

MANGLA DAM RAISING PROJECT

- ◆ Location Mangla District Mirpur A.K.
- ◆ Salient Feature
 - Height of Dam Raising 30 Feet
 - Additional Storage Capacity 2.88 MAF
 - Additional Power Generation **120 MW (644 Gwh/ Annum)**
12 % on existing Generation
- ◆ Scope of Work
 - To regain the reservoir capacity lost due to sedimentation.
 - To store more water for irrigation releases.
 - To minimize conservation of flood discharges and thereby enhance Irrigation releases.
- ◆ Executing Agency WAPDA
- ◆ Commencement Date June 2004
- ◆ Completion Date Actual June 2007/ Expected June 2009

Financial Status	Local	Foreign	Total (Rs. Million)
Project Cost PC-1(Original)	52875.00	9678.00	62,553.00
Project Cost PC-1(Revised)	92010.33	9374.00	101384.330
Expenditure upto June 30, 2008	62,358.624	-	62,358.624
PSDP Allocation 2008-09 (Revised)	8,000,000	-	18'000,000
Expenditure during the month (04/2009)	791.615	-	791.615
Current FY Expenditure (July 2008 ~ April 2009)	5,277.773	-	5,277.773
Expenditure upto April 30, 2009	67,681.776	-	67,681.776

Physical Progress

Description	Progress upto 30. 6.08 (%)	Target 07-08 (%)	Progress during March 2009 (%)		Progress during April 2009 (%)		Progress during 08-09 (%)	Cumulative Progress (%)	
			Target	Actual	Target	Actual		Target	Actual
Saddle Embankment	100	100	-	-	-	-	-	-	100
Preparatory Work									
Construction of Power House Bypass Road & Bridge Over Bong Canal	81.50	100	-	0.20	-	0.30	2.50	100	87.50
Renovation/ Construction of Office and Camps for WAPDA and Consultants	97.0	100	-	-	-	-	3.0	100	100

Description	Progress upto 30.6.08 (%)	Target 08-09 (%)	Progress during March 2009 (%)		Progress during April 2009 (%)		Progress during 08-09 (%)	Cumulative Progress (%)	
			Target	Actual	Target	Actual		Target	Actual
Resettlement Works									
New City and Four Small Towns	50.0	100.0	2.0	1.0	1.0	1.0	11.0	95.0	61.0
Design & Construction of VTI in New City	60.0	100.0	-	1.10	-	1.60	31.0	100	91.0
Up gradation of Dastkari School	84	100.0	-	-	-	-	-	100	84
Construction of Dhangali Bridge (21 "A")	14.0	33.0	7.0	6.60	5.0	4.9	15.50	22.0	15.50
Compensation to Affectees (Land, Houses and old affectees etc.	90.0	100.0	2.0	1.0	-	1.0	9.0	100	99.0
Construction of Main Works	67.20	100.0	-	2.0	-	4.50	21.30	100	88.50

MDR-06 BONG CANAL BRIDGE & POWERHOUSE BYPASS ROAD.

Contractor has completed the bridge including post-tensioning of top and bottom slabs. Upstream and Downstream Walkways and Barriers are also completed except general finishing of deck slab of the bridge. Installation of side drain pipes on deck slab in progress. The road work was resumed by the road partner of GSJV. Laying, grading and compaction of base course at Ch 2+350 to 2+600 completed. Laying of asphalted base was started and remained in progress at the same reach on the right side of the bridge. Progress is 87.50% against 100.0%.

MDR-10 CONSTRUCTION OF MAIN WORKS

Filling in the zones of Main Dam, Sukian Dyke & Jari Dam remained in progress. Maximum level reached on Main Dam & Sukian Dyke was El: 1262.00 ft whereas on Jari Dam was El: 1264.00 ft. Under-Water Filling remained in progress satisfactorily. Rip Rap placing above El. 1245.00 ft. of Main Dam, Sukian Dyke & Jari Dam remained in progress. Concrete Works for Intake Structure remained in progress. Placing of Roller Compacted Concrete (RCC) was completed upto El: 1237.00 ft. Roadway Embankment filling and placing aggregate base course and DST works were in progress for Mirpur Bypass Road. Physical progress is 88.50% against 100.0%.

