

Environmental Monitoring Report

PUBLIC

Project No. 56312-001
Loan No. 4279
Semestral Report (July – December 2023)
May 2024

Pakistan: Emergency Flood Assistance Project

Prepared by Project Management Office (PMO), Irrigation Department, Government of Khyber Pakhtunkhwa, for the Islamic Republic of Pakistan and the Asian Development Bank (ADB).

NOTES

- (i) The fiscal year (FY) of the Government of the Islamic Republic of Pakistan and its agencies ends on 30 June.
- (ii) In this report “\$” refers to US dollars.

This environmental monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or Staff, and may be preliminary in nature. Your attention is directed to the “terms of use” section of ADB's website.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, ADB does not intend to make any judgments as to the legal or other status of any territory or area.

Table of Contents

1	Introduction	1
1.1	Preamble	1
1.2	Headline Information	1
2	Project Description and Current Activities	3
2.1	Project Description.....	3
2.2	Project Contracts and Management	8
2.3	Project Work Details.....	9
2.3.1	Retroactive Works Details	9
2.3.2	Repair and Rehabilitation Works Details	9
2.4	PMC Activities during Reporting Period.....	10
2.4.1	Site Visits and E&S Safeguard Documentation Works on Retroactive Schemes...	10
2.4.2	Meetings with the Stakeholders	10
2.4.3	E&S Progress on Restoration and Repair Works	11
2.5	Description of Any Changes to Project Design	15
2.6	Description of Any Changes to Agreed Construction methods	15
3	Environmental AND Social Safeguard Activities	16
3.1	General Description of Environmental and Social Safeguard Activities	16
3.2	ADB and KP-EPA Requirements	16
3.3	Site Audits/Inspections	16
3.4	Issues Tracking (Based on Non-Conformance Notices)	16
3.5	Trends.....	16
3.6	Unanticipated Environmental Impacts or Risks	16
4	Results of Environmental and Social Monitoring.....	18

4.1	Overview of Monitoring Conducted during Current Period	18
4.2	Trends.....	18
4.3	Summary of Monitoring Outcomes.....	18
4.4	Material Resources Utilisation	18
4.4.1	Current Period	18
4.4.2	Cumulative Resource Utilisation	18
4.5	Waste Management	18
4.5.1	Current Period	18
4.5.2	Cumulative Waste Generation	18
4.6	Health and Safety	18
4.6.1	Community Health and Safety	18
4.6.2	Worker Safety and Health	18
4.7	Training	18
5	Functioning of the SSESMP	19
5.1	SSESMP Review	19
6	Good Practice and Opportunity for Improvement.....	20
6.1	Good Practice	20
6.2	Opportunities for Improvement.....	20
7	Grievance Redress Mechanism (GRM)	21
7.1	Objectives	21
7.2	Type of Complaints	21
7.3	Disclosure of GRM	21
7.4	Structure of Grievance Redress Mechanism	22
7.4.1	Community GRC (Tier-1)	22
7.4.2	Sub-Project GRC (Tier-2).....	22
7.4.3	PMO-GRC (Tier-3).....	23
8	Summary and Recommendations.....	25
8.1	Summary	25
8.2	Recommendations	25

List of FIGURES

Figure 1: Area wise Package Distribution.....	1
Figure 2: Map showing Locations under Different Schemes under Restoration Works	6
Figure 3: Map showing Locations under Different Packages of Repair and Rehabilitation Works	7
Figure 4: Organogram of GRC	24

List of TABLES

Table 1: Key Project Stakeholders and Their Contacts	8
Table 2: Progress of EFAP Project.....	11

List of ANNEXURES

Annexure I: Summary of Retroactive Schemes	27
Annexure II: Summary of Sub-Project Packages.....	29

Abbreviations

ADB	Asian Development Bank
ID	Irrigation Department
DED	Detailed Engineering Design
DPD	Deputy Project Director
EFAP	Emergency Flood Assistance Project
EMP	Environmental Management Plan
EMR	Environmental Management Report
GRM	Grievance Redress Mechanism
HSE	Health Safety and Environment
IA	Implementation Agency
IEE	Initial Environmental Examination
PD	Project Director
PDNA	Post-Disaster Needs Assessment
PMC	Project Management Consultants
PMO	Project Management Office
REA	Rapid Environment Assessment
SAEMR	Semi-annual Environmental Monitoring Report
SDDR	Social Due Diligence Report
SSEMP	Site Specific Environmental Management Plan
UN	United Nations
TA	Technical Assistance
ToRs	Terms of Reference

1 INTRODUCTION

1.1 Preamble

1. This report represents the Semi - Annual Environmental Monitoring Report (SAEMR) for Emergency Flood Assistance Project (Khyber Pakhtunkhwa Irrigation Department Component).
2. This report is the 1st SAEMR covering the period of (July to December 2023).

1.2 Headline Information

3. Khyber Pakhtunkhwa component of Emergency Flood Assistance Project will be implemented in six (06) irrigation circles of Khyber Pakhtunkhwa Province. The proposed project comprises of one hundred and forty-three (143) sub-projects located in south and north regions of Khyber Pakhtunkhwa. The area- wise package distribution is given in the pie chart below (**Figure 1**). The priority of the work packages is identified with the consent of client.

