

Daira Sabz Construction and Road Building Services

Daira Sabz Engineering and Consulting Group delivers comprehensive infrastructure, construction, and engineering services across Afghanistan. Driven by a commitment to quality, professionalism, sustainability, integrity, collaboration, innovation, and client satisfaction, we provide tailored and reliable solutions that meet both international standards and local needs.



Our expertise spans a wide array of services, from initial feasibility studies and detailed structural design to project management, environmental stewardship, and contract management. We specialize in the development of essential transportation networks, robust civil engineering projects, urban and industrial infrastructure, and agricultural facilities, supporting Afghanistan’s growing demand for resilient and sustainable infrastructure.

Employing advanced technologies like Building Information Modelling (BIM), Geographic Information Systems (GIS), and quality management systems, we ensure precision, efficiency, cost-effectiveness, and adherence to regulatory standards across every project phase. With a strong focus on health, safety, and capacity building, our services are designed to enhance community well-being and support long-term growth in the region. Daira Sabz is committed to meeting customer needs through communication, planning, and continuous process improvement activities.

Daira Sabz remains dedicated to building a stronger Afghanistan through infrastructure solutions that promote connectivity, economic development, and environmental sustainability, making us a valued partner in Afghanistan’s journey toward a sustainable and prosperous future. Daira Sabz Consulting and Engineering Group provides the following services:

1 Design and Engineering Services

- **Geotechnical Engineering:** Site assessments, soil and rock testing to inform safe, effective construction on various terrains.
- **Foundation Engineering:** Soil testing, foundation design, and ground improvement for buildings, roads, dams, tunnels, railways, airports, and other structures.
- **Structural Design and Analysis:** Survey, design, and construction of buildings, dams, bridges, railways, airports, tunnels, and other infrastructure with a focus on stability, safety, and durability.
- **Water Supply and Wastewater Systems:** Survey, design, and construction of water distribution, sewerage system, wastewater treatment, and drainage systems.