OTHER WORKS

A New City near Mirpur and four small towns at Islamgarh, Chaksawari, Dudial and Siakh are being developed at the project cost for the resettlement of Mangla Dam Raising Project affectees. Development works in the New City and the works in four small towns will be carried out. The implementation status of each Contract is as under:

- **MDR-21”A” Bridge over Dhangali. RIGHT SIDE** Concrete 1st stage of construction of Pile cap has been completed. Fixing of steel sheets on formwork panels for pier is in progress. 20 out of 32 panels have been completed. Formwork for pile cap has been fabricated. Erection of angle iron frame for tower is in progress. 20m height has been completed. Two concrete pads have been constructed for anchoring of the tower. LEFT SIDE All piles stand completed. Extra concrete on top of pile has been removed. Contractor has constructed concrete blocks around periphery area of pile cap area. Raising and strengthening of coffer dam is in progress. Progress is 15.50% against 22.0%.
- **MDR-23-A (Contract for Construction of Kharak Dyke)** awarded to M/s Muhammad Ayub & Brothers Engineers and Contractors on April 5, 2007. Rip Rap placing is in progress. Laying of Kerb Stone is in progress. Installation of G.I pipe railing. Progress is 96.0% against 100.0%.
- **MDR-23-B (Contract for Construction of Panyam Dyke)** awarded to M/s Sarwar & Co. (Pvt) Ltd. on June 1, 2007. Filling works, construction of culverts and Rip Rap placing is in progress. 45.0% against 100.0%.
- **MDR-24 (Survey of New City)** Contract for construction of Primary and secondary roads in New City awarded to M/s Habib Rafiq (Pvt) Ltd. On March 24, 2005. Formation of embankment from roadway excavation, laying of sub base and aggregate base courses, construction of cross drainage structures, road side drains, walkway along roads, casting of RCC pipes and concrete kerbs are in progress. Progress is 89.50% against 100.0%.
- **MDR-25 (Tenders for Construction of roads including water supply and sewerage works in sector of New City)** Contract was awarded to M/s HRL on 17 Oct. 2006. Bulk excavation for development of plots, formation of embankment, laying of water supply and sewerage pipes, construction of culverts, road side drains and laying of aggregate sub-base, aggregate base-course in progress. Possession of plots to GoAJK remained in progress. Progress is 72.0% against 100.0%
- **MDR-26 (Contract for Construction of roads Including water supply and Sewerage works in small towns near Islamgarh and Chaksawari)** Contract was awarded to KKP (Pvt) Ltd. On 22 May, 2006. Islamgarh Town: Construction of Man holes in progress. Laying of Sewerage network and w/s distribution network in progress. Laying of Sub base course is in progress. Chaksawari Town: Manufacturing of RCC Pipes (42", 24", and 9") in progress. Laying of sub base, cutting and filling of inner road in progress. Laying of sewerage, Manholes, Culverts in progress. Progress is 54.0% against 100.0%
- **MDR-27 (Tenders for construction of roads including water supply and sewerage works in small town near Dudial and Siakh)** Contract was awarded to M/s KKP on 13 November, 2006. *Dudial Town:* Water Supply and Sewerage work is in progress. *Siakh Town:* Brick work on pump house in progress. Progress is 24.0% against 100%.

