



WATER AND POWER DEVELOPMENT AUTHORITY

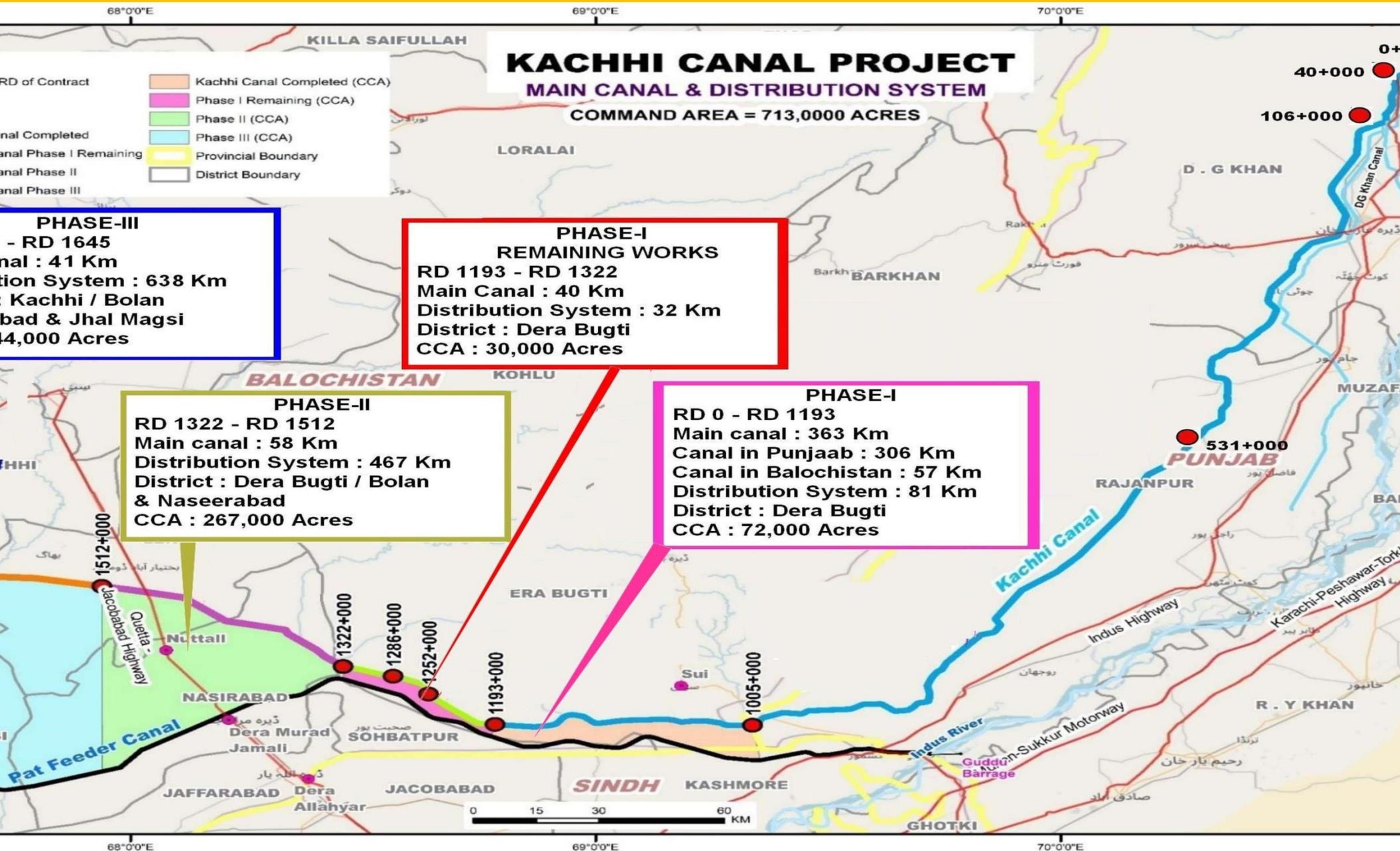


KACHHI CANAL PROJECT

21st AUGUST, 2023

KACHHI CANAL PROJECT (PHASE-I) FROM RD 0 TO RD 119

PROJECT LOCATION PLAN



KACHHI CANAL PROJECT

