

Your partner in resource recovery!



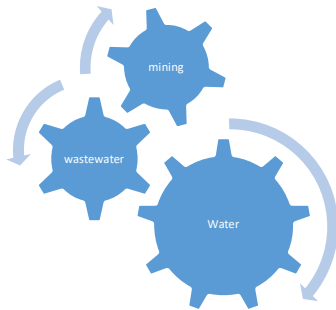
NWD Water Purification CO LLC

Profile



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Our core Team/Management



NWD water purification co is JV of National water established in 1985 and Denserp technologies established in 2009 in Pakistan has practical multi-discipline expertise in Engineering, procurement and contracting detailed design engineering and project management in both Greenfield and Brownfield projects of water, wastewater, environmental process and seawater intake We pride ourselves on our ability to create fit for purpose, high return engineering solutions for our Clients.



Danish Faraz

Head of Sales and operations (Water &Wastewater)
BSc, BE Chemical Engineering



Imad Najeeb

Director/Principal Engineer (Water and Wastewater)
BE Chem, ME Process Engg (UNSW, Australia), MIENGAus PhD scholar



Mir Alimuddin Wasif

Principal Structural Engineer Civil
BE Civil, MS Structural (University of Iowa USA)



Munawar Mansoor

Lead Engineer Mechanical
BE Mech, MS Mech (University of Ottawa, Canada)



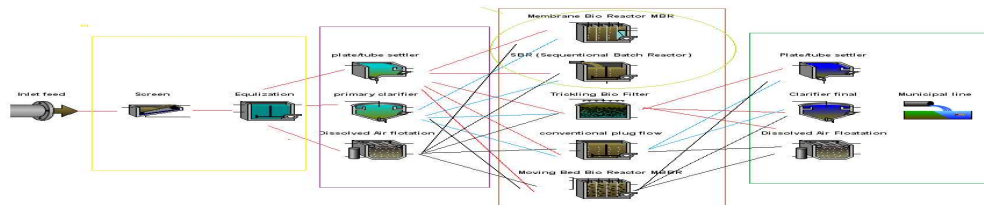
Meer Rehman

Sr process engineer Water/Wastewater
BE Chem, ME Chem

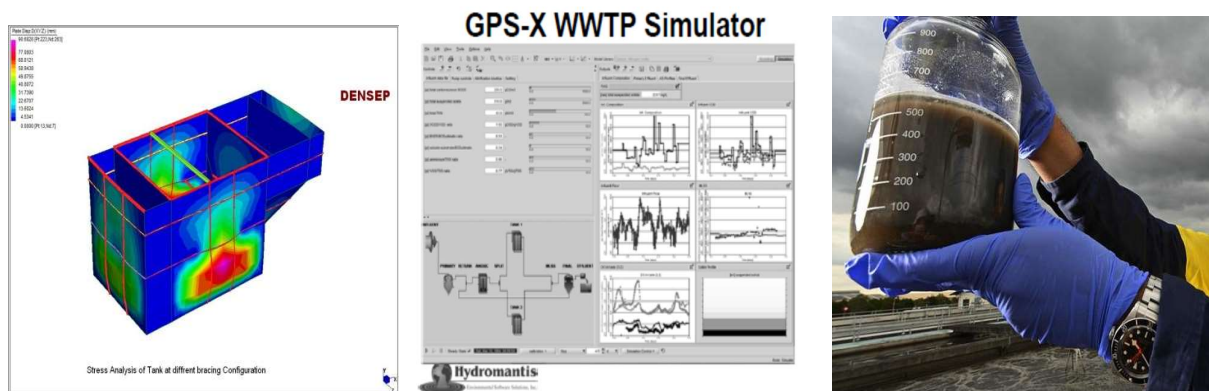
NWD water and wastewater design capabilities

Technologies we are offering in wastewater;

Process designing | FEED | Hydraulic design | P&ID | HFD | Process optimization | SLD



Mechanical designing | Stress and structure analysis | Piping layouts/routes | GA layouts



We utilize *Licensed GPS-X* process design software for design, modelling and optimization of wastewater treatment plant.

Wastewater technologies like

- Membrane Bio reactor MBR
- Extended aeration and complete mixed reactors
- Sequential batch reactor SBR
- Trickling bio-filter and Moving bed bio reactor MBBR
- Anaerobic UASB reactors

NWD have expertise in upstream and downstream infrastructure such as .

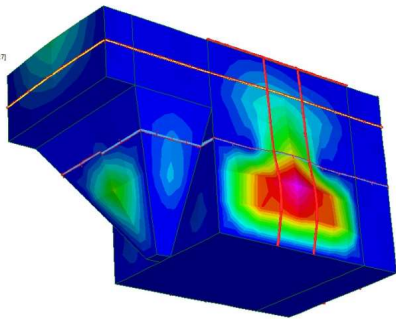
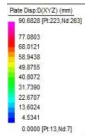
- surface water intake, ground water intake (tube wells etc.)
- water transmission main
- water & Sewerage pump station
- water distribution network

Package customize Plants

NWD customized package plant included wastewater treatment plant, sewage treatment plant, Drinking water membrane separation plants, electro coagulation units and bio-solids dewatering units.

Package plant are quick installed and ready to operate in short time. For wastewater NWD utilized quick microorganism culture for immediate bio seeding instead of utilizing activated sludge from other plant.

Our package steel plants are fully structurally check and design using commercial stress analysis software before fabrication.



Similarly for drinking and ultrapure water NWD offers readymade skid mounted unit that are fully tested.