- **MDR-28 (Contract for Construction of public buildings in New City (Package-I))** awarded to M/s Sheikh Javed Ahmed Engineers & Contractors on Feb 21, 2006. Construction of public buildings in Sectors A, B, F and City Center including Mosques and Allied Residences, Shopping Centers and Primary & Secondary Schools are in progress. Progress is 45.0% against 100%.
- **MDR-29 (Contract of public building in New City (Package-II))** awarded to M/s Sheikh Javed Ahmed Engineers & Contractors on March 24, 2007. Construction of Hospital and Degree College (Male) remained in progress. General excavation upto PGL of Degree College (Female) in progress. General excavation of Basic Health unit in Sector F completed. Progress is 32.50% against 100.0%.
- **MDR-32 (Contract for Water Supply Intake works transmission main and Distribution main for New City)** Contract awarded to Friends Engineering Company on 17 May 2006. Cement mortar lining for all the pipes of Transmission Main has been completed. Trench excavation, laying of pipes, welding of pipes has also been completed. Installation of 3 Pumps, 1 Transformer has been completed at jari outlet. Installation of D.G.SET has been completed; installation of suction and discharge header at Jari pump house completed. Excavation/concrete for thrust block of Transmission main is in progress. Installation of washout, air vent and bypass has been completed. Progress is 57.0% against 100%.
- **MDR-33 (Tenders of Water treatment plant)** Contract awarded to M/s DESCON on 28.08.2006. Concrete work for Aerator, Chemical building, Chlorination building, office Control building, Generator Room has been completed. Concrete work for filter unit is in progress. Masonry works and Plaster works of Chemical Building and Office Control Building has been completed. Construction of Box culvert under Access road and Sewerage tanks and installation of RCC pipes completed. Construction of Access road is in progress. Progress is 73.50% against 100%.
- **MDR-34 (Sewerage trunks and sewerage treatment plant for New City).** Structural work of grit channel, wet well and generator room of lift station no 1 & 2 has been completed whereas construction of over flow chamber, access road, boundary wall and electrical/mechanical works such as fixation of railing on grit channel, sluice gates, screens, installation of pumping machinery/generators, interconnecting piping including force main is pending. Grit channel, distribution chamber A1 & A2, oxidation ditches, sludge drying beds (28 No), office control building, chlorination building, generator room, transformer room, guard room, diversion of nullah, box culvert on diverted nullah and access/internal roads upto sub grade level has been completed. The activity of construction of clarifier (04 nos) and remaining sludge drying beds (03 Nos) is in progress. Grit channels, box culvert, inter connection structure 1 and maintenance building of STP-2 has been completed whereas formation of embankment for anaerobic and facultative ponds, back filling for box culvert is in progress. The activity of laying of RCC sewer pipes is in practice since 26th Dec 2008, trunk

sewer line T-5 has been produced so far whereas the same activity for construction of trunk sewer line T-3 and T-6 is in progress. Progress is 75.0% against 100%.

- **MDR-35 Public Buildings in Small Towns near Islamgarh and Chaksawari.** *Islamgarh Town:* RCC for roof slab of Police station in progress. Brick masonry and RCC for lintel beam of Mosque is in progress. Concrete flooring for Imam, Muezzin and khadim, Basic Health unit completed. Concrete of footing of Girls High School in progress. *Chaksawari Town:* Brick masonry for post office and police station in progress. Brick work in public toilets in progress. Pcc Foundation and brick work for Basic Health Unit is in progress. Progress is 18.20% against 100%.
- **MDR-36 Construction of Public Buildings in Small Towns near Dudial & Siakh.** *Dudial Town:* Dudial Town: Concrete work of footing of Vocational Training School. *Siakh Town:* Lean Concrete for shopping centre is in progress.. Progress is 12.80% against 100%.
- **MDR-37 Electrification in New City.** 46, 14 and 55 No of road crossing have been laid in Sector A, B and F respectively. 101 Nos. Street Light Pole foundations have been laid. 122 Nos Distribution Box has been concreted. 500m, 667m and 166m of 4 core 25mm², 120mm² and 185mm² respectively have been laid. Progress is 17.0% against 60.0%.
- **MDR-38 Electrification in Four Small towns near Islamgarh, Chaksawari, Dudial and Siakh.** Out of 359 poles, 204 poles have been concreted at Islamgarh site. 140 out of 199 poles have been concreted so far at Siakh site. No work during the month. Progress is 28.0% against 100%.

