M.H. Aitah and NESPAK's management, led by Regional Manager Muhammad Zaki Aslan.

VISIT HIGHLIGHTS:

Meetings with the Ministry of Environment, Water, and Agriculture (MEWA)

The visit commenced with a successful meeting between MD NESPAK and the Deputy Minister, Mr. Muhammad Ali Zubaidi, and Assistant Deputy Minister, Mr. Yousaf Naif Ababutain. Discussions focused on the ongoing project, Study & Evaluation of Dams, and explored potential future collaborations with the ministry. MD NESPAK also attended a progress review meeting regarding this project, reaffirming NESPAK's commitment to delivering high-quality engineering solutions.

Engagement with the Saudi Development and Reconstruction Program (SDRPY) for Yemen

MD NESPAK also met with officials from SDRPY to discuss the ongoing and future projects in Yemen. Special attention was given to the newly acquired project in Taiz and the ongoing project in Aden. Project Manager Syed Wajahat Makhdoom briefed MD on the progress and highlighted NESPAK's long-term engagement with SDRPY and M.H. Aitah for development initiatives in Yemen.

Meetings with Saudi Electricity Company (SEC)

MD NESPAK held discussions with the higher management of SEC to review ongoing projects in the Neom region. These meetings aimed to strengthen partnerships and ensure the successful execution of energy sector projects, reinforcing NESPAK's role in Saudi Arabia's infrastructure development.

Business Promotion Initiatives

As part of NESPAK's business promotion agenda, MD NESPAK engaged with senior officials from various ministries. These discussions were focused on fostering business relationships and identifying areas for mutual growth and development.

Meeting with Business Partner, Mr. Muhammad Hisham Aitah

MD NESPAK met with Mr. Muhammad Hisham Aitah, a long-standing business partner of NESPAK in KSA. The meeting reinforced



MD NESPAK with Deputy Minister Mr. Muhammad Ali Zubaidi & Assit. Deputy Minister Mr. Yousuf Naif Ababutain



MD with Yemen Project Manager Syed Wajahat & Team

existing collaborations and explored opportunities for future joint ventures and strategic partnerships.

Dinner hosted by Regional Manager KSA

To honor MD NESPAK's visit, Regional Manager KSA hosted a grand dinner, bringing together project staff and Riyadh office personnel. The event provided an excellent platform for networking, team bonding, and celebrating NESPAK's achievements in the region.

Expression of Gratitude

At the conclusion of the dinner, MD NESPAK expressed sincere appreciation to Muhammad Zaki Aslan for organizing the event and acknowledged his efforts in advancing NESPAK's business initiatives. He commended the entire KSA team for their dedication and contributions, emphasizing the company's continued commitment to excellence and innovation.

MD NESPAK concluded his visit with a deep sense of satisfaction regarding the operations of the Regional Office KSA. He lauded the initiatives taken by Regional Manager Muhammad Zaki Aslan and the hard work of the entire team, reaffirming NESPAK's commitment to expanding its footprint in the region.



MD with Aitah NESPAK Saudi Staff



MD, RM & MEWA Team having Dinner

Kachhi Canal Project

Restoration of Flood Damages 2022



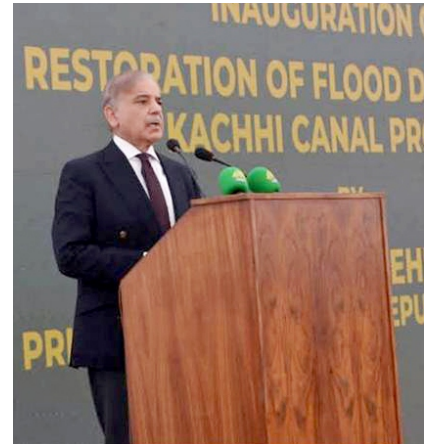
Chief Ministers Punjab and Balochistan, Chairman Wapda and political dignitaries inaugurating the project



Prime Minister of Pakistan along with other dignitaries

The unprecedented and devastating floods of 2022, triggered by hill torrents originating from Koh-e-Sulman, caused extensive damage to the Kachhi Canal, rendering it non-operational. In response, essential restoration works were initiated to restore the canal's functionality for a discharge capacity of 500–750 cusecs. These efforts commenced in September 2024 and were successfully completed by November 2024.

The restored canal was officially inaugurated on



Prime Minister of Pakistan, Mian Muhammad Shehbaz Sharif addressing the participants of inauguration ceremony

November 22, 2024, at Taunsa Barrage by the Prime Minister of Pakistan, accompanied by the Chief Ministers of Punjab and Balochistan, the Chairman of WAPDA, and other political dignitaries.

Following the restoration, water discharge successfully reached the command area in Dera Bugti, Balochistan, enabling irrigation and revitalizing the region's agricultural activities.

Sindh Chief Minister Visits K-IV Project Site

Mr. Murad Ali Shah, Chief Minister Sindh, visited the project site of "Water Requirement for K-IV Project: Improvement of Kalri Baghar Feeder & Keenjhar Lake - Plain Cement Concrete (PCC) Lining of Kalri Baghar Feeder Upper Phase-I" on December 31, 2024. He was accompanied by the Minister of Irrigation and the Secretary of Irrigation, Government of Sindh.

The PC-I cost of the project is Rs. 40 billion, with funding shared equally (50/50) between the Federal Government and the Sindh Government as approved by ECNEC on July 19, 2023. The primary objective of this project is to meet the water requirements of the K-IV Project Phase-I, which supplies water to the Karachi Metropolis. This will be achieved by reducing water seepage, saving an estimated 510 cusecs, through the PCC lining of the Kalri Baghar Feeder Upper (RD 0 to RD 189).



Chief Minister Government of Sindh, Syed Murad Ali Shah, Minister Irrigation Government of Sindh, Mr. Jam Khan Shoro, Mayor Karachi Barrister, Murtaza Wahab MP's Thatta District, Secretary to Government of Sindh Irrigation Department, Engineer Zarif Iqbal Khehro briefing about the lining work during the visit

The Kalri Baghar Feeder Upper, which off-takes from the right bank of the Kotri Barrage, serves as the main source of water for Keenjhar Lake. Work on the PCC lining began in November 2024, with the NESPAK team overseeing all design and execution activities. As of the CM's visit, the PCC lining for 6 RDs has been successfully completed at the site.