MAIN CANAL & DISTRIBUTION SYSTEM

Command Area = 713,000 Acres

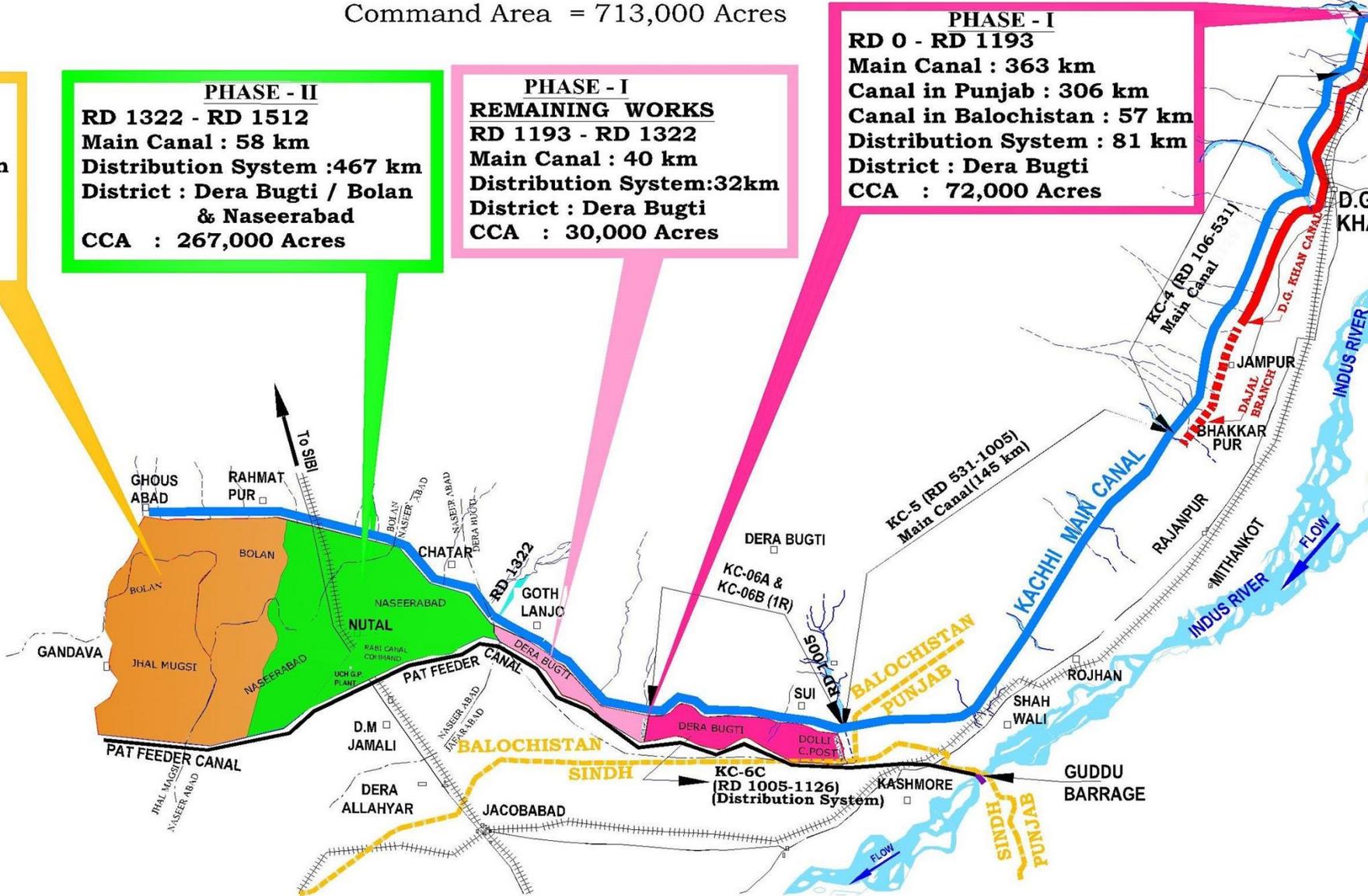
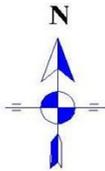
KC-3 (RD 0-20) - (6 km)
 KC-1 (RD 20-40) - (6 km)
 KC-2 (RD 40-106) - (20 km)