PAYMENT OF LAND COMPENSATION

Up-to-date progress in this regard is given here as under:

- Awarded 147 Mouzas for payment of compensation.
- Awarded compensation for 147 Mouzas is Rs. 38.74 Billion
- Disbursement made so far by GoAJK is Rs. 34.39 Billion
- Amount transferred to GoAJK by WAPDA todate is Rs. 45.59 Billion.

PAYMENT TO OLD AFFECTEES

Up dated progress is given here as under:

- Record verification of all 168 villages has been completed.
- Ground verification of all villages has been completed.
- Verified eligible affectees for compensation are 10,246 in number.
- Disbursement made Rs. 1648.45 Million

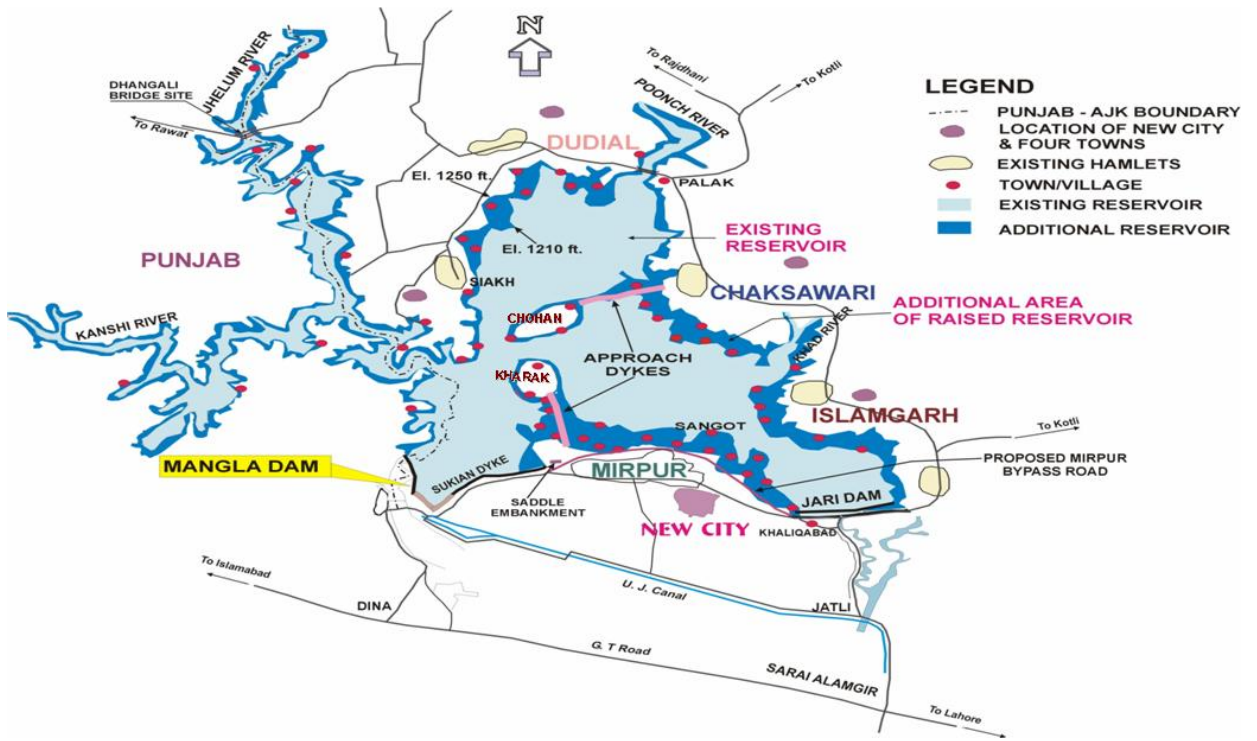
Affectees	3,205 Nos.
Legal Heirs	34,617 Nos.