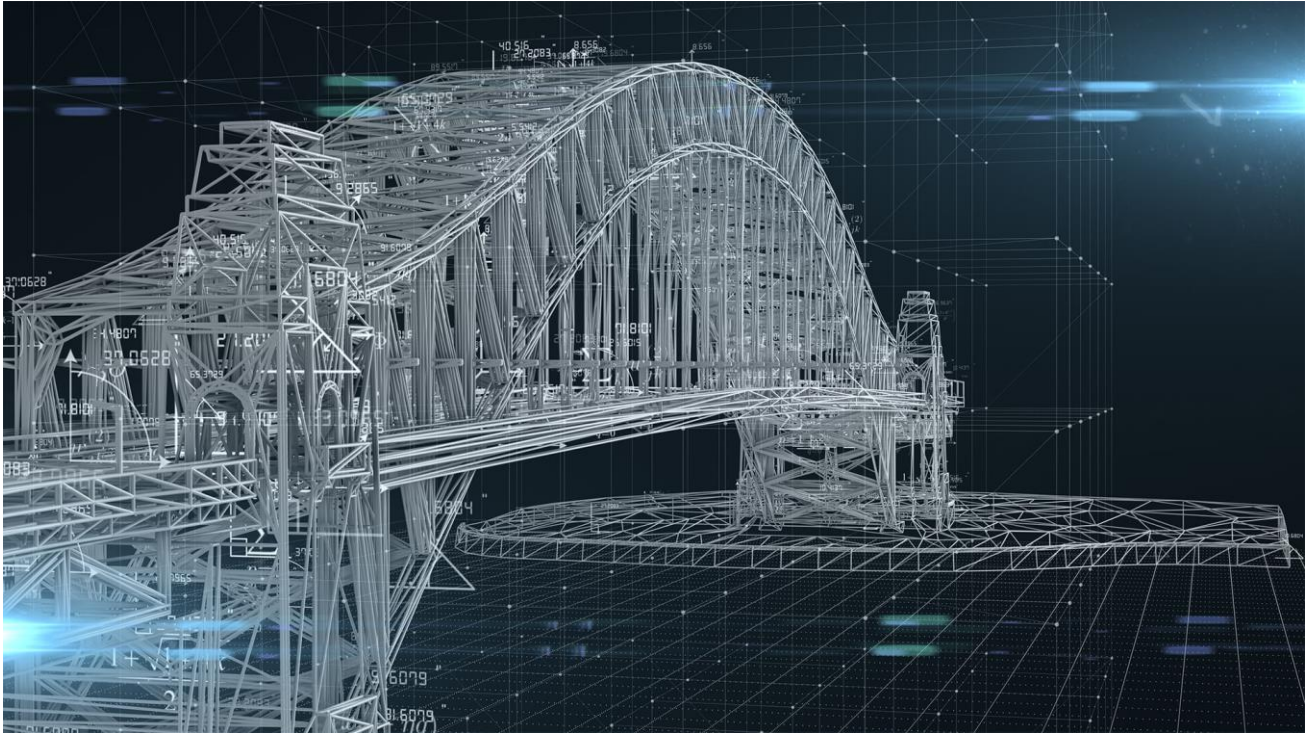


2 Road Construction and Maintenance

- **Highway and Road Development:** Topography survey, design, and construction of highways, urban roads, and rural access roads, designed for long-term use.
- **Road Maintenance and Rehabilitation:** Repair, resurfacing, re-adaptation, protection and preservation of existing road networks to maintain functionality.
- **Bridge and Tunnel Construction:** Topography survey, design, construction and development of connecting infrastructure like bridges, tunnels, and overpasses for complex terrains.



- **Paving and Asphalt Services:** Application of asphalt, concrete, and other paving materials for road surfaces and pavements.



3 Infrastructure and Utilities Development

- **Utility Installation:** Underground mapping, design, and installation of underground utilities such as power, water, gas, and telecommunications lines.
- **Site Preparation and Land Grading:** Clearing, levelling, and preparing land for construction, including erosion control measures.
- **Urban Infrastructure:** Survey, design, and construction of public infrastructure like sidewalks, parking lots, street lighting, and stormwater drainage systems.

- **Industrial Facility Construction:** Building warehouses, factories, and other industrial spaces tailored to operational needs.



4 Project Management and Consulting

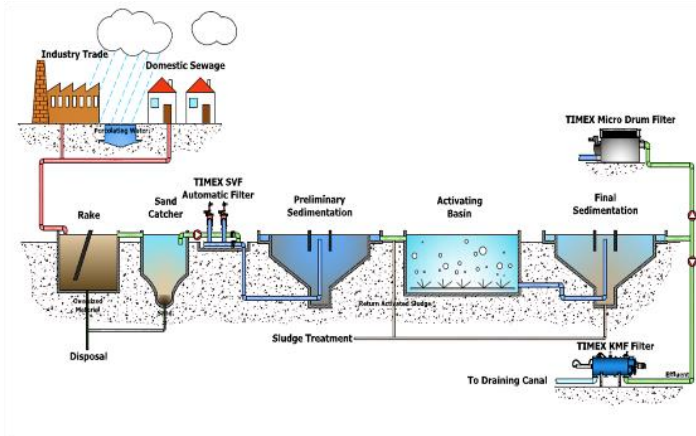
- **Construction Project Management:** Full project lifecycle management, from planning and budgeting to execution and quality control.
- **Feasibility Studies and Site Assessments:** Evaluating site conditions and project feasibility, including environmental impact assessments and risk assessments.
- **Engineering Consulting:** Expert advisory services for complex engineering challenges, regulatory compliance, and best practices.
- **Cost Estimation and Scheduling:** Providing accurate budgeting, resource planning, and timelines for efficient project execution.



5 Environmental and Sustainability Services

- **Environmental and Social Impact Assessments (ESIA):** Conducting ESIA's to minimize the ecological and social footprint of projects.
- **Sustainable Building Practices:** Incorporating eco-friendly materials, energy-efficient designs, and low-impact construction techniques.
- **Water Conservation Systems:** Designing and constructing systems that conserve water resources, such as rainwater harvesting and recycling systems.

- **Reclamation and Rehabilitation:** Restoring and re-adapting disturbed land post-construction, especially in environmentally sensitive areas.



6 Agricultural Infrastructure

- **Irrigation Systems:** To support agricultural productivity, design and construction of canals, drip irrigation, and sprinklers.
- **Farm Road Construction:** Developing durable access roads to link farms with market centers.
- **Storage and Processing Facilities:** Construction of agricultural warehouses, silos, and processing facilities to optimize the supply chain.
- **Soil and Water Conservation:** Building terraces, water channels, and drainage systems to prevent soil erosion and conserve water.