PHASE - III
 RD 1512 - RD 1645
 Canal : 41 km
 Distribution System : 638 km
 District : Kachhi / Bolan
 Naseerabad &
 Jhal Magsi
 CCA : 344,000 Acres

PHASE - II
 RD 1322 - RD 1512
 Main Canal : 58 km
 Distribution System : 467 km
 District : Dera Bugti / Bolan
 & Naseerabad
 CCA : 267,000 Acres

PHASE - I
REMAINING WORKS
 RD 1193 - RD 1322
 Main Canal : 40 km
 Distribution System : 32 km
 District : Dera Bugti
 CCA : 30,000 Acres

PHASE - I
 RD 0 - RD 1193
 Main Canal : 363 km
 Canal in Punjab : 306 km
 Canal in Balochistan : 57 km
 Distribution System : 81 km
 District : Dera Bugti
 CCA : 72,000 Acres



INTRODUCTION

Kachhi Canal off takes from Taunsa Barrage on Indus River and passes through Districts Muzaffargarh, Dera Ghazi Khan, Rajanpur in Punjab and Districts Dera Ismael Khan, Dera Ghauspur, Dera Naseerabad, Bolan & Jhal Magsi in Balochistan

The objective of the Project is to develop 713,000 acres fertile land of Balochistan

Proposed development in three Phases is as under:

Dera Bugti	72,000 Acres (Phase-I)
Dera Bugti Phase-I)	30,000 Acres (Remaining)
Dera Bugti, Naseerabad & Bolan	267,000 Acres (Phase-II)
Naseerabad, Bolan & Jhal Magsi	344,000 Acres (Phase-III)

Presently Phase-I is under implementation

SALIENT FEATURES OF PHASE-I (COMPLETED PORTION)

Length of Main Canal	363 Km (RD 0 to RD 1193)
Distribution System	81 Km District Dera Bugti
Design Capacity	6,000 Cusecs
Command Area	72,000 acres
Revised PC-I	Rs. 80,352 Million
Date of Commencement	04.10.2002
Date of Completion	31.12.2023 (Revised)
Allocation FY 2023-24	Rs. 500 Million
Expenditure to date	Rs. 78,716 Million
Physical Progress (Overall)	99.97%
Financial Progress	97.96%
Contract KC-04B(R)	Completed (DLC issued on 15.12.2022)
Contract KC-04(R)	Substantially Completed (ToC issued on 31.12.2022)
Consultants	M/s NESPAK-NDC-ACE-BARQAAB (JV)

IMPLEMENTATION STATUS

APDA completed 363 Km lined canal and 81 Km lined Distributaries and made operational by releasing water on 31.08.2017.

All Contracts from RD 0 to RD 1193 have been completed in all respect.

The remedial/outstanding works of 02 No. Contracts KC-04 & KC-04B have been substantially completed at the risk and cost of defaulted Contractor and statement of completion and Final account is under process with the Engineer.

The Irrigation Department, GoB has taken over the completed portion of Main Canal from RD 05 to RD 1183 and allied Distribution System (Balochistan Portion) on 31.03.2021.

COMMAND AREA DEVELOPMENT AND MONETARY BENEFITS

Command Area of 72,000 acres under Phase-I is responsibility of Agriculture Department, Government of Balochistan.

So far Command Area of 57,000 acres has been developed.

