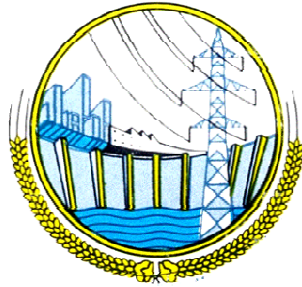**PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY**

MIRANI DAM
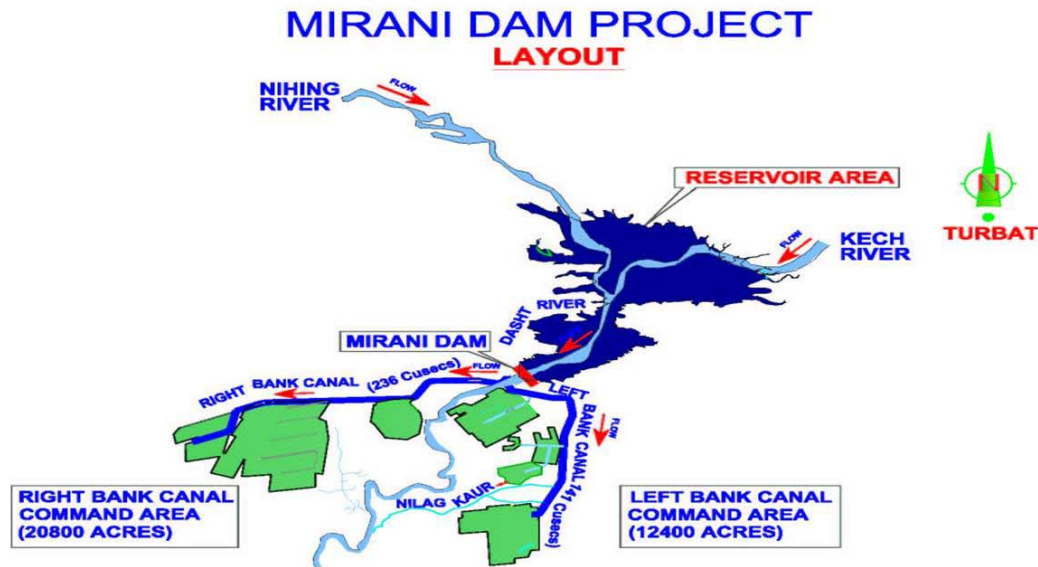
PROJECT BRIEF

NOVEMBER 2007

**GENERAL MANAGER (PROJECTS) SOUTH
WAPDA HOUSE LAHORE**

MIRANI DAM PROJECT

GENERAL

1. Mirani Dam has been constructed across Dasht River, about 30 miles West of Turbat in Makran Division of Balochistan. The Project is located about 380 miles South-West of Quetta. It has Central Makran Range in the north and is located on the confluence of two rivers i.e. Kech and Nihang. The scheme of the project is as under:-

2. It is the 1st Water sector project completed under Vision 2025 programme. It is the 1st Concrete Faced Rockfill Dam built on EPC basis in Pakistan. Its significance has become manifold due to its proximity to Gawadar and Rato Dero- Gawadar Motorway.

SALIENT FEATURES

3. Reservoir

a. Gross Storage	302,000 A. Ft.
b. Live Storage	152,000 A. Ft.
c. Maximum Conservation Level	244 Ft.

4. Dam

a. Type	Concrete Faced Rock fill
b. Maximum Height	127 Ft.
c. Length at Crest	3,080 Ft.
d. Top Width	20 Ft.

5. Spillway

a. Type	Ungated Overflow type
b. Crest Level	244 Ft.
c. Clear Waterway	600 Ft.
d. Design Capacity	205,800 Cusecs
e. Maximum Capacity	384,300 Cusecs

6. Outlet

a. Conduit Diameter	6 Ft.
b. Capacity	377 Cusecs

7. Irrigation System

a. Type	Gravity, Lined Channel
b. Command Area	
(1) Right Bank Canal	20,800 Acres
(2) Left Bank Canal	12,400 Acres
Total	33,200 Acres
c. Average Cropping Intensity	85%
d. Capacity of System	
(1) Right Bank Canal	236 Cusecs
(2) Left Bank Canal	141 Cusecs

8. Project Cost as per PC-I   Rs. 5811.00 Million

9. E.I.R.R.   12 %

10. Date Of Commencement   08 July 2002

11. Date of Substantial completion   30 June 2007

12. RAP PC-I   Rs. 1687.857 Million

13. Environmental Effect   Land effected 19038 Acres

PRESENT STATUS

14. PC-I for Rs 5811 Million approved by ECNEC on 28 Feb 2002 while Ground breaking was performed by President of Pakistan on 17 Aug 2001.

15. M/s NEAC Consultants were appointed as Management Consultants led by NESPAK for Rs. 111.000 M on 11 February 2002.

16. Contract awarded to Mirani Dam joint venture led by M/S DESCON for the construction of project on EPC/ Turnkey basis for Rs. 4.25 billion on 15 June 2002.

17. Works of O&M Colony, Employer's Site Office, Ancillary Works and Access Road from Turbat to Mirani Dam site (40 Km) were completed in July 2003.

18. Impounding of reservoir was started in July 2006. Resettlement Action Plan (RAP) upto Reservoir El 244 ft and El 264 ft prepared by NESPAK was endorsed to GOB on 04 June 05 and 07 April 06 respectively for implementation. An amount of Rs. 1131 M have been deposited with GOB for Land acquisition and implementation of RAP. The total land requirement of 19038 Acres has been acquired.

19. The Project was inaugurated by Honorable President of Pakistan on 16 November 2006.

20. The Project is substantially completed. Successful testing of all components of the project has been completed. Irrigation System has been tested jointly with Provincial Irrigation Department for its handing over to GOB.

21. PC- I of RAP for Rs. 1687.857 Million was approved by ECNEC in its meeting held on 19 September 2007.

22. The works related to Command Area Development have been taken up by GOB for which Rs. 122 M have been provided to GOB by WAPDA**.**

23. Physical and Financial progress attached as Annex - A and B.

PROJECT BENEFITS

22. Main benefits of the project include:-

   a. Provision of 40 Km of access road from Turbat to Mirani Dam site.

   b. Extension of 33 KV transmission line from Turbat to Mirani Dam.

   c. Irrigation of over 33,200 Acres of the land with average cropping intensity of 85%.

   d. Development of fisheries (1000 tons) and promotion of live stock, fruit production and forestry.

   e. Availability of additional water for domestic use.

   f. Employment opportunities for locals during construction and maintenance of the project. Approximately 500 jobs annually.

   g. Creation of drip and sprinkler Irrigation farms.

   h. Environmental and Socio-Economic uplift of the area.