M. NAWAZ AND COMPANY

YOUR TRUSTED PARTNER FOR COMPREHENSIVE PLUMBING AND PIPELINE SERVICES!

With years of experience in the plumbing industry, we have the knowledge and expertise to solve any plumbing challenge efficiently and effectively.





OUR BEST SERVICES :

- INSTALLATION/REPARING OF GAS & WATER PIPELINE.
- NEW INSTALLATION & REPAIRING OF OLD GEYSERS.
- WELDING AND FUSION JOINTING SERVICES FOR M.S ,MDPE & HDPE PIPES.
- CORE CUTTING.
- ROAD CUTTING.
- HORIZENTAL ROAD BORING.
- LAYING SERVICES FOR GAS ,WATER PIPELINE AND OPTICAL FIBER .
- EXCAVATION/DITCHING .
- INSTALLATION OF FIRE FIGHTING PIELINES IN BUILDINGS.

BOOK NOW

Contact Us
+92-0300-5599449
+92-0322-5060150

Office :
Office no 9,plot no 16-c,chaudary plaza sector i-9 markaz Islamabad

At M Nawaz and Company, we specialize in providing top-notch gas and water pipeline services for domestic, commercial, and industrial clients. Our expertise covers a wide range of services, ensuring your pipeline systems are safe, efficient, and up to best standard.

Our Services Include

- **Gas and Water Pipeline Plumbing**: New installations and maintenance for homes, offices, high-rise buildings, hospitals, and industries.
- **Geyser Services:** Supply of new geysers and repair services for old ones, keeping your water heating systems in perfect condition.
- **Welding and Fusion Jointing:** High-quality welding and fusion jointing services for secure and reliable gas and water pipeline connections.
- **Core Cutting and Road Cutting**: Precision core cutting and road cutting services for hassle-free installation of pipelines.
- **Horizontal Road Boring:** Efficient horizontal road boring services for the smooth passage of pipes and cables beneath roadways.
- **Laying Services**: Professional laying of water pipelines, gas pipelines, and fiber optics.
- **Excavation Services:** Comprehensive excavation services in both soft and hard soil, tailored to your project needs.
- **Fire-Fighting Piping:** Specialized fire-fighting piping solutions for all types of buildings, ensuring safety and compliance.

Contact Us
+92-0300-5599449
+92-0322-5060150

Office :
Office no 9,plot no 16-c,chaudary plaza sector i-9 markaz Islamabad

M. NAWAZ AND COMPANY

High Pressure Gas Pipeline Installation

M Nawaz and Company offers expert installation services for high-pressure gas pipelines across various sectors, including domestic, commercial, industrial, government offices, high-rise buildings, hospitals, colleges, and universities. Our team ensures safe, efficient, and reliable pipeline installations, adhering to industry standards and local regulations. With years of experience, we provide tailored solutions to meet the specific needs of each project, ensuring maximum safety and performance for all types of gas distribution systems.

High-Pressure Gas Piping Installation Process

Installing high-pressure gas piping requires precision and strict adherence to safety standards due to the risks associated with gas leaks and pressure containment. Below is the step-by-step process:

1. Preparation and Planning

Site Inspection: Evaluate the site to identify installation routes and potential hazards.

Material Selection: Choose appropriate materials (e.g., carbon steel, stainless steel) rated for high-pressure gas applications.

Compliance: Ensure designs comply with relevant standards (e.g., ASME B31.8 for gas transmission).

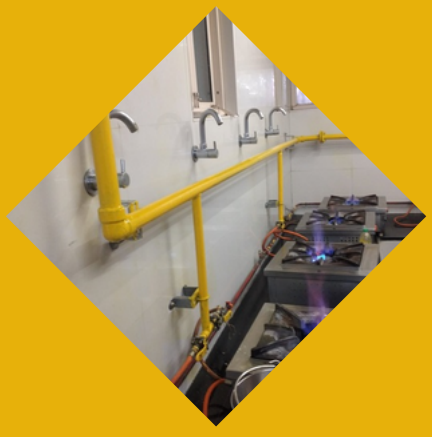
Permits and Approvals: Secure necessary permits from regulatory authorities.

2. Pipeline Fabrication and Pre-Installation

Pipe Cutting and Welding: Cut pipes to required lengths and weld them using approved welding techniques (e.g., TIG, MIG, or arc welding).

Fusion Jointing: Use fusion or mechanical joints for specific gas pipe types like PE pipes.

Inspection: Conduct non-destructive testing (NDT), such as X-ray or ultrasonic testing, to verify weld integrity.



M. NAWAZ AND COMPANY

High Pressure Gas Pipeline Installation

3. Installation

Trenching or Structural Support:

Excavate trenches for underground pipelines, maintaining specified depth and clearances.

For above-ground piping, install supports, hangers, and brackets to prevent stress.