7 Industrial and Technological Integration

- **Building Information Modeling (BIM):** Providing 3D models for visualization and collaboration on construction projects.
- **Advanced Surveying and Mapping:** Using Geographic Information Systems (GIS/QGIS) and drones for precise land surveying and mapping.
- **Quality Management Systems (ISO Certification and National Standards):** Implementing quality standards like ISO 9001 and national standards to ensure high-quality construction processes.
- **Energy Infrastructure:** Construction and installation of renewable energy structures, such as solar panel arrays and wind turbines.



8 Health and Safety Services

- **Safety Assessments and Training:** Ensuring safe practices on construction sites, surrounding communities, ecosystems, and compliance with safety regulations.
- **Occupational Health Services:** Providing health services and training to protect workers and mitigate on-site risks.
- **Emergency and Disaster Response Infrastructure:** Construction of evacuation routes, shelters, and robust infrastructure for disaster preparedness.

Daira Sabz is fully committed to providing all employees with remarkable training to supplement their skill set and ensure that they are able to perform and complete all their activities safely.

9 Mechanical, Electrical, and Plumbing (MEP) Services

At Daira Sabz, we provide comprehensive MEP services that form the backbone of modern infrastructure, ensuring functionality, efficiency, and sustainability in every project. Our approach integrates innovative technologies and best practices to deliver tailored solutions that meet the highest industry standards.

- **Advanced Mechanical Systems**
We specialize in designing and installing state-of-the-art mechanical systems to ensure optimal performance and energy efficiency, including:
 - HVAC (Heating, Ventilation, and Air Conditioning) systems designed to maintain comfortable, controlled environments in buildings.
 - Energy-efficient systems using advanced heat recovery, insulation technologies, and smart climate control.
 - Custom solutions for industrial applications, tailored to meet unique operational requirements.



- **Innovative Electrical Installations**

Our electrical engineering expertise ensures reliable and sustainable power systems for diverse projects:

- Comprehensive electrical systems, including grid connections, backup power solutions, and uninterruptible power supply (UPS) installations.
- Renewable energy integration, such as solar panel arrays, wind turbines, and hybrid systems, to support green energy initiatives.
- Advanced lighting designs, incorporating LED and adaptive smart lighting systems to enhance efficiency and reduce energy costs.



- **Integrated Plumbing Solutions**

Daira Sabz delivers high-performance plumbing systems that prioritize safety, sustainability, and reliability:

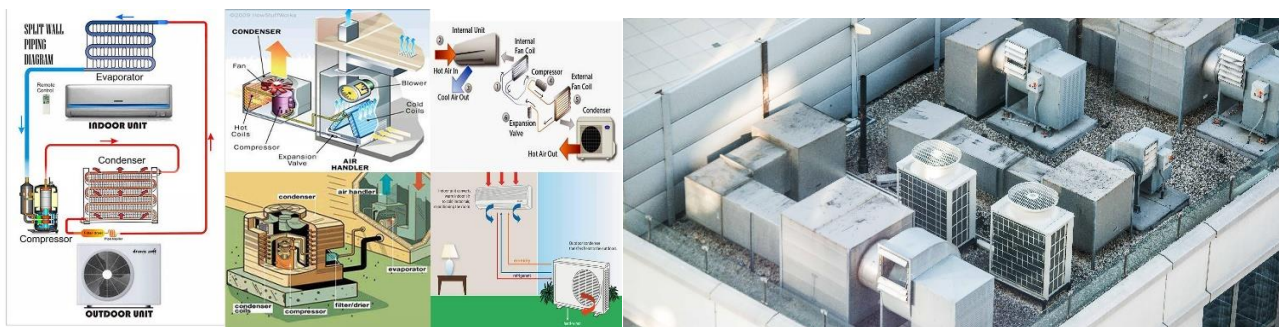
- Water supply systems designed for consistent, efficient delivery to residential, commercial, and industrial properties.
- Wastewater and drainage systems engineered to manage flow efficiently and minimize environmental impact.
- Fire protection systems, including sprinklers, fire pumps, and hydrants, designed to meet international safety standards.

