WASTEWATER TREATMENT PLANT (UASB), BAJAJ HINDUSTAN

Bajaj Hindustan, one of India's leading sugar and distillery producers, faced the challenge of treating high-strength effluents generated from its molasses-based operations.

To ensure regulatory compliance and environmental sustainability, WOG designed and implemented advanced wastewater treatment systems at the Rudhauli and Kinauni units, achieving significant reductions in COD, BOD and solids while enabling efficient and sustainable plant operations.

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Challenges

🔹 Industry: Sugar / Molasses-based Distillery
🔹 Location: India (Rudhauli & Kinauni units)

High-strength effluent with very high COD & BOD, acidic pH and solids requiring effective treatment to meet discharge norms.

Solutions

- Technology Used:

Rudhauli: UASB + MBBR + Tertiary Treatment
Kinauni: UASB + Activated Sludge Process + Tertiary Treatment

- Design, Engineering, Supply, Supervision, Installation & Commissioning by WOG

Plant Capacities

- **Rudhauli:** 1200 m^3/day
- **Kinauni:** 1400 m^3/day

Results

✅ COD reduction: <7000 mg/l → <250 mg/l
✅ BOD reduction: <3500 mg/l → <30 mg/l
✅ TSS reduction: <100 mg/l → <10 mg/l
✅ pH correction: 2.5–4.5 → 6.5–7.5 (neutralized)
✅ Compliance with regulatory standards

For detailed techno-commercial proposal or site visit coordination,

📧 **Drop us an e-mail at: info@woggroup.com**

Impact

- Efficient wastewater treatment for distillery operations
- Significant reduction in organic load & solids
- Sustainable, regulatory-compliant discharge