Pipe Placement: Lay the pipes according to the approved layout, ensuring alignment and proper spacing.

Valve and Fitting Installation: Install valves, pressure regulators, and other fittings as per design specifications.

4. Pressure Testing and Commissioning

Leak Testing: Conduct a hydrostatic or pneumatic pressure test to check for leaks and ensure the piping can handle the operating pressure.

System Flushing: Purge the pipeline with inert gas (e.g., nitrogen) to remove contaminants and moisture.

Inspection and Certification:

Perform a final inspection and secure certifications from authorities.

5. Safety Measures and Handover

- Safety Equipment Installation: Install pressure relief valves, emergency shut-off systems, and monitoring devices.
- Training: Train the operating team on handling and maintaining the high-pressure gas system.

Handover: Provide documentation, including test reports, certifications, and maintenance manuals.

M. NAWAZ AND COMPANY

Central Heating System Installation

M Nawaz and Company specializes in the installation of central heating systems for a wide range of settings, including domestic, commercial, high-rise buildings, government offices, hospitals, universities, and restaurants. With a commitment to quality and efficiency, we provide tailored heating solutions to ensure optimal comfort and energy performance in diverse environments.

The process of a central heating system typically involves several key steps to ensure efficient and effective heating throughout a building. Here's an overview:

Heat Generation: The central heating system starts with a heat source, such as a boiler, furnace, or heat pump. These devices heat water or air to a desired temperature.

Boiler Systems: Heat water or steam to distribute heat through radiators or underfloor heating.

Furnace Systems: Heat air and distribute it via ducts and vents.

Heat Distribution: Once the heating medium (water or air) is heated, it is distributed throughout the building.
In a wet central heating system, hot water or steam is pumped through pipes to radiators or underfloor pipes.
In an air-based system, warm air is circulated through ducts using fans.

Heat Transfer: The heat is released into the living or working space.

Radiators: Hot water or steam moves through the radiator, releasing heat into the room.

M. NAWAZ AND COMPANY

Central Heating System Installation

Underfloor Heating: Warm water flows through pipes beneath the floor, heating the space from the ground up. Air Systems: Warm air from vents or grilles spreads throughout rooms.

Temperature Control: The system includes thermostats or controllers that regulate the temperature by adjusting the heating process. Once the room reaches the desired temperature, the thermostat signals the system to reduce or stop heating.

Return of Cooler Water/Air: In wet systems, the cooled water returns to the boiler or heat source via a return pipe, where it is reheated and sent back out. In air systems, the cooler air is re-circulated for reheating.

Safety and Efficiency Features: Modern central heating systems include safety valves, pressure gauges, and energy-saving components, ensuring that the system operates safely and efficiently.

Overall, a central heating system works by generating heat, distributing it, and maintaining temperature control across various parts of a building, providing comfort and warmth during colder months.

M. NAWAZ AND COMPANY

Fire Fighting System Installation

M Nawaz and Company specializes in the professional installation of fire fighting piping and systems. Our process begins with a thorough site survey and design tailored to meet local fire safety codes and your building's specific needs. We ensure the use of high-quality materials and precise installation of piping, sprinklers, hydrants, pumps, and control systems. Our team conducts rigorous testing, including leak and water flow tests, followed by system commissioning and certification. We also provide comprehensive training and ongoing maintenance services to ensure optimal system performance and compliance. Trust M Nawaz and Company for reliable, efficient fire protection system installations.

1. Planning and Design

Initial Assessment: Conduct a site survey to determine the layout, type of building, fire risks, and compliance with local fire safety codes.

System Design: Based on the survey and requirements, design the fire fighting system (e.g., wet, dry, or pre-action system). This involves:

- Hydrant and sprinkler locations.
- Water supply sources (e.g., tanks, pumps, city water).
- Pipe sizes and material selection.
- System capacity (flow and pressure).

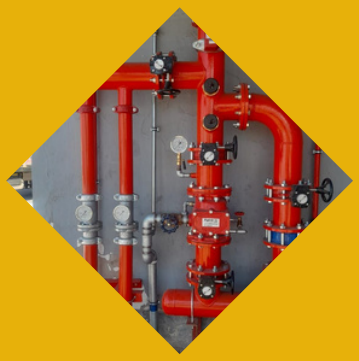
Approval: Submit the design for approval by relevant fire safety authorities and building inspectors.

2. Preparation and Material Procurement

- Materials List: Based on the design, compile a list of required materials such as pipes, fittings, valves, fire pumps, nozzles, hydrants, sprinkler heads, hangers, and supports.

Procurement: Purchase high-quality materials compliant with international or local fire safety standards.

