**Summary**

The draft power sector master plan update 2010 identifies the need to add 11 CCPPs each with 450 MW capacity in 2010 2016. The proposed Ashuganj 450 MW plant (part A) can be considered one of these CCPPs. Further, the government has identified the proposed plant as a priority project in its expansion plan. The economic cost of electricity supply from the Ashuganj CCPP is similar to or lower than those of a coal-fired power plant (based on the costs taken from the master plan), confirming that the proposed plant is among the least-cost options for generating new capacity. CCPP design will use the latest commercially available technology to harness the maximum benefit of energy efficiency. Part B of the project will demonstrate renewable energy technologies and their application for long-term large-scale penetration into the Bangladesh power system. The subcomponents in part B use solar photovoltaic, wind power, and LEDs, which are commercially proven technologies.