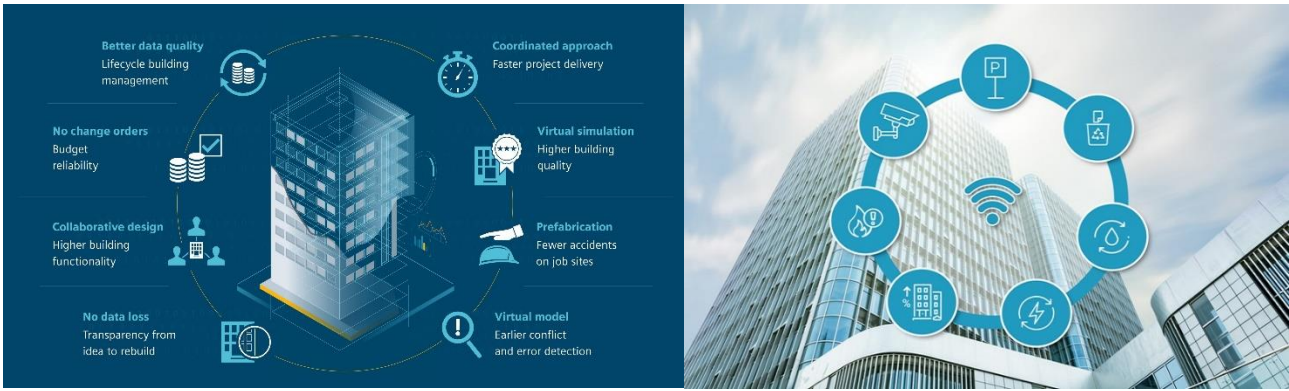


- **Smart MEP Solutions**

Our IoT-driven solutions transform traditional MEP systems into intelligent, interconnected networks:

- Real-time monitoring and automated controls for HVAC, lighting, and water systems to enhance efficiency and reduce operational costs.
- Predictive maintenance powered by IoT sensors to ensure uninterrupted performance and minimize downtime.
- Integration of building management systems (BMS) for centralized control and enhanced operational insight.