Circuit House Rawalpindi

A meeting and joint site visit were held under the chairmanship of Chief Secretary Punjab, Mr. Zahid Akhtar Zaman, along with NESPAK officials, to review the progress of works on the Circuit House Rawalpindi project on November 29, 2024.

NESPAK is providing resident construction supervision services for this significant initiative. Mr. Noman Shahzad, Principal Engineer from NESPAK's Islamabad Office, is serving as the Project Manager, ensuring the project's quality and timely execution.



Chief Secretary Punjab Mr. Zahid Akhtar Zaman and NESPAK Officials visiting the site

MURREE TOURIST GLASS TRAIN

PIONEERING TOURISM AND CONNECTIVITY



Minister of Transport and Mass Transit, Punjab, Mr. Bilal Akbar Khan chairing the meeting

Pakistan is set to unveil its first-ever glass train, designed to promote tourism and enhance regional connectivity. The Murree Tourist Glass Train Project, currently undergoing a feasibility study slated for completion by April 30, 2025, will feature a 55-kilometer track stretching from Islamabad Margalla Railway Station to Bhurban. The project aims to capitalize on the scenic Islamabad-Murree route while ensuring safety and operational reliability, even during challenging weather conditions such as snowfall. A cog-and-pinion rack system will be incorporated to ensure smoother rides on elevated terrain. The initiative, undertaken through a public-private partnership, underscores a commitment to innovation and sustainable tourism.

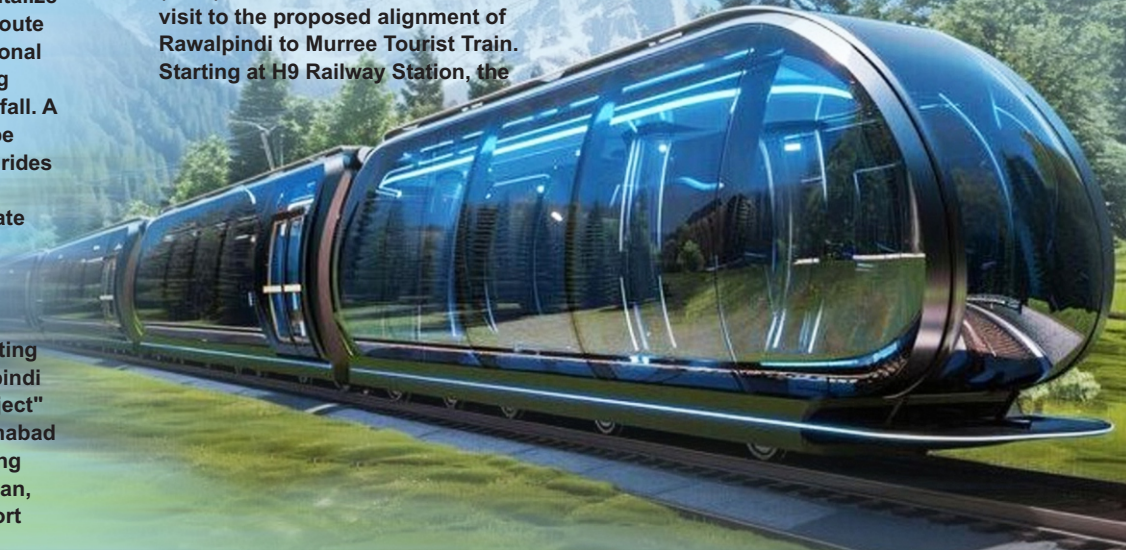
A stakeholders' consultation meeting titled "Feasibility Study of Rawalpindi to Murree Tourist Glass Train Project" was held at NESPAK House, Islamabad on December 24, 2024. The meeting was chaired by Mr. Bilal Akbar Khan, the Honorable Minister of Transport

and Mass Transit, Punjab, and focused on the project's background, the consultant's scope, and data requirements from various departments.

On December 30, 2024, the Honorable Minister, accompanied by officials from the Punjab Mass Transit Authority (PMA) and NESPAK, conducted a site visit to the proposed alignment of Rawalpindi to Murree Tourist Train. Starting at H9 Railway Station, the

NESPAK team presented the alignment plan, including proposed grade separation points and connectivity with Khayaban-e-Johar Metro Station. The Minister stressed minimizing environmental impact through reduced deforestation and land acquisition, alongside initiating a large-scale tree plantation drive during construction. The reconnaissance continued on December 31, 2024, focusing on the proposed rail link alignment from Bastal Morr to Manga. Senior PMA officials, including the Manager of Operations and the Secretary of the Regional Transport Authority (RTA) for Rawalpindi and Murree, joined the visit.

Coordination with Local Authorities: a subsequent meeting, chaired by the Deputy Commissioner (DC) Murree, brought together representatives from the City Traffic Police, Tourism Department, Intelligence Agencies, and the Secretary RTA. The proposed tentative alignment corridor was presented, and discussions were held regarding land permissions for surveys. The DC assured full support for surveys and data collection, encouraging stakeholders to collaborate seamlessly.



AIIB Mission Advances Pakistan's N-5 Highway Reconstruction Project

The Asian Infrastructure Investment Bank (AIIB) recently concluded a project preparation mission for the reconstruction of Pakistan's National Highway N-5 under its Resilient Recovery Framework. Held from November 11 to 14, 2024, the mission focused on refining project components, financing strategies, and ensuring compliance with environmental and social standards.

Key stakeholders, including representatives from AIIB, the National Highway Authority (NHA), and NESPAK, actively participated in the mission. Ms. Uzma Iqbal, Head of the Environmental and Resettlement Services



NESPAK meeting with AIIB and NHA Officials in Islamabad

Division (ERSD) at NESPAK, led her Environmental and Social (E&S) team, comprising Mr. Wasim Abbas, Mr. Fahad Saleem, and Mr. Abdul Basit.

During the mission, the participants discussed and finalized the E&S instruments and the way forward for the project.

