



HERITAGE WORK



DBS ENGINEERS PVT. LTD.

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DBS ENGINEERS - INTRODUCTION

At DBS Engineers, we believe that every building tells a story, and for over number of years, we have been privileged to be the storytellers of countless commercial, residential, and industrial projects. As a premier construction company based in Lucknow, our mission is to bring architectural visions to life with precision, integrity, and a commitment to excellence.

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OUR BEGINNINGS

Founded in 2010, DBS Engineers Pvt. Ltd started as a small, family-owned business. Over the decades, we have grown into a trusted name in the industry, known for our dedication to quality and our unwavering client focus. Our journey has been one of continuous learning, innovation, and adaptation to the latest construction techniques and technologies.

OUR TEAM

Our greatest asset is our team of professionals. From seasoned architects and engineers to skilled laborers and project managers, each member of the DBS Engineers Pvt. Ltd family brings expertise, passion, and dedication to their work. We foster a collaborative environment that encourages creativity and promotes professional growth.

OUR PROMISE

At DBS Engineers Pvt. Ltd, we don't just build structures; we build relationships. Our promise is to deliver projects that reflect the unique aspirations and needs of our clients. Whether it's a dream home, a bustling commercial hub, or a state-of-the-art industrial facility, we are here to bring your vision to life with precision and care.

A stylized illustration of various historical monuments from India, including the Taj Mahal, the Gateway of India, and the Leaning Tower of Pisa, rendered in a light, sketchy style.

HISTORICAL MONUMENTS OF INDIA



Our Expertise

Our Expertise

Heritage work typically involves the identification, preservation, conservation, and promotion of historical sites, artifacts, and intangible cultural heritage.

Archaeologists – They excavate and study ancient sites and artifacts to understand past human cultures.

Historians – They research and analyze historical events, documents, and records to inform the understanding of heritage sites.

Conservation Specialists – They are skilled in the science and techniques required to preserve and restore artifacts, buildings, and other physical objects.

Museum Curators – They manage collections of artifacts, developing exhibitions and educational programs to engage the public.

Urban Planners and Architects – They work on the integration of historical sites within modern urban environments, balancing preservation with contemporary needs.

Cultural Resource Managers – They develop policies and strategies for the protection and promotion of cultural heritage.

Thank you for considering DBS Engineers Pvt. Ltd. We are excited to be your partner in creating extraordinary spaces that inspire and endure.

Our Values

Heritage values encapsulate the significance of cultural and natural heritage, contributing to our understanding of identity, history, and community. Here's a breakdown of key heritage values.

Quality: We are committed to delivering superior craftsmanship and using the finest materials.

Integrity: Honesty and transparency are the cornerstones of our business relationships.

Innovation: We embrace new technologies and innovative building techniques to stay ahead of industry trends.

Sustainability: We prioritize eco-friendly practices and materials to minimize our environmental footprint.

Client Satisfaction: Our clients are at the heart of everything we do. We strive to exceed their expectations at every stage of the project.

Our Vision for the Future

As we look to the future, we remain committed to pushing the boundaries of what's possible in construction. We envision a world where every project, big or small, is a testament to our dedication to excellence and our passion for building better communities.

Conducting a Survey of a Monument



Ancient Brick Temple at Sirhar Fathepur

Conducting a survey of a monument is a detailed process that involves documenting and analyzing the physical and historical aspects of the structure. Here's a step-by-step guide to help you understand and perform this task effectively.