CEDI package skid mounted unit, Pakistan



Skid mounted RO package units, Iran



Extended Aeration STP, Asian petroleum



Trickling bio filter STP, 100,000 GPD
Karachi , Pakistan



Package SBR unit , HUB



Electro coagulation package units produce water, PGNiG, Sindh Pakistan



MBR effluent treatment unit, Karachi



RO package plant, Lebanon FZ industrial area



Albacore Oman (Off shore RO Package skid)



Supply of 26 kg/hr DS screw press to Iran

NWD Trunkey Projects

Our turnkey EPC projects are diversified , We offers complete EPC solution in Membrane desolation RO plant, wastewater treatment plant, Water treatment plant (membrane and conventional filtration based) and sea water intake and pumping stations.



**Naduro Sugar Power plant 47 m3/hr RO + CEDI
2011**

1 MGD Ultra filtration Plant, Badin, Pakistan 2012



Design, Engineering and Manufacturing of 1.4 MGD Water Treatment in Filtration plant , Nilore Islamabad ,2019



Design, Engineering and execution of complete mix activated sludge process for Artistic Milliners Textile AMPQ effluent treatment plant ETP 55 m3/hr



Design, engineering of SBR Effluent Treatment Plant for Sugarmill , Pakistan 2017



Design and Engineering of 12000 GPD Containerized Reverse Osmosis Plant and STP , Pakistan 2018

Sea Water Intake

For sustainable production of drinking water from membrane desalination, intake of sea water is crucial. NWD offers sea water intake along with brine water discharge and post pumping.



**Design and Engineering of 14 MGD Sea Water Intake and pumping station at Karachi , Hawaks bay, Pakistan
2015**

Design and engineering projects

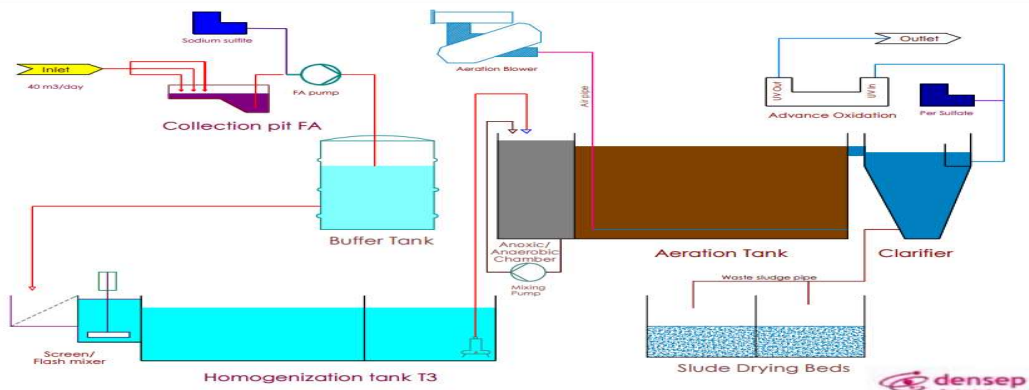
NWD also offers design and engineering services to our client, our professionals are highly qualified and have experience in GCC region and other international experience.

Scope of work process design, mechanical design, electrical and automation, material selection, BOQ and plant commission. Below is some snap of 24 MGD RO Desalination plant at Tharparkar, Pakistan



Hazardous wastewater treatment

NWD is specialized in hazardous wastewater treatment included leachate treatment, heavy metal and produce water treatment. We are utilizing different technologies that are wastewater specific. Our engineer selected the best process of treatment considering both CAPEX and OPEX.



Hazardous wastewater treatment formaldehyde Industry 2021

Solid waste treatment and composting

Solid wastewater composting is most economical method for organic waste treatment that not only reduce the waste size but there end product is use as fertilizer.



Densep Pilot windrows at 1 ton/day capacity

Design capacity 1 ton/day

Process type continuous windrow

Sorting Manual sorting

Waste type Campus waste mainly organics

Monitoring Humidity and temperature

Results

Waste reduction

Reduce 480 kg weight to 35 kg in 22 days single run

Bulking agent grass straws

Mechanical Equipments

NWD are offering various types of wastewater equipments, some of equipment we are design and fabricated in house.

Equipments	Specifications
Backward and Forward Clarifier	Up to 15 meter width
Half bridge and full bridge circular clarifier	Up to 22 meter diameter
Dissolved Air floatation	1500 total suspended solid load
Skid mounted electro-coagulation system	40 KW
Package MBR, SBR and other STP units	50,000 GPD
Ultra filtration plants	Any capacity
Skid mounted Rapid sand filter	50,000 GPD
SBR decanters	300 mm flange connection (600 m3/hr)
Submerged Horizontal flocculators	10 meter width tank
Top mounted flocculators	Any capacity
Reverse Osmosis plant	Any capacity
Sand Trap/Grit removal	

Rehabilitation, Optimization and Operation and Maintenance O&M Contracts

At NWD offers complete services of Rehabilitation, process improvement, Resource recovery and Operation and Maintenance contracts and support, our portfolio included

- Membrane desalination facility
- Sewage Treatment plants/facility
- Effluent treatment and hazardous waste treatment plant
- Solid waste treatment/composting facility
- Water treatment plant



Vertical mechanical screen and to and fro scrapper fabricated in our workshop



Design , fabrication and installation of fix bridge clarifier 8 meter dia

After sales support

NWD is not just sale a solution to customer but we are the partner for entire project life cycle.



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