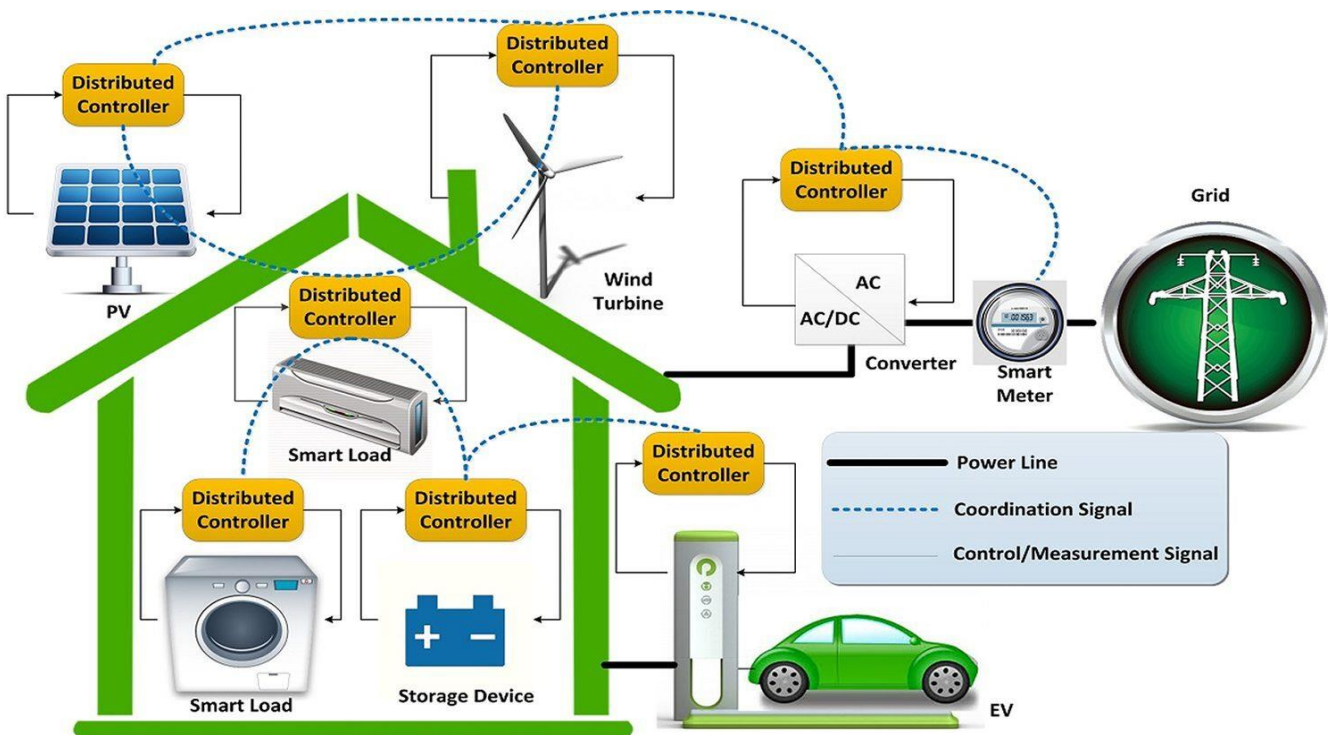




10 Research and Development (R&D):

Research and Development is a critical component of Daira Sabz's commitment to innovation and excellence. Our R&D initiatives focus on:

- **Innovative Solutions:** Developing cutting-edge methodologies and technologies to enhance construction practices and project outcomes.
- **Sustainability:** Exploring eco-friendly materials and energy-efficient systems to promote environmental responsibility.
- **Quality Improvement:** Implementing advanced quality control measures to ensure superior standards in all projects.

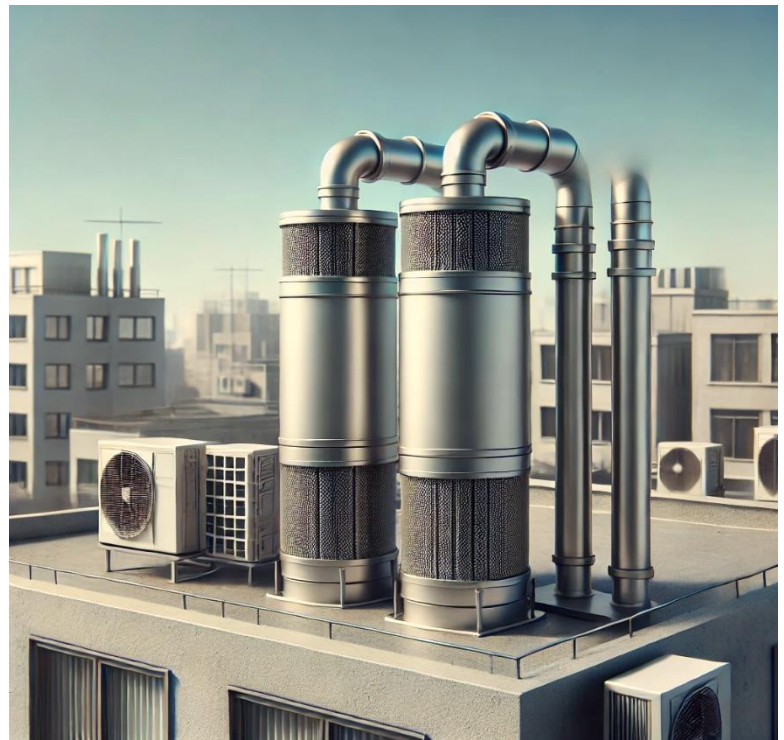




Past Projects

Daira Sabz has developed an innovative air filtration system aimed at reducing emissions from residential heating systems in Kabul, Afghanistan. This system is particularly beneficial for households that rely on coal for heating, as it effectively mitigates air pollution. Notably, the filtration system is seven times more cost-effective than existing commercial alternatives, making it an accessible solution for many residents.