Since 2017, the following area was brought under cultivation and financial/monetary benefits (Rabi & Kharif seasons) are as under:

Year	Area under Cultivation (Acres)	Financial/Monetary Benefits (Rs. in Million)
2017-18	7000	128
2018-19	10,000	185
2019-20	25,000	950
2020-21	35,000	1,600
2021-22	55,000	3,600

FLOOD DAMAGES - 2022

Torrents originating from Koh-e-Suleman ranges severally damaged/breached

Kachhi Canal at various locations in between from RD 0 to RD 1193

Nos. cuts / breaches have been occurred

C lining, 05 No. Cross Drainage Structures constructed over Kachhi Canal

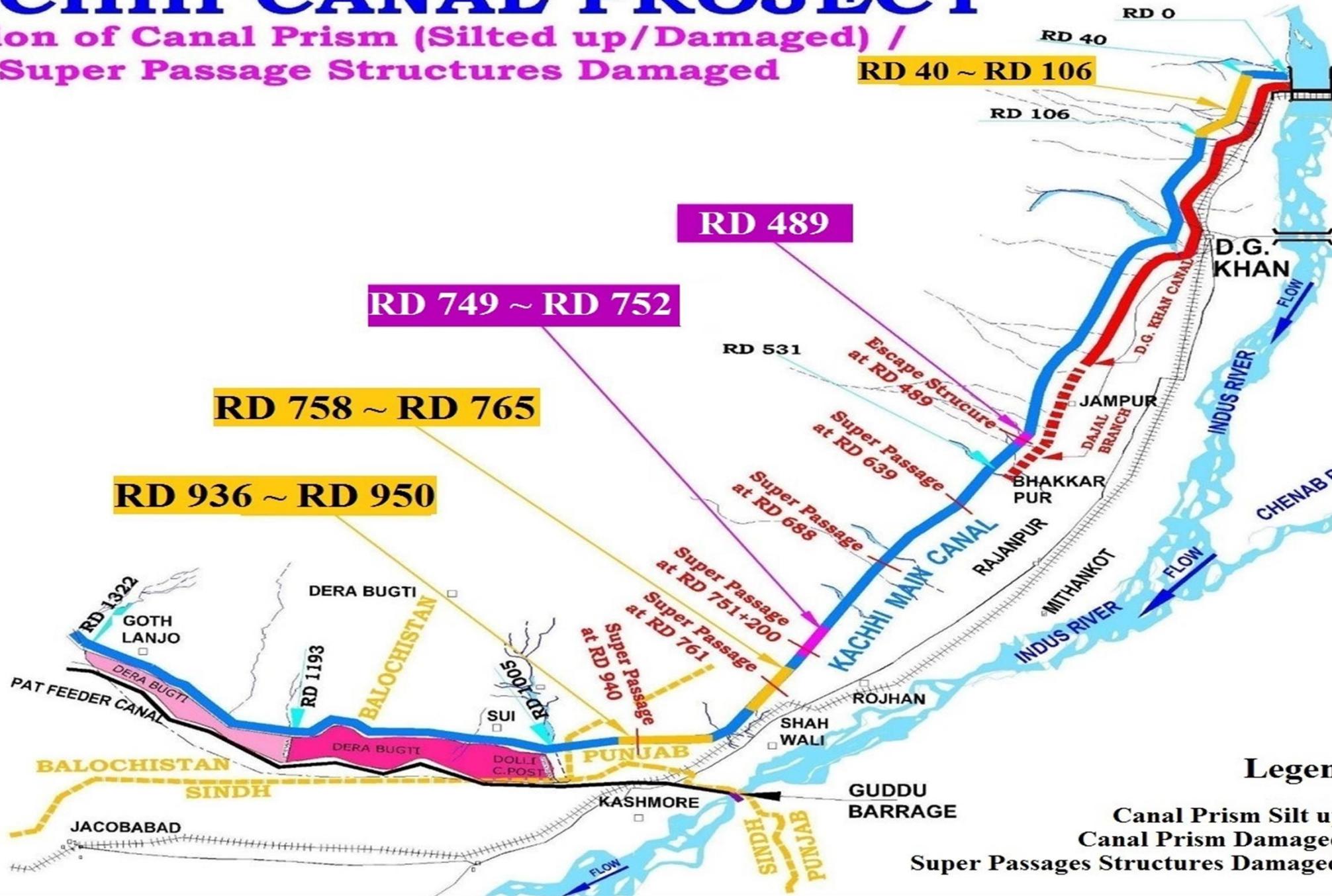
to sustained damages

due to flood flows, huge quantity of silt has been deposited in the canal prism

Canal is non-operational since July-2022

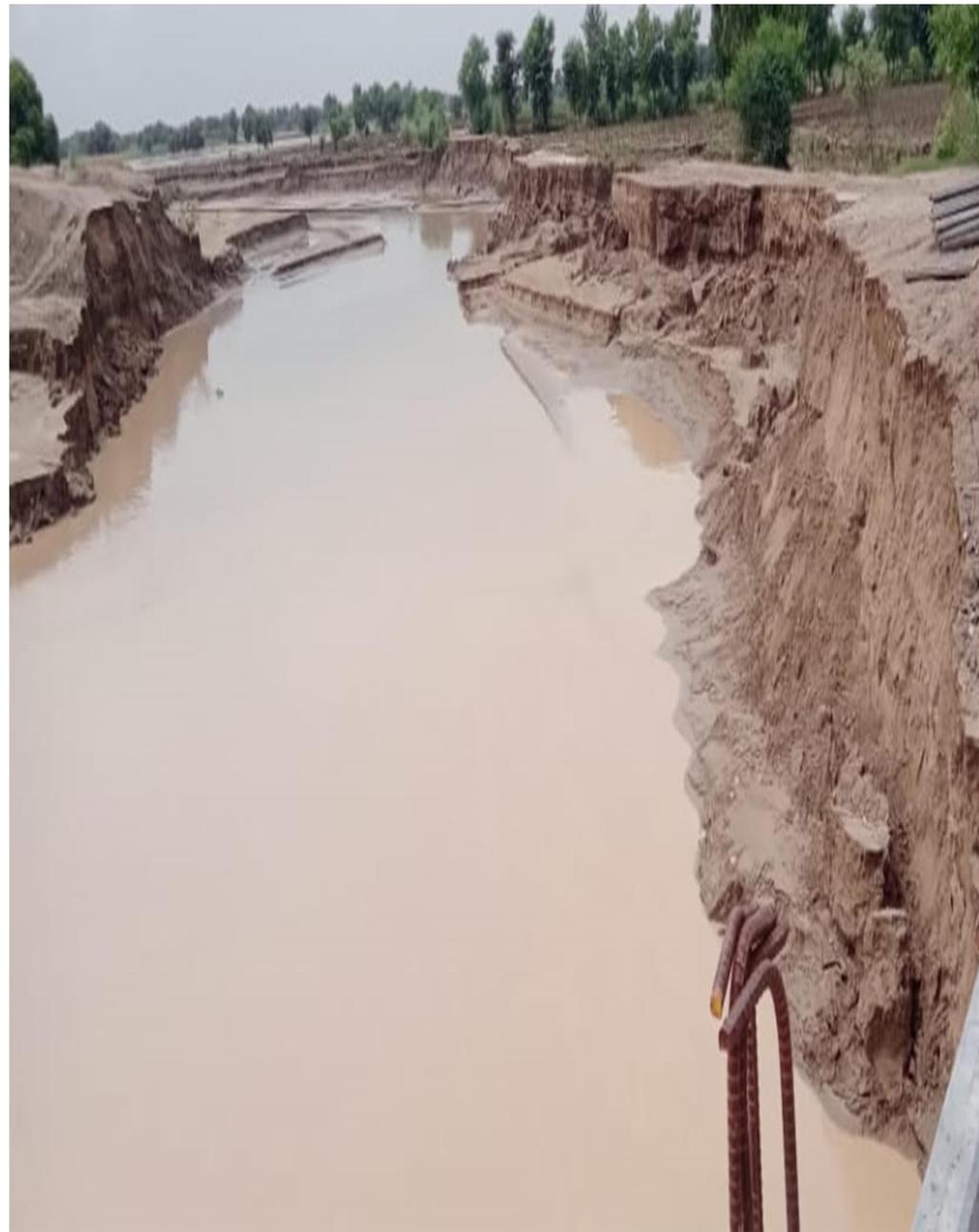
ACHHI CANAL PROJECT

Restoration of Canal Prism (Silted up/Damaged) /
Super Passage Structures Damaged