3. Site Preparation



- Clearing the Site: Ensure the site is cleared of obstructions and other materials that may hinder the installation process.
- Marking: Mark the locations where the piping, sprinkler heads, hydrants, and control panels will be installed.
- Safety Measures: Set up proper safety precautions including fire watch, safety barriers, and signage to protect workers and the building occupants.

Fire Fighting System Installation

4. Installation of Fire Fighting Piping

- Pipe Routing: Install pipes according to the approved design. The routing depends on the type of system (e.g., wet riser, dry riser). The pipes should be installed in concealed or easily accessible locations.
  - Horizontal Pipes: Install along ceilings or walls.
  - Vertical Pipes: Install riser pipes, ensuring that they run vertically in shafts or walls.
- Pipe Cutting and Threading: Measure and cut pipes as per the design specifications. Use threading or welding (depending on material) for joining the pipes.
- Fittings and Joints: Use appropriate fittings (elbows, tees, couplings) to connect pipe segments and change directions.
- Sealing: Ensure all pipe connections are properly sealed to prevent leaks. Use thread sealants or welding methods.

- 5. Installation of Fire Fighting Equipment
- Sprinklers: Install sprinkler heads according to the design specifications, ensuring proper orientation, coverage, and water flow.
- Hydrants: Install fire hydrants at required locations for easy access by fire fighting personnel.
- Valves: Install isolation valves at appropriate points in the system to allow for maintenance and control.
- Pumps and Controllers: Install fire pumps, controllers, and pressure switches to ensure a reliable water supply and automatic activation in the event of a fire.

- Control Panel: Install and wire the control panel, which monitors the system and activates the alarm or other safety measures when needed.
- 6. Testing and Commissioning
- Leak Testing: Conduct pressure tests on the entire system to check for leaks in the piping, valves, and fittings. Ensure all joints are sealed properly.
- Water Flow Test: Perform a water flow test to check that the sprinklers, hydrants, and other outlets provide the required flow and pressure.
- Functional Testing: Test the fire pumps, sprinkler heads, and control panels to ensure that they activate correctly when needed.
- Flow and Pressure Adjustments: Ensure the system delivers the required pressure and flow rates according to design specifications.

M. NAWAZ AND COMPANY

Fire Fighting System Installation

7. Inspection and Certification

- Compliance Inspection: Arrange for a fire safety inspection by local authorities or third-party inspectors. They will verify that the system is installed in accordance with the relevant codes and standards.
- Correction of Issues: If any issues or deficiencies are noted, correct them promptly and have the system re-inspected.
- Certification: Upon successful inspection, obtain certification of compliance with fire safety regulations.

8. Training and Handover

- System Handover: Provide the building owners or maintenance team with detailed documentation, including design schematics, operation manuals, and maintenance guidelines.
- Training: Train the responsible personnel on the operation, maintenance, and troubleshooting of the fire fighting system.
    - This may include fire pump operation, valve handling, sprinkler testing, and understanding the fire alarm system.

9. Ongoing Maintenance

- Periodic Inspections: Establish a routine maintenance schedule, including regular inspections, testing, and servicing of all components (piping, pumps, sprinklers, valves).
- Record Keeping: Maintain records of maintenance, repairs, and testing to ensure compliance and functionality.
- Upgrades: Regularly update the system as required by changes in fire codes, occupancy, or building modifications.

Projects Images



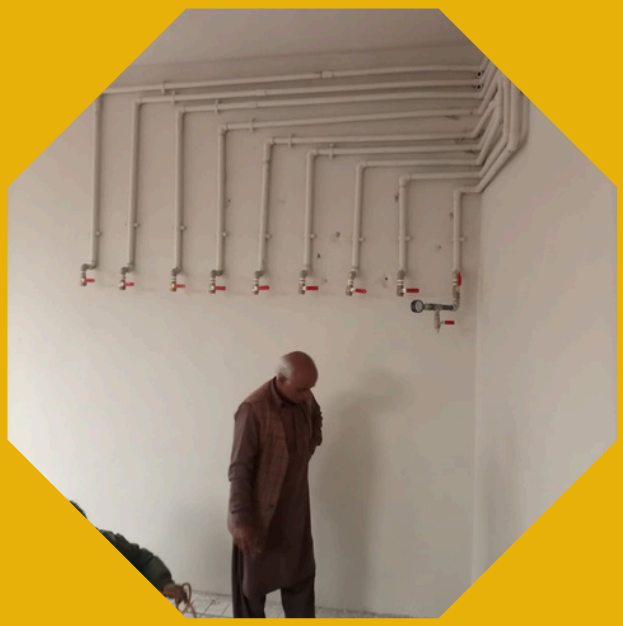






Projects Images

Projects Images



Contact Us

+92-0300-5599449

+92-0322-5060150

Email Address

rashidnawaz112@gmail.com

Office Address

Shop no 9 plot no 16-c,chaudary plaza sector i-9
Markaz Islamabad