Annexure

Supply, Installation, Commissioning and Demonstration of Palladium membrane technology based Hydrogen Generator

Specifications

1. Hydrogen generation based on the principle of electrolytic dissociation of water
2. Hydrogen generator based on Palladium membrane cathode technology
3. Electrolytic reagent: Potassium hydroxide (KOH) solution
4. Hydrogen gas purity: better than 99.9999%
5. Moisture content: less than 1 ppm
6. Hydrogen gas flow rate: upto 300 cc/min (Normal volume)
7. Hydrogen gas output pressure: 0 to 60 psig, regulated
8. Dead volume: Less than 50 cc of stored hydrogen under pressure
9. Outlet port: 1/8 inch
10. Other features
    i. Digital LED display of hydrogen gas output pressure
    ii. Cell status indicator with alarm
    iii. Low water reminder with alarm
    iv. Automatic shutdown under overpressure
    v. Necessary safety backups to be provided
11. Power Supply: 230 V AC, 1 phase, 50 Hz
12. The system should be suitable for continuous operation for 100 Hrs
13. Spares and consumables for 3 years operation may be quoted separately.
14. The party shall indicate the quality of water required.
15. Detailed operation and maintenance manual shall be supplied with the unit.
16. Trouble free operation for two years. Faulty parts to be replaced by the supplier during this period without any additional cost