Preliminary Research	Before heading to the site, gather as much information as possible about the monument. This includes its history, cultural significance, previous studies, and any existing documentation.
Site Visit Preparation	<p>Equip yourself with the necessary tools:</p> <p>Measuring Instruments: Total stations, theodolites, laser distance meters, measuring tapes.</p> <p>Photographic Equipment: Cameras, drones for aerial views, tripods.</p> <p>Documentation Supplies: Notebooks, sketch pads, pens, tablets or laptops for digital note-taking.</p> <p>Personal Safety Gear: Helmets, gloves, and other protective gear.</p>
On-site Survey and Data Collection	<p>When you arrive at the monument site:</p> <p>Photograph the Monument: Capture the monument from multiple angles and its surroundings to provide a comprehensive visual record.</p> <p>Take Measurements: Measure lengths, widths, heights, and distances between different parts of the structure. Use the appropriate measuring instruments for precise data.</p> <p>Detailed Notes: Document any notable features like inscriptions, carvings, damages, or restorations. Note the materials used and their current condition.</p>
Mapping and Sketching	Create detailed sketches or maps of the monument. This could be done by hand or digitally using CAD (Computer-Aided Design) software. A precise map will help in visualizing the monument's layout and structure.
Environmental Assessment	Evaluate the surrounding environment. This includes analyzing factors like vegetation, topographical features, and potential sources of damage (e.g., pollution, water accumulation, human activity).
Data Analysis	<p>Analyze the collected data to identify:</p> <ul style="list-style-type: none"> - Structural Integrity: Look for signs of wear, damage, and structural weaknesses. - Historical Changes: Compare current conditions with historical records to understand transformations over time. - Conservation Needs: Assess the need for preservation, restoration, or conservation efforts.
Reporting	<p>Compile all findings into a comprehensive report that includes:</p> <ul style="list-style-type: none"> - Detailed maps and sketches - Measurement data - Photographs - Analysis and observations - Recommendations for conservation
Stakeholder Engagement	Engage with local authorities, historians, architects, and the community. Share your findings and collaborate to develop actionable plans for the monument's upkeep and preservation.
Final Thoughts	Surveying a monument is a meticulous process that combines historical research, precise measurement, and careful documentation. It serves as a fundamental step towards preserving our cultural heritage and ensuring these historical treasures are passed on to future generations.

SURKHI WORK

Surkhi, also known as brick dust, is a material obtained by crushing and grinding burnt bricks or clay balls. It serves as an essential component in traditional construction and plays a significant role in strengthening and enhancing the properties of mortar and concrete. Here's an overview of what entails working in a surkhi manufacturing plant.



RAW MATERIAL SELECTION

Burnt Bricks/Clay: Surkhi is made from burnt bricks, brickbats, or burnt clay.

It is important to use bricks that have been thoroughly burnt to achieve the desired properties. Under-burnt or over-burnt bricks should be avoided as they can affect the quality. Clay Balls and Lime: Occasionally, small clay balls mixed with quick lime are burnt to improve quality.





GRINDING PROCESS

- **Preparing the Bricks:** The bricks or clay balls are first broken down into smaller pieces.
- **Grinding:** These pieces are then ground into a fine powder, usually using a mortar mill or similar grinding machinery. The fineness of the powder is crucial as it influences the hydraulic properties of the surkhi.



QUALITY CONTROL

- **Particle Size Distribution:** The ground surkhi must be fine enough to pass through an IS No. 9 sieve, with a residue of not more than 10% by weight.
- **Mixing with Lime:** Surkhi is often mixed with lime to enhance its properties. This mixture needs to be well blended to ensure uniformity.



APPLICATIONS

- **Concrete and Mortar:** Surkhi is added to lime or Portland cement to increase compressive strength, durability, and hydraulic properties. It is especially useful in regions where sand is scarce.
- **Waterproofing:** Used in waterproofing treatments, surkhi helps in making structures more resistant to water seepage.
- **Plastering:** Surkhi can be used in mortar for plastering, although it isn't suitable for external plaster exposed to weathering conditions.

SUSTAINABILITY AND ECONOMIC ADVANTAGES

- **Cost-Effective:** Utilizing locally sourced burnt bricks for surkhi production is more economical compared to other materials.
- **Environment-Friendly:** By recycling burnt bricks, surkhi production promotes sustainable construction practices.



Before Work

After Work

FINAL THOUGHTS

Working in a surkhi plant involves processes that focus on quality control and precise grinding to ensure the material meets the required standards. Its versatility and affordability make surkhi a valuable addition in various construction applications, particularly in traditional and heritage structures.



The Essence of Heritage Building Conservation

Heritage buildings are crucial pillars of cultural history and architecture. These structures reveal the stories and lifestyles of previous generations, and preserving them offers invaluable cultural, educational, and aesthetic benefits. The goal of heritage conservation is to maintain and restore these buildings, making sure that their historical value and architectural integrity are preserved for future generations.