Environmental and Traffic Impact Assessments for IT Park, Karachi



Mr. Kamran Yousaf, General Manager/Head GT&GE Division, NESPAK and Mr. Ansar Hussain, Project Director IT PARK PSEB signing the contract

NESPAK has been awarded a consultancy contract for conducting an Environmental Impact Assessment (EIA) and Traffic Impact Assessment (TIA) for the establishment of an IT Park in Karachi by the Pakistan Software Export Board (PSEB).

The contract signing ceremony took place on December 26, 2024, at PSEB's Head Office in Islamabad. The agreement was signed by Mr. Kamran Yousaf, General Manager/Head GT&GE Division, NESPAK, and Mr. Amir Ahmad, Project Director, IT Park, PSEB. The total cost of the IT Park project is Rs. 31.1 billion. The scope of work includes the preparation of a comprehensive EIA, encompassing a detailed traffic impact assessment to ensure sustainable development.

450 MW Rousch Power Plant

National Power Parks Management Company Limited (NPPMCL) has awarded NESPAK a consultancy contract for assessing the assets, reviewing preservation protocols, and conducting performance testing of the 450 MW Rousch Combined Cycle Power Plant.

Originally commissioned in the 1990s as an Independent Power Producer (IPP), the plant was recently transferred to the Government of Pakistan (GoP), with NPPMCL now overseeing its operations. NESPAK will play a crucial role in evaluating the plant's current condition and ensuring its operational readiness. NESPAK's scope of services includes asset assessment, preservation protocol review, and conducting performance testing of the plant.

NESPAK EVP Visits Karakar Tunnel Project Site

Mr. Dawood Rana, Executive Vice President (H&TE Division) of NESPAK, visited the Karakar Tunnel Project site to conduct a detailed inspection and review the project's progress. The Karakar Tunnel is a landmark initiative undertaken by the Pakhtunkhwa Highway Authority (PKHA) and funded through provincial development resources. The project, with a bid cost of Rs. 9.2 billion, commenced in February 2023 and is scheduled for completion in February 2026.

The project features a 2.2 km tunnel, 1.3 km of access roads, a box culvert, and a

125-meter span bridge. Its primary objectives include enhancing mobility, improving safety, reducing vehicle operating costs, and providing an efficient, time-saving, and congestion-free access route between the Buner and Swat districts. Additionally, the project is expected to contribute significantly to the socio-economic uplift of the Buner district, benefiting its one million residents by facilitating easier access to the Swat Motorway (M-16).

During the visit, the EVP received a comprehensive briefing on various



Mr. Dawood Rana, Executive Vice President, H&TE Division during the site visit

technical challenges and issues faced during the project's execution. He provided valuable suggestions to expedite the pace of work and ensure the project remains on track for its scheduled completion.

Progress Review of Bicycle Lane Project

Muhammad Ali Randhawa, Chairman of the Capital Development Authority (CDA), chaired a progress review meeting to discuss the proposed design for bicycle tracks in Islamabad. The meeting was attended by relevant CDA members and officers, along with representatives from NESPAK, who are actively involved in the project.

During the meeting, General Manager NESPAK Mukhtar Arshad, Project Architect Taimoor Akhtar, and Engineer Naveed Akhtar provided a detailed briefing on the

proposed design for the bicycle tracks. NESPAK is currently finalizing the most suitable design, keeping in view Islamabad's aesthetic appeal and sustainability goals. Chairman Randhawa emphasized that the bicycle tracks should not only enhance the city's natural beauty but also serve as a practical and alternative mode of transportation for its residents. He highlighted the importance of integrating functionality and visual appeal to support Islamabad's status as a sustainable city.



Chairman CDA Muhammad Ali Randhawa chairing a meeting regarding cycle track and inter city bus terminal

Gilgit-Baltistan Council Secretariat Office Building

The Islamabad Office of NESPAK has signed a contract for the project titled "Consultancy Services for Feasibility Study, Detailed Design, and Construction Supervision of the Gilgit-Baltistan Council Secretariat Office Building at Sector G-5/1, Islamabad."



Mr. Aziz Aslam, General Manager/Head Islamabad Office signing contract

The contract signing ceremony took place at the GB Secretariat Office on November 28, 2024. The project duration is 40 months, and the client is the Gilgit-Baltistan Secretariat, Islamabad.

NESPAK's services will encompass feasibility study, topographic survey, master planning, geotechnical

investigation, detailed design for the building, external development, PC-I, obtaining relevant approvals from local authorities, pre-qualification and bidding for hiring a contractor, and construction supervision. Dr. Muhammad Rizwan, Chief Engineer of the Islamabad Office, has been appointed as the Project Manager. The total estimated cost of the project is Rs. 1,800 million.

Federal Audit Complex at Sector G-8, Mauve Area, Islamabad



Meeting in progress

A meeting and site visit were held under the chairmanship of the Director General (DG) Audit Islamabad to review the progress of works for the "Federal Audit Complex" located in the Mauve Area, Sector G-8, Islamabad on November 12, 2024. The project has been handed over to the Capital Development Authority (CDA) from the Public Works Department (PWD) for execution.

NESPAK is providing detailed design and construction supervision services for this significant project. Mr. Mukhtar Arshad, General Manager of NESPAK's Islamabad Office, is serving as the Project Manager.

High-Profile Visit to Sindh Forensic Science Laboratory, Karachi

Hon'ble Justice Mr. Muhammad Ali Mazhar, Judge of the Supreme Court of Pakistan and Monitoring Judge for Anti-Terrorism Courts (ATC) Sindh, along with Hon'ble Justice Muhammad Iqbal Kalhoro, Judge of the Sindh High Court and Judge ATC Sindh, Syed Zakir Hussain, Administrative Judge ATC-I Karachi, Mr. Asif Hyder Shah, Chief Secretary Sindh, and Muhammad Iqbal Memon, Additional Chief Secretary-Home Department Sindh (Project Director, SFSL), visited the construction site of the Sindh Forensic Science Laboratory (SFSL) in Karachi to review the progress of work.

