

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

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21. TITLE AND LOCATION <i>(City and State)</i> Ghatghar Hydroelectric Project State of Maharashtra, India		22. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2002	CONSTRUCTION <i>(If applicable)</i> On-going
23. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER Government of Maharashtra	c. POINT OF CONTACT NAME V.V. Gaikwad		c. POINT OF CONTACT TELEPHONE NUMBER 011-9120-6121844

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost.)*

PROJECT DESCRIPTION

The Ghatghar Hydroelectric project, located east of Mumbai, consist of the first three RCC dams to be built in India. The upper and saddle dams for this pumped storage project are quite low at 14.5 and 11.5 m (48 and 38 ft) high, respectively. However, the main lower dam will be 84 m (276 ft) high and requires an RCC volume of 600,000 m³ (785,000 cy). Grout-enriched RCC (GERCC) faces have or will be used for all three dams.

PROJECT HIGHLIGHTS

- India's first three RCC dams, including one 84 m (276 ft) high
- Use of locally available poor quality fly ash in RCC
- GERCC upstream and downstream faces

SERVICES PROVIDED

A number of engineering services were provided to the contractor, Patel Engineering, during two visits to India by Ken Hansen. They included a review of RCC mixture proportioning studies using a poor quality locally available fly ash, aiding with on-site quality control procedures, a review of constructability, and providing cost-saving suggestions, including use of grout-enriched RCC faces (GERCC).

PROJECT COSTS

- Firm's Amount: \$47,400 (fee)



RCC Test Section – Cut Block



RCC Test Section - GERCC

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a. (1) FIRM NAME Kenneth D. Hansen, P.E.	(2) FIRM LOCATION <i>(City and State)</i> Greenwood Village, Colorado	(3) ROLE Independent RCC expert consultant