Key Components:

- **Research and Documentation**:** Thoroughly investigating the building's history, architecture, and previous restoration work.
- **Condition Assessment**:** Evaluating the current state of the building to identify issues and prioritize repairs.
- **Material Analysis**:** Understanding the materials used in the original construction allows for accurate restoration and compatibility with modern techniques.
- **Restoration Planning**:** Creating a detailed plan that outlines all the necessary restoration steps, including budgeting and timelines.
- **Conservation Practices**:** Implementing the plan using techniques that preserve as much of the original structure and materials as possible.
- **Sustainability**:** Ensuring that the restoration methods and materials used are sustainable and environmentally friendly.
- **Community Engagement**:** Involving the local community and stakeholders to foster a sense of ownership and support for the conservation project.

Challenges and Opportunities

- **Technical Challenges:** Dealing with structural damage, material decay, and previous improper repairs.
- **Funding:** Securing financial resources for large-scale restoration projects.
- **Balancing Modernization:** Integrating modern amenities and safety standards while preserving the historical authenticity.
- **Legal Compliance:** Adhering to heritage laws and regulations specific to the region.

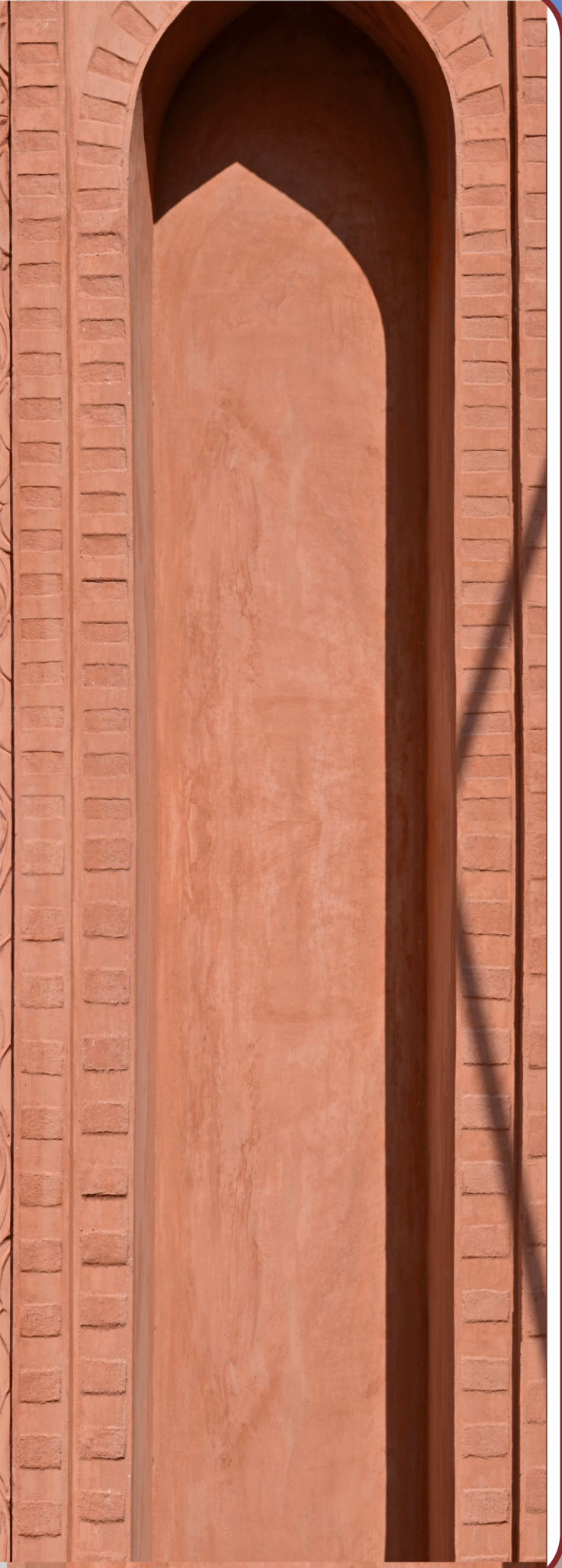
Archaeological Survey of India, Circle-	PROJECT NAME	Work Order Financial Year
Lucknow	SR (Plan) to Total Station survey and fixing stone pillars around the site Mahet	2015-2016
Lucknow	SR (Plan) to Restoration of ancient fortification wall around 7th gate at Kalinjer fort Banda	2016-2017
Lucknow	Execution of work under MW (Museum) to providing verified tiles flooring in first floor and remaining area of ground floor at kapilvastu museum Siddharth Nagar-reg.	2017-2018
Lucknow	MW (C) to structural conservation and development of tourist facilities at sahat (Jetwan) sravasti regarding	2017-2018
Lucknow	MW (C) to structural conservation and development of Public facilities at Excavated site Piprahwa	2018-2019
Lucknow	MW (C) to structural conservation and development of Public facilities at Kalinjer fort Banda	2018-2019
Lucknow	MW (C) to structural conservation and development of Public facilities at Jhansi Fort, Jhansi	2018-2019
Lucknow	MR (CT and P) To Overall Structural Component (Except Temple-1) of Ancient site (Jetwan) sravasti	2018-2019
Lucknow	MW (C) to annual Maintenance and unkeep of Centrally protected monuments under the jurisdiction of Sub - Circle Sravasti	2019-2020
Lucknow	MW (C) to annual Maintenance and unkeep of Centrally protected monuments under the jurisdiction of Sub - Circle Mahoba	2019-2020
Lucknow	MW (C) to annual Maintenance and unkeep of Centrally protected monuments under the jurisdiction of Sub - Circle Kanpur	2019-2020
Jhansi	MW (C) to annual Maintenance and unkeep of Centrally protected monuments under the jurisdiction of Sub - Circle Lalitpur	2019-2020
