

## 220 MW GAS FIRED POWER BARGE 50 HZ

Combined Cycle Power Barge designed as per ABS standards, consists of Four (4) LM 6000 pc sprint gas turbine generator sets once through steam generator and a steam turbine generator. Power is evacuated 220 kv substation. Rated power is 220 mw.

### Main Equipment:

- 4 x 50.8 mw each General Electric PC Sprint gas turbine with GE air cooled synchronous 11 kv, 50 hz Generators
- 4 x Innovative Steam Technologies (IST) once through steam generators HP steam: 56 bar/419 °C LP steam 4.7 bar/240 °C.
- 1 x 53 mw Alstom (ABB) steam turbine generator set 11 kv, 50 hz
- Combined cycle power plant.
- 220 Kv substation (on land) consists of 3 x 11kv/220 kv GSU, 4 x aux. transformers 6.6 kv and 415 kv for Auxiliaries power, ABB PASS type
- Dm plant, closed loop cooling water system, fire protection system.

### Performance:

Fuel: Natural Gas approximately 1 mmscmd  
Water: 1000 cumd  
Plant can be operated as simple cycle mode

Power barge size: 106-meter-long, 55-meter-wide, 6-meter height minimum 3-meter draft needed.  
15,325 tons.

### History:

Barge is built 2001 by Hyundai, Operated India until 2010 on Naphtha. Due to shortage of Naphtha the barge is moved 2010 to new location and converted to run on natural gas with additional investment of approximate 90 million dollars. Work completed 2012.

Approximate running life time hours 33,000. Maintained as per manufacturers recommendations. Barge is under preservation 2013 onwards.

Barge can be converted back to liquid fuel.

