



# **WATER TANK INSPECTION & REHABILITATION SERVICES**

# About Phans4 :

Phans4 consulting is an inspection and testing agency employs qualified personnel who specialize in inspecting and testing civil equipment, Our experts are well qualified in relevant fields with international approved certifications to perform tests and inspections. They undergo continuous training to stay updated on the latest inspection techniques, testing methods, and regulatory requirements, Familiarity with Regulations and Codes. They all have experience working in relevant industries such as manufacturing, oil and gas, petrochemicals, power generation, or any other field involving civil equipment.



# WATER TANK INSPECTION & REHABILITATION SERVICES

Phans4 engineering consultancy services refer to the professional services provided by civil engineering firms or consultants. These services typically include planning, design, construction management, and project coordination for various civil engineering projects. Some specific areas where civil engineering consultancy services are often required include:

## Our Services:

### STRUCTURAL DESIGN:

Consultancy services for structural design involve the analysis and design of buildings, bridges, dams, and other structures to ensure their safety, stability, and durability.



### TRANSPORTATION ENGINEERING:

Civil engineering consultants provide services related to transportation infrastructure, including the design of roads, highways, airports, railways, and mass transit systems.

## **WATER RESOURCES ENGINEERING:**

Consultancy services in water resources engineering encompass the planning, design, and management of water supply systems, drainage systems, flood control measures, and wastewater treatment facilities.



## **GEOTECHNICAL ENGINEERING:**

Civil engineering consultants assess soil and rock properties to provide recommendations for foundation design, slope stability analysis, and mitigation of geological hazards

## **ENVIRONMENTAL ENGINEERING:**

Consultancy services in environmental engineering focus on the assessment and management of environmental impact associated with civil engineering projects, such as pollution control, waste management, and sustainable development practices.



## CONSTRUCTION MANAGEMENT:

Civil engineering consultants may also offer construction management services, including project planning, cost estimation, quality control, scheduling, and project coordination.



**By engaging Phans4 engineering consultancy services, clients can benefit from the expertise and technical knowledge of professionals in the field to ensure the successful execution of their projects.**



Phans4 consulting helps clients / contractors for Inspection and rehabilitation of RCC (Reinforced Concrete Cement) water tanks

### **VISUAL INSPECTION:**

Start by conducting a thorough visual inspection of the tank to identify any signs of damage or deterioration. Look for cracks, leaks, rust stains, efflorescence, spalling concrete, or any other signs of structural or functional issues.



### **WATER DRAINAGE:**

Drain the water from the tank to allow for a closer examination of the interior surfaces. Ensure proper safety measures and precautions are taken during the drainage process.

### **CLEANING:**

Clean the tank thoroughly by removing any debris, sediment, algae, or other contaminants present. Use appropriate cleaning agents and techniques to ensure the tank is sanitized and free from any unwanted substances.



### **STRUCTURAL ASSESSMENT:**

Assess the structural integrity of the tank by conducting a detailed inspection of the walls, base, roof, and reinforcements. Look for any signs of corrosion, reinforcement exposure, or concrete deterioration. Use non-destructive testing methods, such as ultrasound or rebound hammer, to assess the quality of the concrete.



### **REPAIR AND REHABILITATION:**

Based on the findings from the inspection, develop a plan for repairing and rehabilitating the tank. This may include repairing cracks, patching damaged areas, reinforcing weak sections, and strengthening the overall structure. The repairs could involve techniques such as grouting, epoxy injection, or carbon fiber wrapping.



### **WATER PROOFING:**

Ensure proper waterproofing of the tank to prevent future leakage or seepage issues. Apply an appropriate waterproofing membrane or coating to the interior and exterior surfaces of the tank.



### **PROTECTIVE COATING:**

Apply a protective coating, such as anti-corrosive paint or epoxy coating, to the interior surfaces of the tank to enhance durability and prolong the life of the structure.



### **TESTING AND QUALITY ASSURANCE:**

After completing the repairs and rehabilitation work, conduct necessary tests and inspections to ensure the tank meets the required standards and specifications. This may include tests for water tightness, structural stability, and water quality.

### **REGULAR MAINTENANCE:**

Implement a regular maintenance plan to monitor the condition of the tank and address any issues promptly. This may involve periodic inspections, cleaning, and small repairs to prevent major problems in the future.





It is important to note that the specific methods and techniques used for inspection and rehabilitation may vary depending on the size, location, and design of the RCC water tank. It is recommended to consult with qualified engineers or professionals with expertise in RCC structures for a detailed assessment and appropriate solutions.



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