Breach at RD 110± R/S



Breach at RD 317± R/S



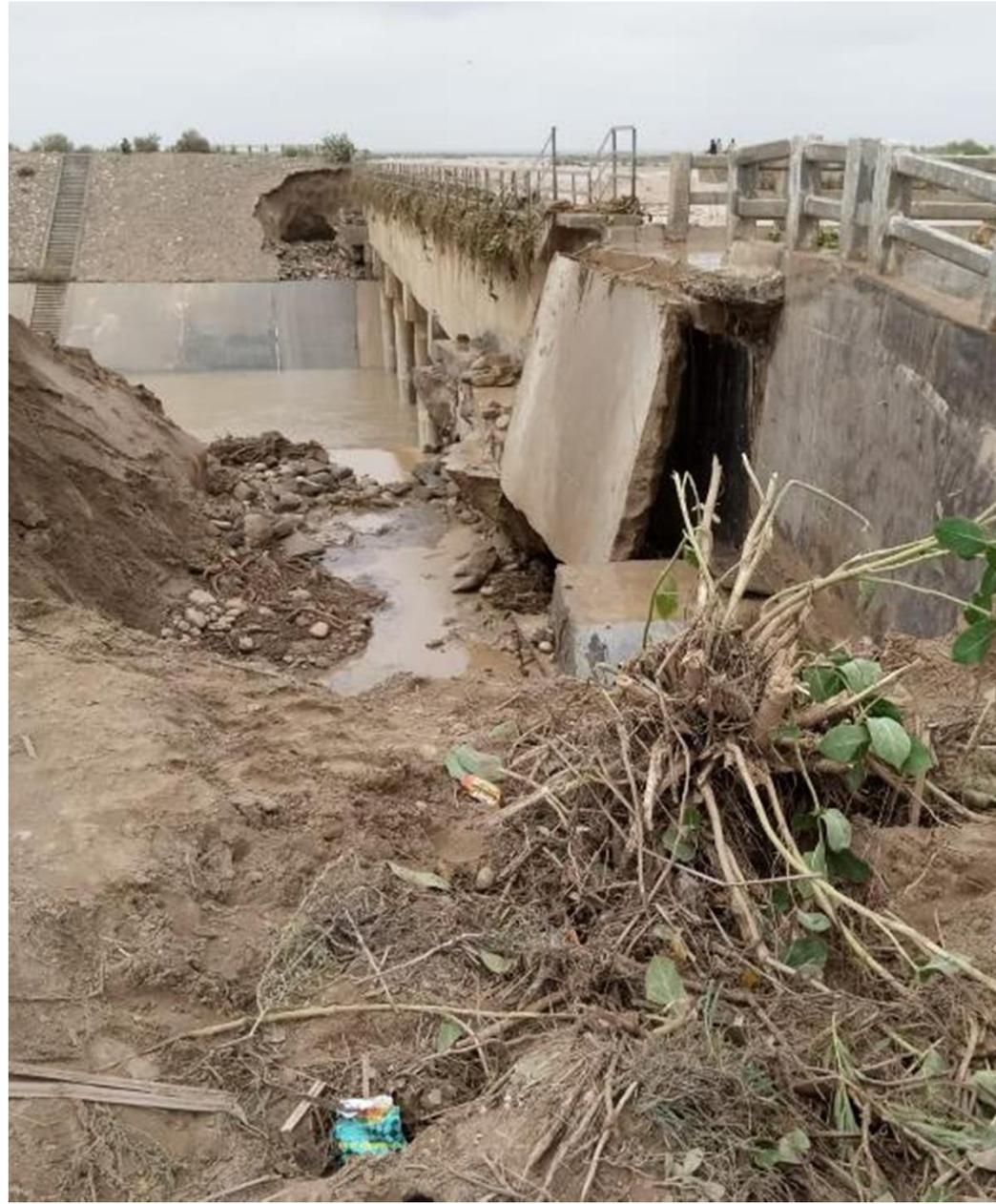
RD 489± Escape Structure



Flood Cut at RD 504± R/S



Full Prism damaged at RD 749 to RD 752



Approach Slabs Damaged at RD 761

STATUS OF FLOOD DAMAGES – 2022

amounting to Rs. 8,280.647 Million approved by ECNEC on 26.06.2023. Authorization of project has been accorded by MoPD&SI on 20.07.2023.