Allotment of Plots – New City And Four Towns

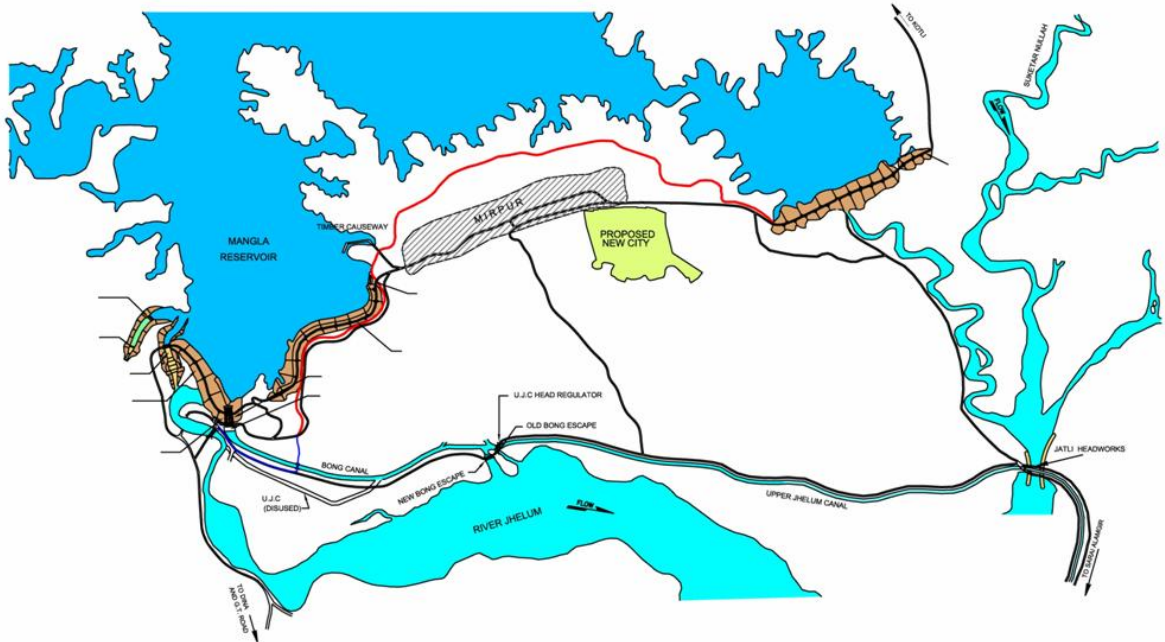
- Award of Built-up Properties announced by the AJ&K for 14 out of 113 villages
- WAPDA has handed over 1390 developed plots to AJ&K (941 New City, 114 Islamgarh town, 204 Chaksawari town and 131 Dudial town) for allotment.
- Allotment Committee of GoAJK has completed allotment formalities for 812 five marla plots for affectees of five Muhajar Colonies namely, Khanpur Colony, Mera Bhurkey Colony, Balah Mera Colony, Khooh Colony and Choochan Street Colony. These Muhajar Colonies fall below El. 1210 ft. in Mirpur Sector. Issuance of following documents by the Joint Commissioner Mangla Dam Affairs to 812 affectees is in progress:
 - Certificate of Affectee and Allotment Order
 - Possession Letter
 - Compensation Cheque
- Process of physical possession of plots to the allottees by the Mangla Dam Housing Authority was started on 6th March 2009. So far, 39 allottees have obtained physical possession.

❖ Overall Physical Progress upto April 30, 2009	84.50% against 96.50%
❖ Financial Progress as per PC-I (original)	108.23% against 130.0%
❖ Financial Progress as per PC-I (Revised)	66.75% against 78.11%

MANGLA RESERVOIR



PROJECT LAYOUT





Main Dam: Filling Works are in Progress



Intake Toe Weight on Upstream of Intake Embankment: Under-Water Filling is in Progress



General View of Main Spillway



Jari Dam: Filling Works are in Progress