Mr. Muhammad Arif Khan, Chief Architect/Acting Head, and Mr. Rashid Hussain, Chief Engineer and Project Manager of the A&P Division Karachi, delivered a detailed presentation on the project's progress. They also guided the monitoring team on a comprehensive tour of the under-construction laboratory building.

The SFSL building is a basement-plus-ground-plus-five-storey structure with a

covered area of approximately 350,000 square feet. The main laboratory is connected to the Evidence Collection Block (B+G+1) through an underground RCC corridor. Additionally, the SFSL complex includes a reception block, a

boundary wall enclosing 30 acres of land with watchtowers, and other infrastructure development works. The total construction cost of the project is estimated at Rs. 9.275 billion.



Dignitaries visiting under construction site of Sindh Forensic Science Laboratory

PROJECTS IN OMAN



Signing MoU with Middle East College

Tatweer-SEZAD-OPAZ has awarded NESPAK & Partners LLC Oman the project titled "Consulting Services for Designing Blocks Exempt from Public Benefit in the Special Economic Zone of Duqm."

NESPAK successfully obtained approval for the Preliminary Design Drawings after presenting and defending its submission

It is a great honor for the Regional Office Oman that the Head of the Technical Support Section of Tatweer-SEZAD-OPAZ visited NESPAK Office in Muscat on December 22, 2024. The Regional Manager introduced all the staff members. He told them about the caring & knowledge sharing of Omani Engineers in

at a meeting held at the SEZAD Headquarters in Duqm on December 3, 2024. The detailed design drawings and preparation of tender documents are currently in progress.



addition to fulfilling the Omanization requirements aligned with the law of the land. He admired NESPAK services being provided in Oman, especially at the Governorate of Al Wusta-Duqm since 2013.

NESPAK & Partners LLC Oman was awarded the Project titled "Consultancy

Services of Construction Supervision of Remaining Sewerage Network and Design & Build of Sewage Treatment Plant, Buildings and TSE Pipeline for Wilayat Al – Musannah." The Project Cost is R.O. 9.877 million. It was commenced on October 01, 2023, and is to be completed on June 01, 2025.



Presentation given to Tatweer-SEZAD on Residential Phase-I, II & Light Industries at Duqm



NESPAK team with Head of Technical Support Section of Tatweer-SEZAD

Project kick-off meeting held in Oman

Mr. Asif Mehmood, Regional Manager (RM) of NESPAK Oman, attended a Kick-Off Meeting on October 16, 2024 for the project titled "Design and Construction of

Roads and Bridge at Mughsayl, Governorate of Dhofar" with the Ministry of Transport, Communications, and Information Technology (MTCIT) and M/s

AZ Engineers LLC (EPC Contractor).

Notably, the RM Office in Oman has revived its working relationship with MTCIT in the Governorate of Dhofar after almost 15 years. The signing of contract agreements for two projects marks a significant milestone, and the team remains optimistic about future business opportunities.



Kick-Off meeting of Mughsayl Bridge



Asif Mehmood, Regional Manager (Muscat) during visit of Mughsayl Bridge with DG-MTCIT

Following the Kick-Off Meeting, the Regional Manager of Oman visited the site alongside the Director General of MTCIT for the Governorate of Dhofar and the Project Manager of M/s AZ Engineers LLC on October 17, 2024.



Pak-Oman Expo-2024



NESPAK Oman team group photo with Pakistan Embassy Officials on Oman-Pakistan Expo-2024

The H.E. Ambassador of the Islamic Republic of Pakistan to the Sultanate of Oman invited NESPAK & Partners LLC to participate in the Pak-Oman Expo 2024 on October 13, 2024. During the event, NESPAK delivered a presentation to esteemed members of various ministries, authorities, and business communities. The presentation highlighted NESPAK's contributions to the Sultanate of Oman,

where it has played a pivotal role in developing high-quality infrastructure since 1980. The audience admired and appreciated NESPAK's services and achievements in the region.

Meanwhile, the Regional Manager of NESPAK Oman attended a meeting with H.E. the Governor of Sohar on December 9, 2024. The meeting was also attended by senior officials from MTCIT Muscat,



Asif Mehmood, Regional Manager (Muscat) meeting with H.E. Governor Sohar for Suwaiq Interchange

Sohar Municipality, and members of Majlis-e-Ashura. The agenda focused on the "Concept Design of the Suwaiq Interchange" linked with the Batinah Coastal Road.

Study, Evaluation of Dam Safety Across Saudi Arabia

NESPAK's Regional Office in Riyadh, Saudi Arabia, was awarded a consultancy services contract by the Ministry of Environment, Water and Agriculture (MEWA), Saudi Arabia, in December 2023. The project entails comprehensive evaluation and safety assessment of dams across various regions of the Kingdom.

The project scope includes hydrology assessments of 574 dams, safety assessment of 40 hazardous dams, development of a flood protection plan for 240 locations, inspection of 60 dams and preparation of generalized dam safety guidelines.

As part of the assessment of 40 hazardous dams, the GT&GE Division team, led by Mr. Tanvir Abbas, Chief Engineer, conducted site visits to several key locations, including Abila Dam (Riyadh Region), Akhdar and Uwayned Dams (Tabuq Region), Ahmir Dam (Madina Region) and Bedah Dam (Al Baha Region). Additionally, the team successfully completed and submitted the designs for the Hasidah Al-Sharqia Dam and Ghalba Dam.



NESPAK team visiting the new Dam sites Akhdar & Uwayned Dams in Tabuq Region

NESPAK Expands Geophysical Activities

The GT&GE Division of NESPAK has expanded its geophysical activities internationally by adopting innovative techniques and utilizing state-of-the-art, globally recognized equipment as part of its business development initiatives.

The Geophysical & Seismotectonic Studies (G&SS) Section conducted a Multichannel Analysis of Surface Waves (MASW) using its newly acquired advanced equipment, along with a Seismic Refraction Survey, for the project titled "Consultancy Services for the Design

and Construction of Mughsayl Road and Bridge in Dhofar, Oman" in December 2024. These activities were executed by Mr. M. Qasim Mirza, Section Head of G&SS, and Mr. Affan Sabir, Senior



Meeting at the site with Client's Engineer

Geophysicist. The G&SS Section of the GT&GE Division offers comprehensive engineering solutions through innovative geophysical techniques across a wide range of sectors.



