

## **Method Statement for Installation of Chilled Water Pump**

### **CONTENTS**

- 1.0 Purpose
- 2.0 Scope
- 3.0 References
- 4.0 Responsibilities
- 5.0 Tools / Equipment
- 6.0 Materials
- 7.0 Handling & Storage
- 8.0 Procedures
- 9.0 Cleaning & Protection

#### **1.0 Purpose:**

The purpose of this Method Statement is to define the procedure step by step to implement the correct practices for installation of Chilled water pumps through the guidelines contained herein so as to ensure that the job execution complies with the requirements and services the intended function to satisfactory level.

#### **2.0 Scope:**

This method statement refers to various work procedures contained within project control documents, which explains and covers the Installation of Chilled Water pumps.

#### **3.0 References:**

- ✓ Project Quality Plan
- ✓ Project Specification
- ✓ Project Construction Schedule
- ✓ Project Safety Plan
- ✓ Approved Shop Drawings

#### **4.0 Responsibilities:**

- Chilled water pumps shall be installed under direct supervision of HVAC Supervisor while HVAC Site Engineer shall technically guide the Supervisor and monitor the work

progress. Engineer In-charge HVAC shall be responsible for overall work progress and quality of works.

- The Safety Officer (SO) is responsible for ensuring safe working place, field personnel are working with safe equipment / tools and all safety established procedures are followed.
- The QA/QC Engineer (EQA) is responsible for checking site works to ensure that agreed quality standards are maintained throughout the site execution QA/QC Engineer (EQA) shall also be responsible for getting the works inspected and approved by Consultants, along with Site Engineer.
- Site Engineer promptly attends to any snags issued by QA / QC regarding quality of work.
- The implementation of the procedures mentioned in method statement will be done by concerned Site Engineer / Site Supervisor.

#### **5.0 Tools / Equipment:**

- Portable Hand Tools.
- Portable Drill Machine / Grinding Machine
- Gas cutting set.
- Welding machine.
- Lifting and pulling equipment.
- Pipe rollers.

#### **6.0 Materials:**

- The chilled water pumps will be as per approved material submittal.

#### **7.0 Handling & Storage:**

- Upon arrival at site, the chilled water pumps shall be off-loaded carefully at site using necessary manpower and required equipment to ensure that no damage is caused to the materials.
- The chilled water pumps shall be preferably shifted directly to its respective floor immediately upon arrival at site.
- On the building floor, chilled water pumps will be stored in a clean, dry place and adequate covering by tarpaulin sheets will be done to protect the equipment from deposition of construction dust till it is finally shifted to its foundation.

- All the received chilled water pumps will be checked to ensure that the pumps complies with the approved material submittals in terms of their make, model, type, capacity etc.
- Any discrepancy or damages etc., will be notified and reported for further action.
- Material found not suitable for site use will be removed immediately from site and the same will be replaced by correct item.

**8.0 Procedure:**

- Approved pumps shall be used for installation purpose.
- Pumps shall be installed only after approval from Consultants.
- Inertia bases shall be proposed for each type of pumps depending upon requirement.
- The inertia bases shall be fabricated from MS channels and suitable MS rods a detailed drawing of proposed inertia bases along with their weights shall be submitted to Consultants for review separately, before fabrication of inertia bases.
- Upon approval of drawing, inertia bases shall be fabricated as detailed in approved drawings.
- The above fabricated inertia bases shall be offered for inspection.
- After inspection and approval of inertia bases concrete shall be poured into fabricated inertia bases.
- After concreting the inertia bases, they shall be positioned at respective places as detailed in approved A/C shop drawings. During positioning the inertia bases, approved vibration isolators.
- Chilled water pump-sets shall be installed on positioned inertia bases as shown in approved shop drawings ensuring proper level.
- Proper space for valves and piping for future maintenance shall be ensured before installing the pumps.
- Access for all parts of pumps shall be ensured for proper maintenance.
- The pumps shall be connected to the nearest floor drain to dissipate any leakage of water.
- It shall be ensured that the pumps & motors are properly installed with no pipe strain transmitted to the pump casing.
- Installation of pumps shall be offered for inspection.

- After inspection and approval of installation of pump sets, related piping and insulation shall be carried.

**9.0 Cleaning and Protection:**

- On completion of installation of chilled water pumps, good “House Keeping” practices will be followed to keep the area clean, tidy and clear of any tripping hazards.
- Usable, left-over or surplus material will either be returned to the stores or will be shifted to the location where similar type of materials can be used for successive installation. Debris and scrapped materials will be removed from the locations in project premises.
- The installed chilled water pumps shall be cleaned and covered properly by tarpaulin sheets to protect the equipment from deposition of construction dust.