



drilling & geotechnical

DEEP WATER WELL



What is Deep Water Well?

Geonusa Utama provides professional deep water well drilling services to access clean groundwater from deep aquifers. Using rotary drilling machines, we reach water-bearing zones with the required quality for residential, agricultural, or industrial use.

Drilling uses water or bentonite mud to remove cuttings and cool the drill bit. The well is constructed with PVC or galvanized steel casing and a screen placed in the aquifer zone. A gravel or sand pack filters out fine particles, while a bentonite and cement seal protects against surface contamination.

Our services include water quality testing, filter system installation, and complete pump and piping setup — delivering reliable and safe water access tailored to your needs.

Applications

- **Clean Water Supply for Communities:** Ideal for rural areas or

developing regions where surface water is limited or contaminated.

- **Industrial & Construction Projects:** Provides a reliable water source for batching plants, dust suppression, and concrete curing.
- **Agriculture & Irrigation:** Supports consistent irrigation, especially in areas with dry seasons or fluctuating rainfall.
- **Commercial Buildings & Resorts:** Ensures self-sufficiency and cost-saving water supply for facilities with high water demand.
- **Emergency Backup Water Source:** Acts as a contingency during municipal water outages or drought conditions.

Benefits

- **Access to High Quality Groundwater:** Deep aquifers are less likely to be polluted, offering cleaner and safer water.
- **Long-Term Water Security:** More sustainable than shallow wells due to greater storage and slower depletion rates.
- **Reduced Operational Costs:** Lower dependency on municipal water systems helps reduce monthly utility bills.
- **Customizable for Site Needs:** Well depth, casing material, and pump system can be tailored for specific site conditions and water demand.
- **Environmentally Friendly Solution:** Helps reduce strain on surface water bodies, supporting environmental conservation.

Equipment Highlight

We use compact hydraulic drilling machines designed for low-clearance workspaces, allowing pile installation with high precision even in challenging environments

- Experienced team and in-house equipment



Contact Us:

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Why Choose Geonusa Utama?

- 15+ years of experience in geotechnical solutions
- Proven track record in infrastructure and private sector
- Committed to safety and quality