Geophysical data acquisition at the site

NESPAK Expands Role in Mining and Mineral Sector

Embarks on Attock Placer Gold Project

The Mines and Minerals Department Punjab and NESPAK have joined hands for the Attock Placer Gold Project, marking a significant milestone in Pakistan's mining sector. NESPAK signed the contract for "Consultancy Services for Preparing Bidding Documents and Transaction Advisory Services for Nine (09) Placer Gold Blocks along River Indus in District Attock" on December 24, 2024. The agreement was signed by Mr. Kamran Yousaf, General Manager/Head of the Geotechnical & Geo-Environmental Division, and Mr. Mansoor Ahmad, Director General, Mines and Minerals Department, Government of Punjab.

The signing ceremony was graced by Mr. Sardar Sher Ali Gorchani, Punjab Minister of Mines and Minerals, Mr. Pervez Iqbal, Secretary Mines and Minerals, Punjab, Mr. Muhammad Arif, Chief Material Specialist/

Section Head, GMM and Syed Zohaib Hassan Bukhari, Senior Geologist, GT & GE Division Strategic Vision for the Mining Sector.

Recognizing the significance of the mining sector, NESPAK has undertaken notable projects such as:

- Construction Material Sources and Mineral Development Potential in Azad Jammu & Kashmir
- Delineation of Positive and Negative Mining Areas for Cement Plants in the Salt Range (Punjab Mines & Minerals Department)
- Lead-Zinc-Barite Exploration Project in Khuzdar, Balochistan in collaboration with Bollen Mining Enterprises (BME) and the Government of Balochistan.



Mr. Sardar Sher Ali Gorchani, Punjab's Minister of Mines and Minerals and Mr. Kamran Yousaf, General Manager/Head GT&GE division signing the contract

Completion of PULSE Lahore and Sahiwal Division Projects

NESPAK's GIS Section, W&A Division, has successfully completed the Punjab Urban Land System Enhancement (PULSE) Project for Lahore and Sahiwal Divisions. NESPAK was awarded the digitization of Maps in Punjab, specifically Package II - Lot 2 (Lahore) and Package III - Lot 2 (Sahiwal).

Key accomplishments include digitization of over 2,500 mouzas (1,000 in Sahiwal and 1,500 in Lahore), mapping of over 2 million land parcels (Khasra) with precise boundary dimensions, Dimension Line, Khasra and Khasra Desolve layer, attachment of PLRA records to each land parcel, creation of essential layers for each Mouza, including Murabba Grid, Acre Grid, Tri-junction (Sehada) Points,

Corner Points of each Murabba and Acre polygon. This project marks a significant milestone in the digital transformation of land records in Punjab.



Layout map of project

Punjab Irrigation Department Hires NESPAK Services

NESPAK Construction Management Division has signed a landmark Consultancy Services Contract (CSC) with the Punjab Irrigation Department. The contract, titled "Monitoring of Development Projects/Programs in the Irrigation Department," commenced on November 1, 2024, and spans three years.

The consultancy services include design review, monitoring, reporting, assistance in tendering, and construction supervision for projects under the Annual Development Program (ADP) and Public Sector Development Program (PSDP).

Currently, NESPAK's ADP team is managing over 200 projects across



Mr. Muhammad Aamir Khan, Chief Strategic Planning /Reform Unit, Lahore (Punjab Irrigation Department) and Mr. Imran Badar, General Manager- Head CMD (NESPAK) signing the contract agreement while Mr. Nasir Maqbool CE NESPAK and other officials are also present

Punjab, with a combined value of Rs. 120 billion. These projects include: rehabilitation of canal systems, remodeling of drainage networks, concrete lining of canals, construction of large and small dams and remodeling and reconstruction of hydraulic structures such as: head regulators, cross-regulators, falls, cross-drainage structures, bridges, outlets and inlets, flood protection and river training works and hill torrent management.

Ghazi University, Dera Ghazi Khan



Mr. Mukhtar Arshad, General Manager, Islamabad Office during site visit

A meeting and joint site visit were conducted under the chairmanship of Vice Chancellor Dr. Ashfaq Ahmad of Ghazi University, Dera Ghazi Khan, along with NESPAK officials, to review the progress of works on the university's development project on November 29, 2024.

NESPAK is providing detailed design and

construction supervision services for this project, ensuring the delivery of high-quality infrastructure to support the university's academic and administrative functions. Mr. Mukhtar Arshad, General Manager of NESPAK's Islamabad Office, is serving as the Project Manager, overseeing all aspects of the project to ensure its timely and efficient execution.

National Police Hospital, Islamabad

A progress review meeting regarding the construction of the "National Police Hospital, Islamabad" was held on November 12, 2024, under the chairmanship of the Inspector General (IG) of Police, Islamabad. The meeting was attended by representatives from the Capital Development Authority (CDA) and NESPAK to discuss the project's current status and timelines.

The IG Police emphasized the importance of adhering to the project timeline and instructed the

stakeholders to ensure its completion by June 2025. NESPAK is responsible for providing detailed design and construction supervision services for this significant project. Mr. Mukhtar Arshad, General Manager of NESPAK's Islamabad Office, is serving as the Project Manager.



Meeting in progress

Feasibility Study for Groundwater Potential along Nara Canal in Sindh

The Water and Agriculture Division of NESPAK has been awarded the consultancy services for a feasibility study to evaluate Groundwater Potential within the 10 km Belt Astride the Nara Canal in Sindh.

The scope of the study encompasses a comprehensive set of activities, including data collection and review to establish a strong foundation for analysis,

hydrogeological surveys and geophysical investigations to assess subsurface conditions, pumping tests and groundwater modeling to evaluate aquifer characteristics and water availability, recharge and discharge analysis and groundwater quality assessment to determine sustainability and usability of the resource, integration with the existing Hakra River study for comprehensive water gain and loss assessments, installation of Piezometers/Observation Wells for monitoring groundwater levels,



Field survey in progress

environmental impact assessment and socio-economic analysis to evaluate project implications and stakeholder consultations to incorporate local insights and foster collaboration.

