

Porce II Hydroelectric Power Plant Project

COLOMBIA

SECTOR: Energy

PROJECT NAME: Porce II Hydroelectric Power Plant Project
(792/OC-CO)

TOTAL COST: \$605.4 million

FINANCING:

IDB	\$328.0 million
LOCAL	\$277.4 million

DATE OF APPROVAL: December 1, 1993

GENERAL DESCRIPTION: The purpose of the project is to produce electric power in order to help meet demand within the system of Empresas Públicas de Medellín and that of the interconnected national network, starting in 1999 when the plant's first unit will begin commercial operation.

The project includes construction of the Porce II hydroelectric power plant in northwestern Colombia, 120 km north of the city of Medellín. This generating plant will have an installed capacity of 392 MW which will produce on average 2,044 GWh of power per year. The project also envisages institutional strengthening consisting of: (a) support for the second phase of the electricity loss-reduction plan; (b) support for the program to foster efficient energy use; (c) acquisition of computer equipment to help modernize professional work areas; and (d) a program of training on environmental matters, business management, energy saving and technical areas.

CIVIL WORKS: The project comprises the following principal works, which will be contracted out on the basis of international public bidding: (a) a roller compacted concrete dam 118 m high and 455 m long at the crest, incorporating a spillway and four radial gates with a maximum discharge of 9,860 m³/s, including dam and tunnel works; diversion, spillway and collection works, and ancillary works; (b) underground works: a powerhouse, an access tunnel, conveyance works and

tailrace,

and ancillary works; (c) sluice gates to serve as a bottom outlet, including supervision of assembly; (d) radial

spillway

gates, including supervision of assembly; (e) intake gates, trashracks and equipment for cleaning screens and draft tube, including supervision of assembly; (f) distributor and

tunnel

lining, including supervision of assembly; (g) supervision of assembly of turbines, speed governors and intake valves; and (h) supervision of the assembly of the main power

transformers.

Publication of the specific bidding notices for contracting

of

the works will start during the first quarter of 1994 and continue through the second quarter of 1995.

GOODS AND EQUIPMENT:

The following will be acquired through international public bidding: turbines, speed regulators and intake valves; main power transformers; generators and related equipment; materials for transmission lines; 230-kV lines; main 230-kV substation equipment with eight switchyards. Publication of the specific bidding notices will start during the first quarter of 1994 and continue into 1996. Computer equipment in the form of 150 microcomputers and the necessary software will also be purchased.

CONSULTANTS:

Some specialized consulting services will be hired for the program.

EXECUTING AGENCY:

Empresas Públicas de Medellín, Porce II Division

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