NTPC Issues Tender for 1 MW Green Hydrogen Electrolyzer

NTPC Renewable Energy, a subsidiary of NTPC Green Energy, has issued a tender to develop green hydrogen generation unit/electrolyzer for a 1 MW green hydrogen mobility project in Kandla, Gujarat.

Bidding is open for already selected manufacturers supplying proton exchange membrane (PEM) technology and non-PEM technology systems.

Bids must be submitted by February 11, 2025. Bids will be opened on February 12.

The project must be commissioned in seven and a half months.

Bidders must submit an earnest money deposit of ₹2 million (~$23,166.72).

They must design, engineer, deliver equipment, complete safety studies including hazard identification and risk assessment, provide electrical system charging, erect all project equipment, commission the systems, and test the project.

They must also obtain land clearances and administration approval, and conduct vendor finalization for the project.

They must commission the project within 240 days of the award.

Recently, the Chennai Petroleum Corporation issued a tender to install a GHGU of 2 KTA capacity on a build, own, and operate basis at its Manali Refinery, Chennai. Selected bidders must source renewable energy from their solar or wind projects or purchase it from third-party energy producers during the contractual period.

In November 2024, Power Grid Corporation of India invited bids to establish a solar-powered green hydrogen project and fuel cell-based microgrid system at the 400/220 kV Neemrana substation, Rajasthan. The tender targeted setting up the solar project, the green hydrogen production plant using water electrolysis, the hydrogen storage facility, and a fuel cell to generate electricity to meet the substation's day and night load demands.

In 2023, NTPC Renewable Energy chose Hild Electric, a manufacturer and deployer of electrolyzers, as the alkaline electrolyzer technology provider. NTPC has set a target of producing at least 150 kilotons per annum of green hydrogen by 2032.