Jhansi	MW (C) to annual Maintenance and unkeep of Centrally protected monuments under the jurisdiction of Sub - Circle Jhansi	2019-2020
Jhansi	MW (C) to structural conservation of Panch Mahal adjoining building in the Monument complex at Jhansi Fort, Jhansi	2019-2020
Jhansi	MW (C) to structural conservation of Panch Mahal adjoining building in the Monument complex at Jhansi Fort, Jhansi	2019-2020
Varanasi	Providing Labour to engage by outsourcing under GFR Sarnath Museum, ASI, Sarnath Circle Varanasi	2020-2021
Varanasi	Providing Labour to engage by outsourcing under GFR for VEM, Man Mahal, Varanasi, ASI Sarnath Circle Varanasi	2020-2021
Lucknow	MW (C) to structural repair of Kos Minar at Gour, Kanpur	2020-2021
Lucknow	MW (C) to annual Maintenance of General wali Kothi Lucknow	2020-2021
Lucknow	MW (C) to annual Maintenance and unkeep of Centrally protected monuments under the jurisdiction of Sub - Circle Lucknow-II	2021-2022
Lucknow	MW (C) to annual Maintenance and unkeep of Centrally protected monuments under the jurisdiction of Sub - Circle Kanpur	2021-2022
Lucknow	MW (C) to annual Maintenance and unkeep of Centrally protected monuments under the jurisdiction of Sub - Circle Kannauj	2021-2022
Lucknow	MW (C) to Annual Maintenance and upkeep of Garden around Extensive Area, Mahet, Sravasti	2022-2023
Agra	Work Repairs to Outer Delhi Gate , Agra Fort , Agra	2022-2023
Lucknow	MW (C) to Providing Wooden Barricade around Main stupa at Piprahwa , Siddhrath Nagar	2022-2023
Lucknow	MW (C) to Structural repair of Two Ancient Brick temple at Sirhar Fathepur	2022-2023
Lucknow	MW (C) to annual Maintenance of Gulabbari, Faizabad	2022-2023
Agra	Man Power as Computer Operator for Scanning Tickets, Preparing Hindi/English Letters, Prepare data of entry tickets on daily basis & Taking Photographs) Taj Mahal, Agra	2022-2023
Lucknow	Ms Grill and Handrails at the Masque and Tomb of Makhdoom Jahania , Kannauj	2022-2023
Lucknow	MW (C) to Providing brick pathway for New Toilet Block at Sahet Sravasti	2022-2023
Lucknow	MW (C) to Comprehensive Conservation Works of Excavated site, Mahet Sravasti	2022-2023
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Conservation / repair of Waterbody at Tank Near the Tomb of Sandal Shah , Kanpur Nagar	2022-2023
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Annual Maintenance and upkeep of Garden at Residency, Lucknow under jurisdiction of sub-circle	2022-2023
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Providing pathway adjacent Excavated structure , piprahwa, Siddhrath Nagar	2023-2024
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Annual Maintenance and upkeep of Garden at Kapilvastu, Siddharth Nagar	2023-2024
Lucknow	Minor Civil and Electric (Conservation of Ancient Monuments) to Conservation/ Repair of Waterbody at ancient at ancient brick temple Nimbiakhera Kanpur Nagar	2023-2024
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Structural repair of excavated site and repair of undulated pathway ,Ganwariya, Siddharth Nagar	2023-2024
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Structural Repair and Providing Wall with M.S. Grill at Tola Salargarh Siddhrath Nagar	2023-2024

Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Restoration of remaining of excavated structure Piprahwa, Siddharth Nagar	2023-2024
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Repair of Boundary wall and providing MS Grill at Ancient Site Ganwariya, Siddharth Nagar	2023-2024
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Structural Conservation of Begum Kothi at Residency, Lucknow	2023-2024
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Structural Conservation of Begum Kothi at Residency, Lucknow	2023-2024
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Repair and Conservation at Excavated drain at Residency, Lucknow.	2023-2024
Lucknow	OC (EE) for Archaeological Excavation Work at Kanhaiya Baba Ka Sthan, village Dharmauli at Mahrajganj	2023-2024
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Providing and fixing of wooden beam and Conservation of cells of Kazmain Building Lucknow at Lucknow	2023-2024
Lucknow	Minor civil and electric works (conservation of ancient monuments) to Providing and fixing of wooden beam and conservation of cells of Kazmain Building	2023-2024
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Annual Maintenance of Ancient Brick Temple, Bhitargaon and other centrally protected monuments under jurisdiction of sub-circle Kanpur, Kanpur	2024-2025
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Annual Maintenance of Katchery Cemetery and other centrally protected monuments under jurisdiction of sub-circle Kanpur, Kanpur	2024-2025
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Annual Maintenance of Nawab Sadar Jahan Pihani and other centrally protected monuments under jurisdiction of sub-circle Lucknow-II, Lucknow	2024-2025
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Annual Maintenance of Old Palace Dilkusha and other centrally protected monuments under jurisdiction of sub-circle Lucknow-II, Lucknow	2024-2025
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Annual Maintenance of Residency Buildings and other centrally protected monuments under jurisdiction of sub-circle Lucknow-II, Lucknow	2024-2025
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Annual Maintenance and upkeep of Garden at Kapilvastu, Siddharth Nagar	2024-2025
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monuments) to Annual Maintenance and upkeep of Garden at Sahet, Sravasti	2024-2025
Meerut	Manpower supply Sub Circle Hastinapur, Meerut	2024-2025
Meerut	Manpower supply Sub Circle Bijnor, Meerut	2024-2025
Lucknow	Minor Civil and Electric Works (Conservation of Ancient Monument) To Annual Maintenance of Kaz-Main buildings at Lucknow.	2024-2025

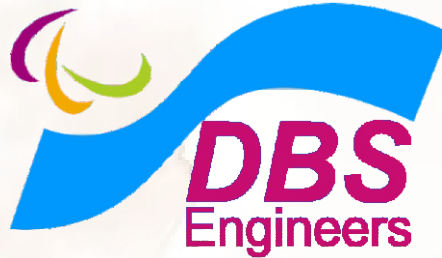


Ancient Brick Temple at Sirhar Fathepur









DBS ENGINEERS PVT. LTD.

Civil/Electrical Construction & Maintenance

OUR ACTIVITIES

- **Heritage Building Maintenance**
- **Sub Station Operation & Maintenance**
- **Civil/Electrical Construction Work**
- **Topographical & Contour Survey**
- **Transmission Line Survey**
- **Road & Drainage Survey**
- **Rail Route & Final Location Survey**
- **Hydrological Survey**
- **GIS & Remote Sensing**
- **Geo-Technical Investigation**

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