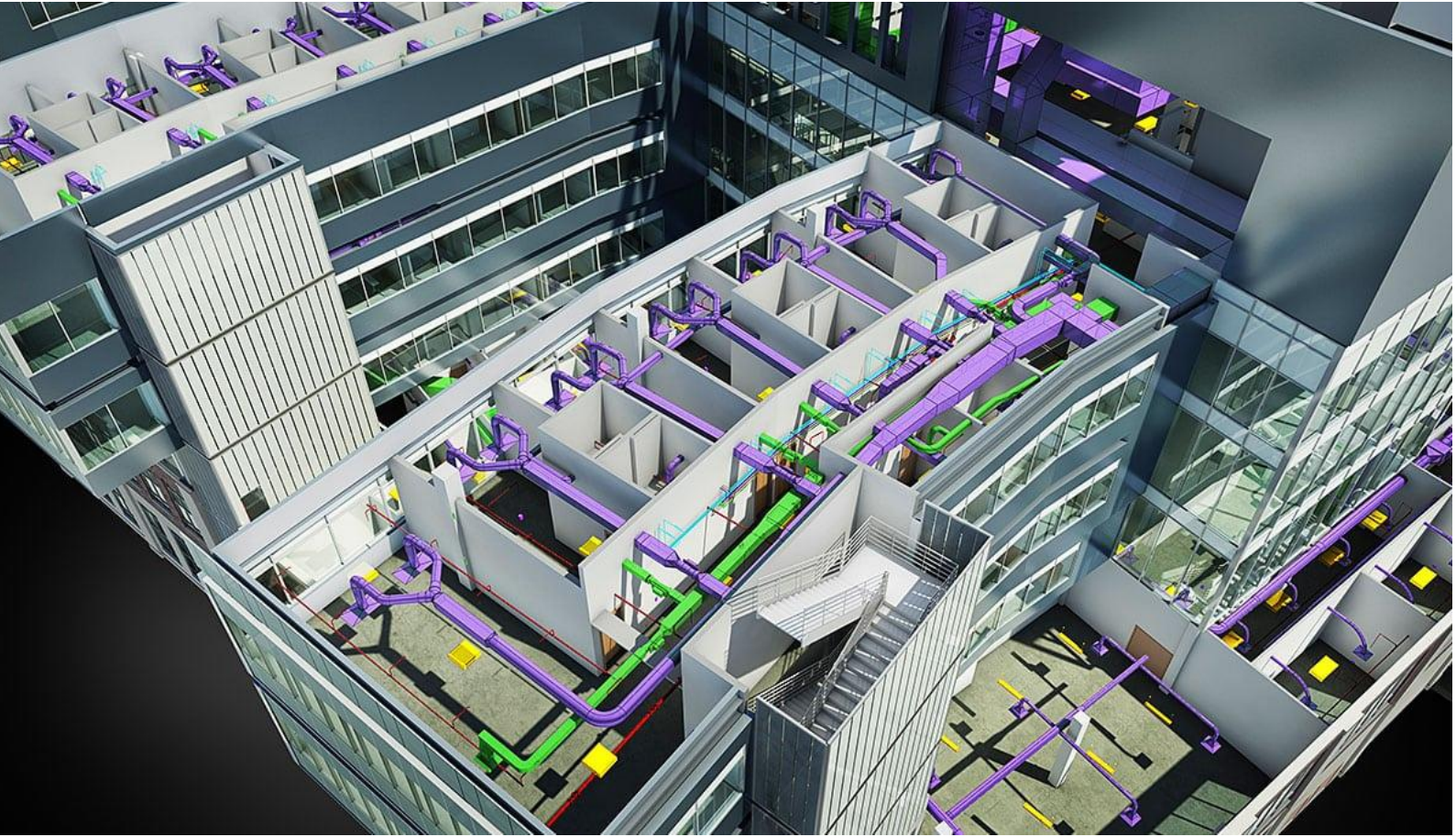
In recognition of this achievement, Daira Sabz was awarded the third prize in the International Centre for Integrated Mountain Development (ICIMOD)'s Clean Air Prize 2023. This accolade highlights the company's commitment to developing affordable and effective solutions to combat air pollution in the Hindu Kush Himalaya region.



The filtration system has been piloted in seven large apartment buildings in Kabul, directly benefiting over 780 residents by improving air quality and reducing health risks associated with coal combustion.

ISO Certification

Soon will be added



Ready to transform your vision into reality with sustainable, high-quality infrastructure? Partner with Daira Sabz to bring your project to life, backed by expertise, innovation, and a commitment to Afghanistan's future. Contact us today to discuss how we can support your goals with customized, reliable, and impactful solutions. Together, let's build a resilient and connected Afghanistan.

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