

**PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY
GOMAL ZAM DAM MULTIPURPOSE PROJECT**

BRIEF

1. PROJECT DESCRIPTION

Introduction

Under "Vision 2025 Programme of WAPDA", the Government of Pakistan (GOP) approved the Project in August, 2001. PC-I was prepared by WAPDA in August, 2001 at an estimated cost of Rs. 12,829 million (Rs. 4,964 million in Foreign Exchange) which was approved by executive Committee of the National Economic Council (ECNEC) on 31 August, 2001.

Location

Gomal Zam Dam is located at Khajuri Kach on Gomal River in South Waziristan Agency, Federally Administered Tribal Area (FATA), on the West of Districts Tank and D.I.Khan of NWFP. The areas to be irrigated fall in District Tank & Tehsil D.I.Khan Tank Road. From Tank, the Dam site is about 60 km (38 miles) to the West and is connected through a metal led road.

Objectives and Components

Primary objectives of the Project are:

- Development of a lined canal irrigation system
- Hydropower generation of about 17.4 MW
- Control of flashy hill torrent floods.

The project comprises the following major components:

- i. A 133 meters (437 feet) high curved Gravity Type Roller Compacted Concrete (RCC) Dam at Khajuri Kach with a Gross Storage of 1.140 MAF and a Live Storage of 0.892 MAF.
- ii. Power house near the Dam site to generate 17.4 MW of hydropower.
- iii. An irrigation system to serve a cultivable command area of about 66,000 hectares (163,100 acres) in Districts of Tank and Dera Ismail Khan. It includes a Diversion Barrage near Kot

- Murtaza Main Canal about 60 km (37.5 miles) long and Distributaries about 200 km (125 miles) long.
- iv. Flood protection works of protect the infrastructure and irrigated areas from flooding caused by hill torrents to the North.
 - v. On farm development works confined to construction of watercourses for conveying the water from outlets to farm gate.

Implementation

The project of being implemented by WAPDA. General Manager (Projects) North, WAPDA Peshawar is administering the Project. Project Director Gomal Zam Dam Project WAPDA is responsible for Project Implementation with the assistance of Management Consultants.

Go NWFP is associated through its irrigation Department by establishment of an outfit to look after the irrigation and Drainage Component of the project.

2. PROJECT IMPLEMENTATION

In February 2002, WAPDA engaged Management Consultants (MC) comprising a joint Venture of four national and one international firm led by National Development Consultants (NDC) to advise/assist the Employer in Procurement and Implementation of the Project through an Engineer, Procure and Construct (EPC) Turnkey Contract.

The Contract for implementation of the Project on Engineer Procure & Construct (EPC)/Turnkey basis was previously awarded by WAPDA on 17 June 2002 to the Joint Venture comprising China National Water Resources and Hydropower Engineering Corporation and Harbin Power Engineering company of the Peoples Republic of China at a Contract Price of Rs. 4,388,833,600 (65% foreign exchange) under EPC/Turnkey Contract to GZD-01.

The Project was scheduled for completion within a period of 4 years and 76 days to be reckoned from 15 July 2002 the date of commencement. The Chinese Contractor commenced the work on time but after the unfortunate incident of kidnapping of Chinese personnel on 09 October 2004 stopped the work forthwith. Efforts made by WAPDA to persuade the Chinese contractor to resume the work were not fruitful. Since the Contractor did not resume the work, the contract was eventually terminated by WAPDA on 14 April 2006.

In pursuance of the decision of Economic Coordination Committee (ECC) of the Cabinet for award of Contract to Frontier Works Organization (FWO) on EPC/Turnkey basis, WAPDA awarded an EPC/Turnkey Contract No. GZD-02 to FWO on 09 March 2007 at a Contract Price of Rs. 10,400,633,666 (65% of foreign Sub Contractor's cost in foreign Exchange) for completion of the Project works as per scope of the previous Contractor. M/s Sinohydro Corporation of China are the Sub Contractor for the Dam & Hydropower Component (Less Transmission Line) and M/s Tekser of Turkey are the Sub Contractor for the Irrigation and Flood Protection Component.

The Works are scheduled for completion within a period of 03 years and 120 days to be reckoned from 11 June 2007, the notified date of commencement. The Project is thus expected for completion on 08 October 2010.

3. PHYSICAL & FINANCIAL PROGRESS

The previous EPC Contractor had achieved 13.3% physical progress of Permanent Works executed at site upto 09 October 2004. The completed works include Design Services (partly) 392 m long concrete lined Diversion Tunnel (6.8m inner dia) Dam abutments excavation (Partly) Foundations for Transmission Line some work on Main Canal and Distributaries.

After re award of work FWO started mobilization and deploying their troops and FC troops for security purposes in the last week of May 2007 which continued during June and July 2007. The Chinese Sub Contractor of FWO also started mobilizing Chinese/Local personnel on Dam site in June 2007. After restoration of preparatory works the Contractor started work at site on 10 August 2007 which is in progress.

Overall Physical and Financial Progress ending June 2008

Physical Progress

Progress achieved under previous Contract No. GZD-01	=	13.3%
Progress achieved under Contract No. GZD-02	=	7.4%
Overall Progress ending reporting period	=	20.7%

This progress is against overall target of 34.5%. The Shortfall is due to non-commencement of work on the Irrigation Component. The Contractor started mobilizing design personnel in February 2008.

Financial Progress

Financial Progress achieved under Contract No. GZD-01 = 6.8% (since terminated)

Financial Progress achieved under Contract No. GZD-02 = 14.7%

4. ALLOCATION & EXPENDITURE DURING THE YEAR 2008-09

There is an allocation of Rs. 2000 Million for the financial Year 2008-09.

Local	Component	=	2,000	Million
Foreign	Component	=		Nil
	Total	=	Rs. 2,000	Million

5. OVERALL FINANCIAL PROGRESS SINCE COMMENCEMENT

Total up date expenditure incurred on the Project since commencement is about Rs. 2.973 Million. The overall upto date financial progress on the project is thus 23.17% of the PC-I Cost (i.e. Rs. 12,829 Millions).