

Committed to meet optimize use of water  
and to treat precious resources of nature  
with great care

- Swimming Pool Filtration Systems
- Water Treatment Plant (WTP)
- Waste Water Treatment Plant (WWTP)
- Hot Water Systems
- Hydro-Pneumatic System (HPN)
- Water Features
- Annual Maintenance Contract (AMC)



A close-up photograph of water splashing onto a person's arm. The water is captured in mid-air, creating a spray of droplets. The background is a lush, out-of-focus green, likely foliage. The overall scene is bright and fresh, symbolizing water and nature.

## About Us

Neer Tech is a very growing and evolving organization in the field of water system integration, we provide efficient & reliable solutions in water & waste water treatment. We offer our services from project planning to execution of projects. At Neer Tech , we incorporate state-of-the-art products and technology in our offerings to ensure highest quality of system integration and installation. Neer Tech is committed to optimize use of water and to treat precious resources of nature with great care and return it to nature in clean form.

## Our Vision

Our aim to become eco-friendly, preferred business associate to our customers in water and waste water management, by developing sustainable, innovative cost effective methods consistently with timely support in all aspects.

## Our Mission

We work with our clients empathetically to attain superior water management solutions by providing reliable technical support and personalized service to various industries at all times, ensuring the improvement in quality and meeting the commitment towards green environment.



## Skimmer Type

Skimmer weirs are water outflow points that are located intermittently in the pool wall. In skimmer type pools, it is recommended to have 70% flow through the skimmers and the remaining 30% through the drains placed on the deepest point of the pool.

### Advantages

- Skimmer weirs have several constructional advantages in free formed pools.
- The initial cost of installation is lower than overflow type pool.
- No separate balancing tank is required as they have inbuilt weir.

### Limitations

- Skimmers should not be used for pools having high bathing loads.
- Since a free board of 150mm is maintained in these types of pools, the effective water depth = deck level minus 150 mm. Skimmers are limited to only smaller sized pools that would have a surface area less



## Overflow Type

An overflow pool is also known as a deck level pool. The entire perimeter of the pool is surrounded by an overflow channel. The outflow in the overflow types of pools have a continuous weir extending around the full perimeter of the pool, designed to take in excess of 80% of their circulating water. The remaining 20% of the flow should take place from the drains provided in the deepest point of the pool

## Advantages

- By providing the adequate number of evenly spaced fresh water inlets, the deck level overflow pools possess the highest standard of circulation that any other type of pool.

## Limitations

- The cost of a separate balancing tank and the overflow channels may be termed as the only limitations in this scheme.



## Pipeless Type

- Pipeless Type
- No water leaking problem
- Energy saving LED light
- Fully Automatic electronic control
- Vacuum point included
- High-efficiency ozone disinfection
- Easy installation and maintenance
- No piping and no plant room

## Limitations

- Single Filter cannot cover length more than 10 Meter
- Around 100 mm water level will be down from surface
- It cannot be used where high bathing load
-

## Water Treatment Plant – WTP

Drinking water is a very precious commodity for almost half the world. Have you ever wondered what is happening to wastewater after we flush it down by our drain and toilets? Mostly, we believe it is not our concern. At least until we start contemplating the wastewater treatment. Neer tech is a turnkey solution provider for water & waste water treatment.

### RO System

In a RO, there is separation of dissolved solids and minerals present in water. This is achieved by using semi-permeable RO membrane which allows the passage of water but leaves the majority of dissolved solids and other impurities behind. The RO membranes require water to be under high pressure to do this. A properly run RO system can remove up to 99.5% of dissolved parts and other impurities. We design wide ranges of RO.



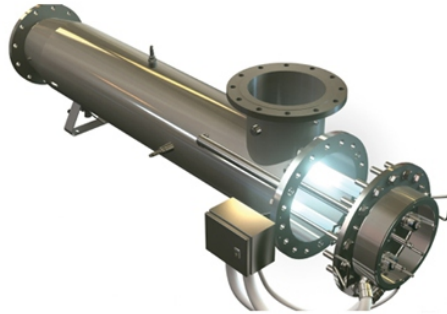
### Automatic Water Softening Plant

Hard water is softened by removing the calcium magnesium it contains. It is achieved by passing hard water through softening the plant's resin bed,  $Ca^{+}$  and  $Mg^{+}$  ions are removed through the ion exchange process so only soft water is available as a product water.



## Ultra-Violate System

UV designed to kill bacteria, viruses etc in running water. It takes inlet from a connected running water tap. UV and UF should be used as a combination as UV kills bacteria, viruses, but their bodies remain in the water which is trapped by Ultra-filtration.



## Ozonation

Ozone is a powerful oxidising agent which, when dissolved in water, produces a broad spectrum biocide that destroys all bacteria, viruses and cysts. Ozone water treatment has been used commercially for the treatment of potable water.