Administrative Approval issued by MoWR, GoP on 31.07.2023.

PF funds amounting to Rs. 1,000 Million has been allocated in FY:2023-24.

Procurement process initiated and bids shall be opened on 04.09.2023.

Time required for Restoration is 18 Months.

Implementation period of PC-I is 36 months.

REMAINING WORKS OF (PHASE-I) FROM RD 1193 to RD 132

SALIENT FEATURES OF REMAINING WORKS (PHASE-I)

Final PC-I	Rs. 22,921 Million (Approved by ECNEC 16.03.2023)
Command Area	30,000 Acres (District Dera Bugti)
Length of Main Canal	40 Km
Distribution System	32 Km (District Dera Bugti)
Design Capacity	6,000 Cusecs
Completion Period	03 Years (June 30, 2023)
Extension of Implementation Period	30.06.2024 (Under process of approval by MoW)
CP Allocation FY:2023-24	Rs. 500 Million
Expenditure upto date	Rs. 21,371.729 Million
Physical Progress	95%
Financial Progress	93%
Consultants	M/s MMP-DMC (JV)
Outstanding Certified Liabilities	Rs. 3,554 Million

STATUS OF CONTRACTS – REMAINING WORKS OF PHASE-I

CONTRACT KC-06B (2R) – RD 1193 to RD 1252 – (18 KM)

Contract Cost	Rs. 5,474.65 Million
Name of Contractor	M/s Ghulam Rasool & Co.
Date to Commence	26.03.2021
Length in Canal	18 Km
Distribution System	9.20 Km (05 No. Disty)
Original completion date	18.06.2022
Revised Completion date	30.09.2023 (Due to procurement of UCH Gas Pipelin
Physical Progress	96.50%
Certified Pending Liabilities	Rs. 1,211 Million

STATUS OF CONTRACTS – REMAINING WORKS OF PHASE-I

CONTRACT KC-06B (3R) – RD 1252 to RD 1286 – (11 KM)

Contract Cost	Rs. 7,429.20 Million
Name of Contractor	M/s Ghulam Rasool & Co.- KDC (JV)
Length in Canal	11 Km
Contribution System	11.80 Km (01 No Disty & 03 No Minors)
Contract Commence	31.05.2021
Original Completion date	31.08.2022
Revised Completion date	30.09.2023 (Due to procurement of UCH Gas Pipelin
Physical Progress	89%
Certified pending liabilities	Rs. 1,243 Million

STATUS OF CONTRACTS – REMAINING WORKS OF PHASE-I

CONTRACT KC-06B (4R) – RD 1286 to RD 1322 – (11 Km)

Contract Cost	Rs. 6,600 Million
Name of Contractor	M/s Ramzan & Sons Pvt Ltd - SWEG (JV)
Canal	11 Km
Distribution System	12.70 Km (04 No. Disty)
Date to Commence	31.05.2021
Final Completion date	31.08.2022
Proposed Completion date	21.11.2022
Physical Progress	99.85% Substantially Completed (ToC issued w.e.f 21.11.2022)
Guaranteed pending liabilities	Rs 1,100 Million