Forensic Science Laboratory (FSL) in Peshawar



Exchange of signed Contracts

The Home and Tribal Affairs Department, through the C&W Department of the Government of Khyber Pakhtunkhwa, has signed an agreement with NESPAK for providing design consultancy services for the establishment of a state-of-the-art Forensic Science Laboratory in Peshawar. This facility will feature the highest number of forensic disciplines in the country and is anticipated to cost approximately Rs. 4.00 billion.

The laboratory will include 13 disciplines with provisions for three additional facilities in the future. NESPAK's scope of services includes survey and investigations, master planning, architectural and engineering design, FMS design, cost estimation, and preparation of the PC-I document. These services will be delivered within six months.

The contract signing ceremony included an exchange of agreements between Mr. Muhammad Zafar Aman, General Manager/Head of NESPAK Peshawar Office, and Mr. Muhammad Ali, Chief Engineer (C&W), Mega Projects Division.

POWERCHINA International, NESPAK Sign MoU

An MoU was signed between NESPAK and POWERCHINA INTERNATIONAL GROUP Limited in October 2024 to enhance governance and operational efficiency within Pakistan's power system. This strategic agreement aligns with the China-Pakistan Economic Corridor (CPEC) framework, aiming to foster cooperation in pump storage hydropower development for ensuring the sustainability and reliability of Pakistan's power industry.

POWERCHINA, a global leader in hydropower, thermal power, renewable energy, and transmission and distribution solutions, brings unparalleled expertise to this collaboration. Pakistan, with its abundant potential for pump storage hydropower projects, seeks to leverage this partnership to address grid stability

challenges caused by the integration of numerous wind and solar power installations. The MoU was signed at the POWERCHINA office in Islamabad by Mr. Kamran Yousaf, Head of GT & GE Division, NESPAK, and Mr. Su Dong, representing POWERCHINA International.



MOU signing Ceremony

NESPAK Services for Disposal of GENCOs Power Stations

NESPAK has secured consultancy contracts for the dismantling and disposal of several power stations operated by GENCOs (formerly WAPDA thermal power generation companies). This prestigious assignment underscores NESPAK's continued excellence in the energy and infrastructure sectors.

The project involves the dismantling and disposal of defunct power plants that have exceeded their operational lifespans and are no longer licensed for power generation. NESPAK's scope of services includes conducting detailed site surveys and technical assessments for each power plant, preparing bidding documents for dismantling and disposal contracts, identifying shared facilities and managing interfaces with operational plants, evaluating bids and assisting in the award of contracts and preparing final project close-out reports with lessons learned and recommendations.

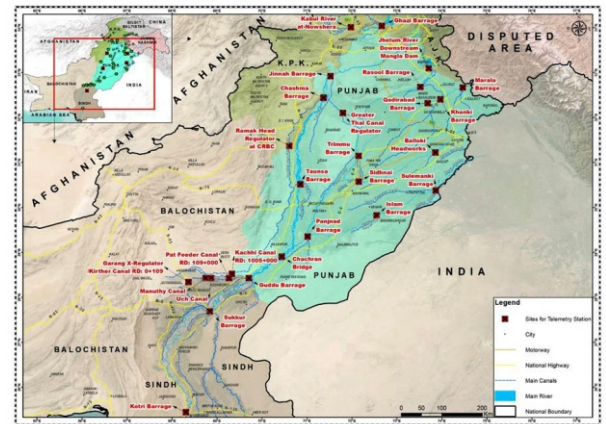
The consultancy will address multiple power plants with a total installed capacity exceeding 5,400 MW, spread across various locations in Pakistan. Each site presents unique technical and logistical challenges, requiring tailored solutions. NESPAK teams have already been mobilized nationwide to initiate site surveys and begin groundwork for this critical project.

Telemetry System for Real-Time Discharge Monitoring at 27 Key Sites

NESPAK will carry out a study with the purpose to establish a flow monitoring system for more accurate and transparent water accounting and distribution system. This will enhance confidence among stakeholders on the accuracy of the gauge data collected, based on which the magnitude of water discharging from different locations. The key objectives of the study are enlisted below.

- Establish flow monitoring system for accurate and transparent water accounting and distribution
- Prepare Telemetry Network design and Bidding Documents for EPC Contract
- Assistance in EPC Bidding Process
- Supervision, Installation, commissioning, and Contract Administration
- Assist WAPDA in fulfilling "Employer's Obligations" under the EPC Contract

To address the study objectives, services of NESPAK have been hired with the objective to assist Water and Power Development Authority (WAPDA), in providing Project Management, Site Management, Contract Management and Technical Services to review the EPC Contractor's activities including design, and to advise WAPDA on all aspects of the



Location map of 27 key sites

fixed price lump sum, turnkey EPC Contract for the implementation of project.

In this regard, an important activity in the Consultants scope is to validate the discharge coefficients and rating tables at 27 Indus Basin Irrigation System (IBIS) monitoring sites. The validated parameters will then be utilized in telemetry system for unified computation of discharges under varying hydraulic conditions. It has been planned to conduct series of technical sessions to discuss application of existing formulae with concerned PIDs as a confidence building measure. A technical session was conducted at Sukkur Barrage for the Application of Existing Hydraulic formulas under various flow conditions at Sukkur Barrage on November 08, 2024 at Sukkur Barrage.

Safe City Projects for Dasu and Basha Dams

NESPAK has been awarded two major Safe City Projects at Dasu, District Kohistan Upper, and Diamer Basha Dam, reinforcing its leadership in security and surveillance consultancy.

On October 2, 2024, NESPAK signed a contract with WAPDA to provide management consultancy for the Dasu Safe City Project, aimed at securing the workforce and surrounding communities of the Dasu Hydropower Project (DHPP). Given the region's security challenges, the project will deploy a digital surveillance system with IP-based cameras, smart sensors, detectors, and scanners. It will enhance coordination among security agencies and law enforcement to optimize threat response mechanisms.