## Ultra Filtration Plant

Ultra-filtration is used in both water treatment as well as waste water treatment. UF is a variety of membrane filtration in which suspended solids and solutes of high molecular weight are retained, while water and low molecular weight solutes pass through the membrane in the filtrate. UF is most effective to treat muddy, turbid water. UF also brings down the turbidity level below 1.0 NTU





## Waste Water Treatment Plant – WWTP

Neer Tech develops suitable and sustainable technologies for daily waste water treatment plant operations depending upon the size of the plants for handling domestic sewage as well as process waste. Our offered solutions contribute to customized, efficient and cost-effective processes covering the complete treatment of wastewater.

### Types of Water

Neer Tech provides a waste water solution divided into three major groups as:

- Sewage water is all waste water used in domestic dwellings (e.g. originating from toilets, showers or sinks)
- Grey Water is generally waste water from showers, baths, basins, and washing machines
- Industrial wastewater originates from production, industrial and commercial activities and has a different chemical composition to sewage water

### Stages of Work

Neer Tech standing besides clients from the very initial stage till the end. This is because we believe that every single stage of the project is utmost important for smooth completion of the project.

#### Execution Stage:

- Developing Prefabricated Modules
- Inspection and testing by customers
- Supply & Installation of Materials
- Testing & Commissioning
- Operator Training
- Trial Run
- 24/7 Operations and Maintenance

#### Pre-Establishment Stage:

- Water Chemistry Analysis
- Treatment Process
- Suitable capacity of plant
- C-MEP Design & Detail & Engineering
- Civil Layout Preparation for WTP & WWTP
- MEP Layout preparation
- Supervision of Civil work and related services





## Hot Water Systems

Neer Tech has expertise in selecting and installing Hot Water Systems for individual villas, centralized hot water systems for residential projects, hotels. We provide the complete hot water systems solution depending upon best viable & affordable option for client's need and comfort:

Air source heat pump is a water heater that sources the heat from the air to heat water.

Working principle is based on the Reversed Carnot cycle. Usually, a heat pump has four main components: Evaporator, Compressor, Condenser, and Expansion device. The refrigerant is the medium to connect the four parts. With our technology the liquid refrigerant in the compressor will be pumped into high temperature and high pressure gas by using very little amount of electricity.

Heat pump consumes only ¼ electric power compared to regular electric water heaters. This way our product is not just saves money but also is an environment friendly.



Electrical Heat Pump  
(With External Storage Tank)



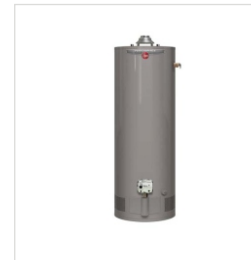
Solar Hot  
Water System



Hybrid Hot Water  
Solution  
(Solar + Heat Pump)



All In One Heat Pump  
(In built storage  
tank)



Gas / Electrical  
Water Heater



## Hydro-Pneumatic System (HPN)

HPN system consists of a pressure pump and a pressure tank. The pressure tank consists of a rubber bladder which is surrounded by pressurized air because of the non-compressible nature of water as a fluid. When you open a shower or tap knob water from this tank is utilized. When water is utilized pressure in the tank is reduced, as this is being sensed by a pressure switch which triggers a pump in ON state. Once the set pressure is achieved, the pump shuts OFF. This system works completely automatically hence reducing dependency on manpower. This system can be classified into several types:

### Tank Feeding

- Tank Feeding Typically used to fill up different overhead tanks from one central tank. Tap Feeding Used where all the taps are supplied with pressurized water

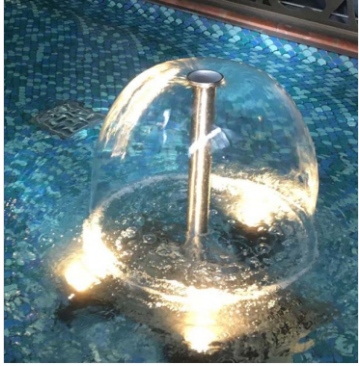
### Tap Feeding

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Neer Tech designs and integrates systems as per client's requirement, and based on Piping Design. Our expertise is to understand piping design and then design appropriate Pumping systems. Just because we design the system, we take care in selecting pumps, which gives the highest efficiency.



# Water Features



Bell Jet



Dry Deck



Finger Jet



Form Jet



Spray Nozzle



Jacuzzi



Multi Jet Nozzle



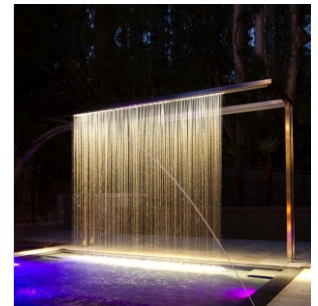
Mushroom Umbrella



Single Jet



Water Cascade



Water Curtain



## Annual Maintenance Contract (AMC)

Neer Tech provide Annual Maintenance Contract for ETP / STP /WTP & Swimming Pool

- Skill Operators for operation
- Strong Technical skills to carry out Erection, Commissioning, Maintenance, Operation, Project.
- Skilled Manpower support –O&M and Consultancy services
- Technical Training for Engineers and Technicians.
- Monthly Water Analysis report
- Maintain Pump room Area
- Keeping safety for electro-mechanical equipments.

All the services, operation & maintenance and replacements can be carried out by visits on-site by our trained field technicians who are able to provide all the technical supports in order to achieve the best results.



## Neer Tech

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