WAY FORWARD

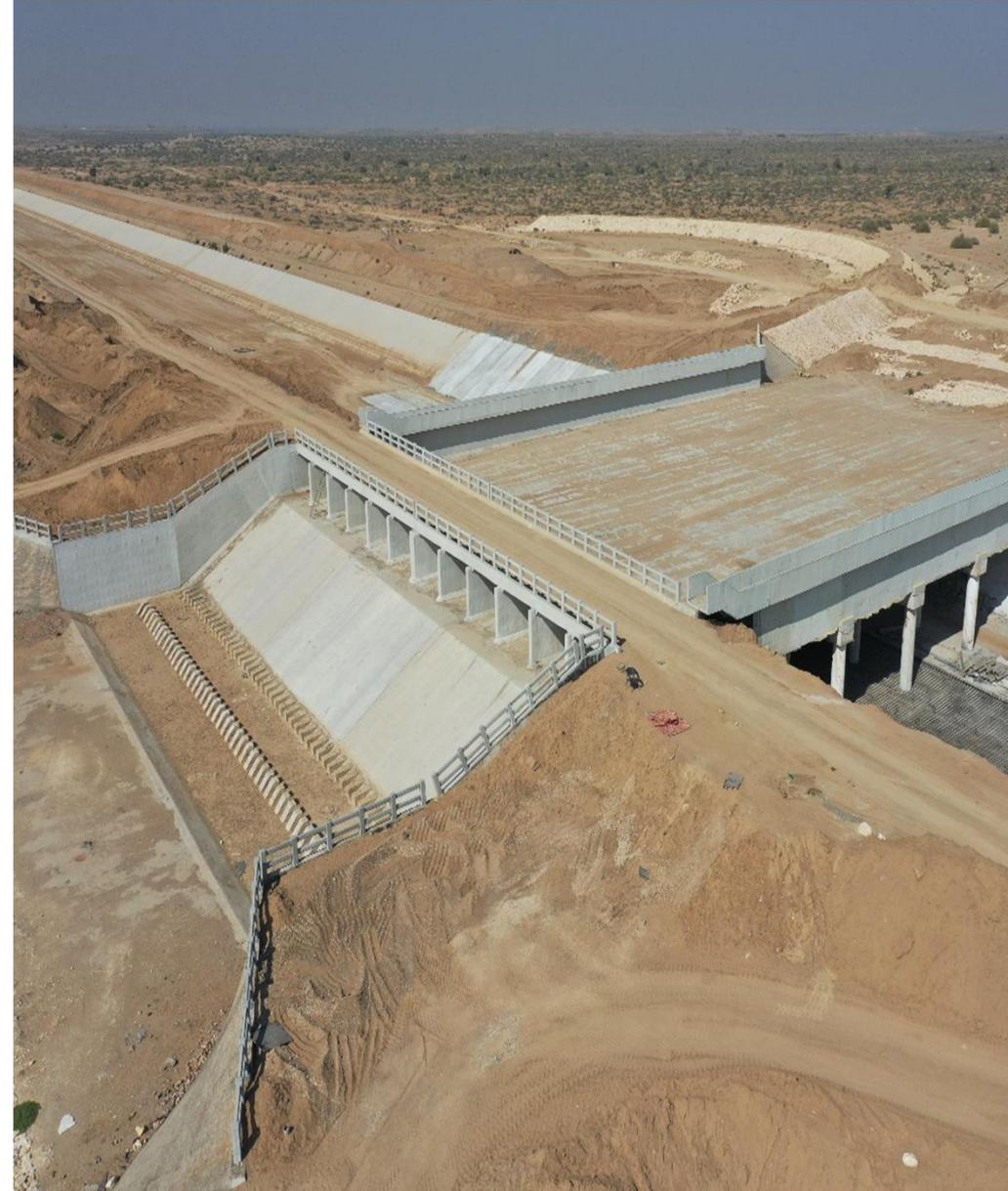
Revised PC-I amounting to Rs. 38,542 million submitted to MoW
03.2023 for seeking approval of competent forum.

Arrangement of funds for clearing the certified outstanding liabilities of contract
and delayed charges and completion of project, so that the accrue benefits
achieved.

CONTRACT # KC-06B (2R) FROM RD 1193 TO 1252



VR Bridge at RD 1206



Super Passage RD 1230+144

CONTRACT # KC-06B (2R) FROM RD 1193 TO 1252



Main Canal Lining RD 1231 - 1239



Cross Regulator cum Escape Structure RD

CONTRACT # KC-06B (3R) FROM RD 1252 TO RD 1286



Cross Regulator at RD 1254+758



Main Canal Lining RD 1253 - 1254

CONTRACT # KC-06B (3R) FROM RD 1252 TO RD 1286



Excavation in progress RD 1272 - 1273



Super Passage RD 1274

CONTRACT KC-06B (4R) FROM RD 1286 TO 1322



Canal Lining RD 1304 to RD 1320



Super Passage Structure RD 1288+45

CONTRACT KC-06B (4R) FROM RD 1286 TO 1322



Syphon Structure RD 1305



X-Regulator at RD 1319+176