Similarly, NESPAK's New Ventures Division has been awarded the Safe City Project for the Diamer Basha Dam area by the Diamer Basha Development Company (Pvt.) Ltd., a WAPDA subsidiary. This initiative integrates AI-driven facial recognition, PTZ and general surveillance cameras, crowd analytics, body-worn cameras, and an advanced video management system. A fully equipped C4I (Command, Control, Communication, Computers, and Intelligence) center will coordinate security operations.

Both projects include extensive fiber



Contract signing ceremony for Safe City Basha Dam



Contract signing ceremony for Safe City Dasu Dams

optics deployment, LTE networks, access control systems, and critical civil works. NESPAK's role encompasses design review, contractor selection, and on-site implementation supervision. The

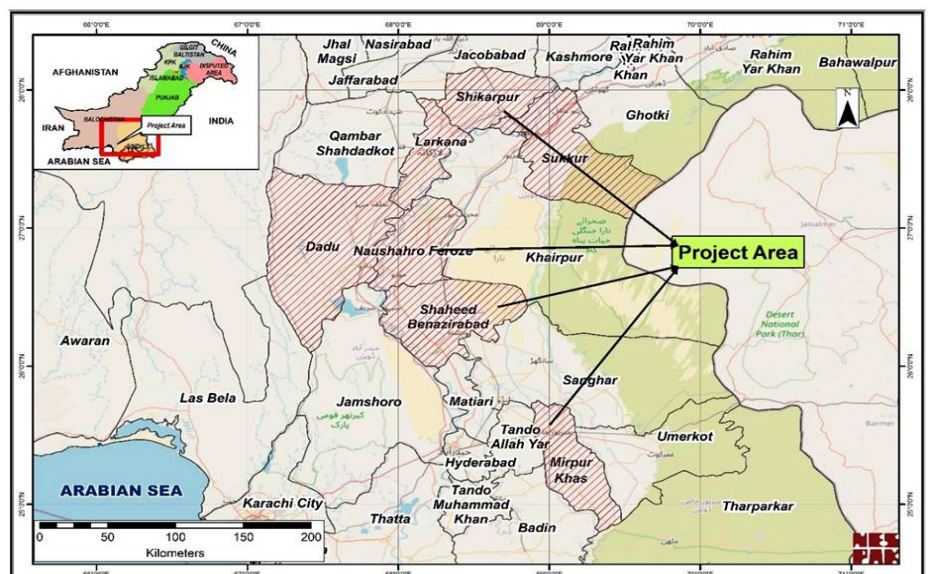
consultancy cost for the Basha project alone is Rs. 218.3 million. Mr. Muhammad Jawad Aslam Bajwa, NV Division, has been designated as the Project Manager for this Project.

NESPAK to Conduct UAV Drone Survey, Geospatial Mapping

The Government of Sindh (GoS) has established Sindh Peoples Housing for Flood Affectees (SPHF), a Section 42 company, to spearhead the reconstruction of 2.1 million homes and related infrastructure in the province following the devastating floods. As part of this initiative, SPHF has engaged NESPAK to conduct a UAV Drone Survey and geospatial mapping of selected Dehs across seven districts of Sindh. NESPAK secured this project through a competitive bidding process.

The scope of the project involves the use of UAV drone technology and geospatial mapping to develop a comprehensive and precise database of villages and rural homes in Sukkur, Larkana, Shikarpur, Mirpur Khas, Dadu, Naushahro Feroze and Shaheed Benazir Abad.

Key project activities include mapping housing units and public infrastructure in



623 villages across 67 selected Dehs, geo-tagging and labeling settlements, generating high-resolution orthomosaic

imagery and creating Digital Elevation Models (DEM) and Digital Surface Models (DSM).

Work-Life Balance and Stress Management Session at NESPAK



Mr. Amir Zahoor Khan addressing the participants

The Human Resources Division of NESPAK recently organized an exclusive session on Work-Life Balance and Stress Management for the company's top management. The session, held on December 24,

2024, featured distinguished guest speakers Mr. Amir Zahoor Khan (a foreign-qualified, certified trainer, and senior banker turned management consultant) and Ms. Yallah Ali Shahid (a clinical psychologist and trainer).

This session was designed specifically for Heads of Divisions and senior executives, the session aimed to highlight the importance of work-life balance and its impact on physical and mental well-being. Participants explored key aspects such as identifying sources of stress, developing



(From L to R): Mr. Danish Raza, VP/Head NVD, Mr. Ahsan Anwar, EVP/Head HR and Ms. Yallah Ali Shahid attending the session

effective coping strategies, and enhancing resilience, adaptability, and overall quality of life through a healthier lifestyle.

At NESPAK, we don't just embrace change—we lead it. As part of our ongoing transformation, we continue to invest in the well-being and professional growth of our people.



Trainer and participants in a group photo

EPADS Training

The Public Procurement Regulatory Authority (PPRA) organized a five-day training session on the e-Pak Acquisition & Disposal System (EPADS) from December 16 to 20, 2024, in Islamabad. NESPAK officials Mr. Munawar Hussain, Principal Engineer Contracts Division, Ms. Saba Shaukat Sr. Economist ESD Section, New Venture Division & Ms. Sidra Ilyas Business Development Officer, Human Resources Division, attended the training session. The training session included hands-on activities focused on the various

modules of EPADS, equipping participants with practical knowledge and skills for effectively utilizing the system. Upon successful completion of the training, all three NESPAK officials were awarded certificates.



Trainers and participants of EPADS Training

Trainings

Mr. Ahsan Latif, Senior Engineer at the W&A Division of NESPAK, delivered a lecture at the WAPDA Engineering Academy in Faisalabad during a two-day training session held on October 15 and 16, 2024.

The session was part of a sector-specific course designed for the promotion of Assistant Executive Engineers at WAPDA. The training, titled "Advanced HEC-RAS Techniques for Water Resources Planning," focused on equipping participants with advanced skills in flood modeling and water resources management using the HEC-RAS software.

Mr. Latif provided valuable insights into the fundamentals and advanced applications of HEC-RAS, emphasizing its role in effective water resources planning.



