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NUCLEAR RECYCLE BOARD

KNRPC, INSTRUMENTATION SECTION PERFORMANCE CERTIFICATE

25.07.2015

**Fire Protection System for WIP and SFSF at NRGP(K) -
Work Order NO. BARC/NRGP(K)/PD/0041/TR-163/2005/136 dated 01.08.2005**

GULF ENGINEERS & CONSTRUCTORS PRIVATE LIMITED, CHENNAI 600 057 has been awarded the above mentioned work, along with the Instrumentation System that takes care to activate automatically the entire **FIRE PROTECTION SYSTEM** through the PLCs provided when a fixed pressure maintained in the 1.3 KM long Pipeline Ring Main System falls below a particular level.

This instrumentation System is so furnished to activate even when the main electricity fails, and to fast start the DG and the intermediate boosters like Jockey Pump, Air Compressors and a Hydro Pneumatic Tank. As the delivery of Water is massive - 5700 LPS - and therefore when the pressure added the PLC also stops the Vertical Turbine Pump. A Soft Starter is also provided for the controlled water delivery and pressure buildup, with certain properly evaluated back-ups to furnish an infallible system that we have envisioned to perform properly even during critical or disaster times and so possibly designed.

GULF ENGINEERS & CONSTRUCTORS PRIVATE LIMITED, CHENNAI 600 057 has appreciably well executed this work to our satisfaction in 2009, and the same is performing well on-date during regular and periodical inspections.

(James Joseph)
SO/G, Head (I&C Section)

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