

QUESTIONS & ANSWERS (Q&A)
Faculties of Higher Education Balkh, Jawzjan & Faryab, Afghanistan
(Questions & Answers provided for informational purposes only)

If any Government responses indicate a change to the technical proposal, it is not official until
and amendment is issued)
25 November 2008

Question 1: SOW par. 4.4 shows that the contractor should connect to the existing potable water system and if insufficient water exists for support, contractor should provide alternative solutions although it is assumed that the flow rate is twice the daily demand. That means it is sufficient. Please explain?

Answer: 4.1.2 Water System

Design a potable water system, to include a ground well water source, water well pump, and bladder type hydro-pneumatic tank, and underground pipe distribution system. Assume that the well shall be constructed to deliver a minimum 414 kPa (60 psi) at a flow rate of 36 lpm (9.5 gpm). The two hydropneumatic tanks shall provide for a capacity of 500 liters (132 gallons) each. The hydro-pneumatic tanks and distribution system shall be designed to provide a minimum 276 kPa (40 psi) at the second level at all points in the system. Minimum pressures of 207 kPa (30 psi), under peak domestic flow conditions, can be tolerated in small areas as long as all peak flow requirements can be satisfied. Maximum water pressures in distribution mains and service lines shall not exceed 517 kPa (60 psi) at ground elevation. Provide an enclosed water well house to contain the well hydro-pneumatic tanks and chlorination system."

Question 2: We need data for the existing electrical distribution on the compound to see if it is sufficient for the new electrical demand or no. We need to estimate the size of the additional generators needed to meet SOW requirements.

"4.1.4 Site Electrical Distribution System

Answer: POWER SYSTEM: The contractor shall design a power system for supply and distribution to all buildings to include generator* with fuel storage (* only if the option is exercised), and underground electrical distribution. All electrical design and installation shall meet NEC (NFPA 70) requirements. Conductors and circuits shall be sized for the specific loads. If the power generation option is exercised, the power plant shall include a prime power generator, switchgear, and all appurtenances necessary to meet the electrical demand plus 25% spare capacity.

GENERATORS: Contractor shall connect to local power grid where available. The power generation option, and the design and installation of generators, shall only be exercised where reliable power is not available locally 24 hours per day.

GENERATOR FUEL STORAGE: If the power generation option is exercised, the Contractor shall provide a design for low-profile fuel storage tanks that can accommodate a 15 day fuel supply based on the generator operating at 100% load. Contractor shall design all interior

electrical systems as described in section 01015 Technical Requirements and shall design and install any required exterior lighting, as described in section 01015."

Question 3: we can't access the ftp sites presented in the RFP and we need to see the drawings and the appendices.

Answer: <ftp://155.85.54.201/pub/RFP%20for%20Faculties%20of%20Higher%20Education/>
<<ftp://155.85.54.201/pub/RFP for Faculties of Higher Education/>>

Question 4: The SOW discusses in par. 4.1 the population in a ratio of 25:1 student to educator. We need to know either the number of students or educators to calculate the water demand and the sewer requirements for the project.

Answer: From the RFP section 01010: "Contractor shall design the FHE compound for a population based on a 25:1 student to educator ratio for the number of classrooms and laboratories being provided in the base bid plus any classrooms in awarded bid options. Additional staff requirements to be considered include 6 administrators and 10 miscellaneous staff" So, there is a population of 26 people per classroom and lab along with 6 administrators and 10 other staff for the building.