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# **Work Specification for the Construction of a Four-Storey Building at V. Keyodhoo School**

## **Project Overview**

The construction of a four-storey building at V. Keyodhoo School is a significant endeavor aimed at enhancing the educational infrastructure in the region. This work specification document outlines the comprehensive requirements and specifications for the civil construction work involved in this project.

## **Scope of Work**

The scope of work encompasses various phases, including site preparation, foundation and substructure construction, superstructure erection, interior and exterior finishing, installation of utilities, safety measures, site cleanup, documentation, inspections, and compliance with all relevant regulations.

## **Project Management and Logistics**

A dedicated project manager and team shall be appointed to oversee the project from initiation to completion. Their responsibilities will include:

* Coordination with contractors and subcontractors
* Procurement of materials and labor
* Scheduling and project timeline management
* Quality control and assurance
* Compliance monitoring
* Safety oversight
* Communication with stakeholders

## **Temporary Works Connections**

Temporary works, such as scaffolding, shoring, and formwork, shall be installed as required to facilitate safe and efficient construction activities. These temporary structures shall be designed, erected, and regularly inspected to ensure their stability and safety.

## **Site Conditions**

The site conditions have been assessed, revealing that the groundwater level is below 300mm from the natural ground level. This information shall inform dewatering strategies to maintain a dry and safe work environment throughout the project.

## **Storage Facilities**

A designated storage area should be allocated off-site for the safe storage of construction materials and equipment. Strict organizational and security measures will be implemented to prevent theft and damage to materials shall be arranged by contractor own expenses.

## **Demolition**

Existing structures on the construction site shall be safely demolished and removed. This process will adhere to all safety regulations and will include the proper disposal of demolition debris in compliance with local environmental guidelines.

## **Cleaning Upon Completion**

Upon project completion, the construction site shall undergo a thorough cleaning and clearing process. This includes the removal of all temporary works and structures and additional buildings highlighted on the site plan, leaving the site in a clean, safe, and presentable condition.

## **Detailed Construction Phases**

The construction will progress through the following phases:

### **1. Site Preparation and Demolition**

* Clearing the site of existing structures and debris.
* Proper disposal of demolition debris.
* Site grading for drainage.

### **2. Foundation and Substructure**

* Excavation to specified depths.
* Construction of foundations, footings, and piers.
* Application of waterproofing to foundation walls.

### **3. Superstructure**

* Structural framing, columns, beams, and slabs as per design.
* Masonry work as needed.

### **4. Roofing**

* Construction of the roof structure and installation of roofing materials.
* Roof drainage system installation.

### **5. Exterior Work**

* Construction of exterior walls with approved materials.
* Installation of windows and doors.

### **6. Interior Work**

* Flooring with specified materials.
* Installation of ceilings.
* Plumbing fixtures, sinks, and drainage systems.
* Electrical wiring, outlets, switches, lighting fixtures.
* Mechanical installations, including fans, air conditioning, and water dispensers.

### **7. Staircase**

* Construction of staircases between floors for safe access.

### **8. Toilets**

* Installation of toilet fixtures, accessories, and sanitary fittings.

### **9. Railing**

* Installation of handrails and guardrails on staircases and balconies for safety.

### **10. Fire Fighting Equipment**

* Installation of fire extinguishers, smoke detectors, and other firefighting equipment as required by safety codes.

### **11. Science Laboratory**

* Equipment and infrastructure setup as specified on floor layout.

### **12. Network and Electrical Infrastructure**

* Installation of network cabling and electrical wiring throughout the building and computer rooms.

### **13. Finishing Work**

* Painting of interior and exterior surfaces.
* Facade finishing per architectural plans.

### **14. Final Checks and Inspections**

* Quality checks at each construction stage.
* Regular safety inspections.

### **15. Cleanup and Site Restoration**

* Removal of construction debris.
* Clearing of temporary works and structures.

### **16. Documentation and Approvals**

* Maintenance of detailed records of construction activities.
* Coordination with local authorities for inspections and approvals.

### **17. Compliance**

* Ensuring compliance with local building codes and regulations throughout the project.

## **Conclusion**

This comprehensive work specification document serves as a guide for the successful execution of the construction of a four-storey building at V. Keyodhoo School. It emphasizes the importance of coordination, safety, compliance, and quality in every aspect of the project. The collaborative effort of all stakeholders involved, including contractors, engineers, and project managers, will be essential to achieve the project's objectives, providing a valuable educational facility for the V. Keyodhoo community.