Academics

Dr. Muhammad Abdullah Sohl, Senior Geomatics Specialist in the Water and Agriculture Division, has successfully completed his PhD in UAV/Drone



Photogrammetric Engineering and Remote Sensing from the Department of Space Science, University of the Punjab.

His doctoral research, titled "An Investigation into Low-Cost UAV/Drone Technologies in the Domains of Photogrammetric Engineering and Remote Sensing," explores innovative and cost-effective UAV applications. The findings have practical implications for industries such as civil engineering, construction, environmental monitoring, engineering surveying, and mapping. Dr. Abdullah brings a strong academic foundation to his work, having previously earned a Master's degree in Photogrammetry and Geoinformatics (EUR-ACE Engineering) from Stuttgart, Germany.

Designated



Mr. Mukhtar Arshad, General Manager/Divisional Coordinator of the Islamabad Office, has been appointed as the Regional Manager of the Islamabad Regional Office, effective from December 23, 2024. This designation is in addition to his current responsibilities.

Advanced Aircraft Control Techniques Explored in Latest Publication

A groundbreaking study titled "Aircraft Control by Using LQG & LQR with Optimum Estimation - Kalman Filter Design" has been published in the December 2024 issue (Vol. 6, No. 4) of the International Journal of Applied Engineering & Technology by Roman Science Publications (ISSN: 2633-4828).

Authored by Saeed Mahmood Gul Khan, Khalid Mehmood, and Shehroz Hashim from the Distribution Section P&M, the study highlights the synergy between power system engineering and control systems expertise. This research delves into advanced methodologies for aircraft control, integrating Linear Quadratic Gaussian (LQG) and Linear Quadratic Regulator (LQR) techniques with optimal estimation through the Kalman Filter. The approach offers enhanced stability and precision, providing innovative solutions for challenges in aerospace engineering.



Saeed Mahmood Gul Khan



Khalid Mehmood



Shehroz Hashim

Ms. Sadaf Saeed Represents Pakistan at GEOMANDU 2024

Ms. Sadaf Saeed, Principal Engineer, GT & GE Division, was selected by the Pakistan Geotechnical Engineering Society (PGES) as a member of a four-person delegation to participate in the Geomandu 2024 International Conference in Kathmandu, Nepal, held on November 28-29, 2024. Her participation was funded by PGES. Remarkably, Ms.

Sadaf was the sole female geotechnical engineer from Pakistan to attend this prestigious event.

This achievement brings immense pride to NESPAK, as Ms. Sadaf's representation highlighted her dedication and expertise



PGES delegate with President ISSMGE and President IGS

on an international platform. During the conference, she co-authored and presented a research paper titled "Slope Stability Studies in IGM at a High-Altitude Site in Pakistan - A Case Study," showcasing valuable insights into high-altitude geotechnical challenges.

International Conference at UCP

The University of Central Punjab (UCP) hosted its 2nd International Conference on New Trends in Civil Engineering (NTCE) on December 9-10, 2024, at its premises. NESPAK played an active role in the event, with Ms. Sadaf Saeed, Principal Engineer GT&GE Division and a Board of Studies (BOS) member at UCP, leading the organization of technical sessions and lectures. She facilitated NESPAK's engagement through paper presentations, technical lectures.

Key technical lectures included "The Diamer Basha Dam Project – A Lifeline for Pakistan" presented by Dr. Tahir M. Hayat, CEO – DBCG (Keynote Speaker), "Risk Management in Construction Contracts" by Mr. Mansoor Ali, GM/Head W&A Division and "NESPAK's Unique Approach to Project Excellence" by Mr. Mansoor Durrani, Senior Architecture Advisor, RUDA. Additionally, two research papers



Panel discussion with moderator and participants

were presented by NESPAK's Structural Engineering Division.

Ms. Sadaf Saeed and Ms. Ayesha Faraz participated as panelists in discussions on "Building the Future – Overcoming Infrastructure Challenges with Innovative Construction Technologies" and "Empowering Women in Construction – Breaking Barriers & Shaping the Future"

Ms. Sadaf Saeed also presented her technical paper, "Impact of Climate

Change on the Safety of Civil Engineering Works." Her contributions were highly appreciated by the Rector of UCP.



Participants at thematic stall of NESPAK

Seven 500kV & 220kV Grid Stations in the North-World Bank (Group-B) Projects



Visit to the project site

The fourth and final 250MVA, 220/132kV Auto Transformer (ATR) at the Sheikhpura Grid Station (500kV Lahore) was successfully energized on October 20, 2024. This marks the completion of the augmentation of ATRs at the Sheikhpura Grid Station.

The second and third 250MVA, 220/132kV ATRs at the Wapda Town Grid Station (220kV) were energized on November 21, 2024, and December 18, 2024, respectively. With these additions, the augmentation of ATRs at the Wapda Town Grid Station has also been successfully completed.

These developments significantly enhance the capacity and reliability of the power transmission system, contributing to a more stable energy supply for the region.

Eight 220kV, 500kV Grid Stations in South and North (Group-A)

NESPAK continues to provide engineering consultancy services for the NTMP-I World Bank Group-A Projects. These projects involve the construction supervision of extension and augmentation works at eight 220kV and 500kV grid stations across Pakistan's southern and northern regions.

The primary objective of the project is to enhance the capacity and reliability of



Augmentation Works of (02) Two sets of 220kV Circuit Breakers out of Six (06) completed at 220/132kV Summandari Grid Station



132kV Busbar strengthening works completed at 220/132kV Bannu Grid Station

Pakistan's national transmission system by upgrading 160MVA transformers to 250MVA transformers. This improvement will help reduce transmission losses and benefit industrial, rural, and urban DISCO consumers.

So far, fifteen of the sixteen 250MVA Auto Transformers have been energized and successfully integrated into the NTDC network, while strengthening of the 132kV busbar at the 220kV Bannu Grid Station has been completed. The augmentation of 220kV circuit breakers at the 220kV Samundari Grid Station is currently underway.

The project is 88% complete. The remaining scope includes augmentation works at the 220kV Quetta Industrial Grid Station, busbar strengthening at the 220kV Samundari Grid Station, and SCADA integration at various grid stations. These activities are awaiting necessary shutdowns for completion.



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