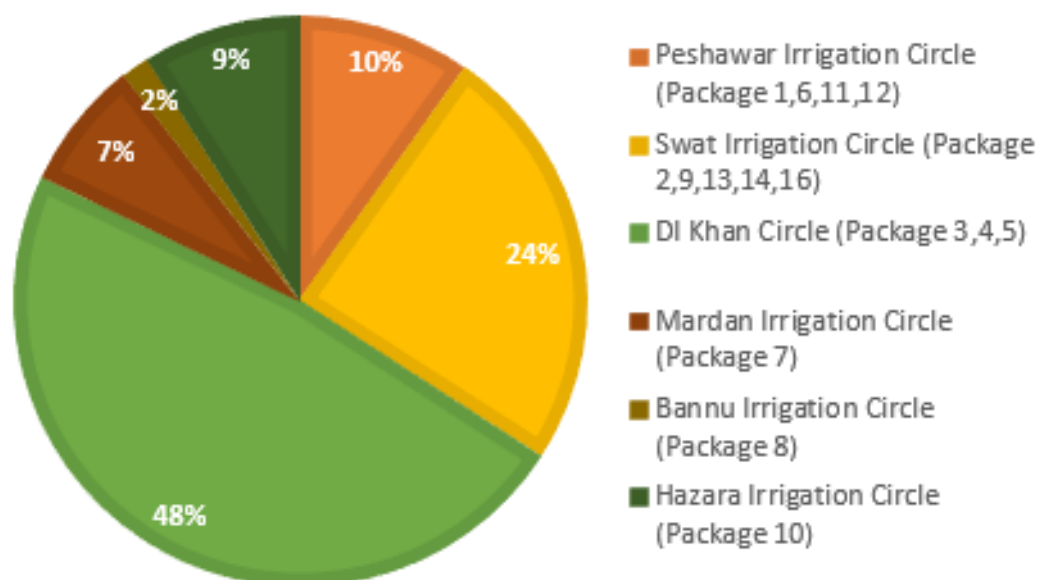


Figure 1: Area wise Package Distribution

4. These sub-projects have been identified to be taken up under the project on priority basis including seventy-nine (79) irrigation and drainage structures, sixty-four (64) flood management infrastructures, and strengthening/re-sectioning of various protection embankments. For the ease of design and implementations, the project has been divided into the Packages and sub-projects (schemes). To cover the South and North regions of Khyber Pakhtunkhwa, the project has been divided into 16 packages. Out of these 16 packages, 9 packages are allocated for the south region (primarily consists of canals and drains) and 7 packages (mainly on flood protection works) are allocated for the north region.
5. The Contract Agreement between Khyber Pakhtunkhwa Irrigation Department and the Consultants was signed on April 07, 2023. As per SC Clause 13.1, effective date of the Consultancy Services is April 14, 2023. Meetings with the Client and ADB were done to present way forward and anticipated time and cost over-run risks. The first draft of

inception report covering the review of existing information, data, reports, surveys, studies, investigations, design reports and safeguards documents of the flood effected infrastructure was submitted at the end of June 2023. After June 2023, the work on retroactive and rehabilitation works was initiated by the consultants. Numbers of locations in south and north regions of Khyber Pakhtunkhwa had been identified to be taken up under the proposed project on priority basis for following two components:

- Retroactive (Restoration work) schemes; and
- Repair and Rehabilitation works.

6. The preparation of E&S safeguard documents as per the ADB's approved ESMF of the proposed project and ADB-SPS-2009 was initiated for the above two components.

2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

7. The Asian Development Bank (ADB) is partnering with the Government of Khyber Pakhtunkhwa Province to implement the Emergency Flood Assistance Project (EFAP), which includes sub-projects distributed throughout the Khyber Pakhtunkhwa province.
8. Pakistan is a flood prone country and one of the ten countries most affected by climate change in the world.¹ Flooding in Pakistan is primarily caused by heavy concentrated rainfall in the river catchments during the monsoon season which typically occurs from July through September. In the recent history, Pakistan witnessed unprecedented flooding in Khyber Pakhtunkhwa in 2010 and 2022. The occurrence of these flood events in have proved that the climate change has severely impacted our region. The flood of 2022 was as a result of prolonged intense monsoon subsequent to unprecedented heat wave during April-Jun 2022 followed by intense rains experienced across the country and exposed our ill-planning towards adopting the climate resilient designs for irrigation as well as road infrastructure.
9. The proposed EFAP was developed in response to the Government of Pakistan's request to the ADB on October 6, 2022, for assistance in responding to countrywide floods. EFAP is aimed at facilitating the economic recovery of flood-affected provinces, including Sindh, Baluchistan, and Khyber Pakhtunkhwa. It will fund the rehabilitation and reconstruction of high-priority infrastructure (irrigation, drainage, flood protection structures in
10. Khyber Pakhtunkhwa) that were weakened and damaged during the devastating floods. Additionally, EFAP will support the restoration of economic productivity and livelihoods for the rural populations affected by the floods.
11. A post-disaster needs assessment (PDNA)² - an effort led by the Government of Pakistan (GoP) and supported by a core team comprising ADB, the European Union, United Nations (UN) agencies, and the Japan International Cooperation Agency with facilitation from the United Nations Development Programme and the World Bank was concluded on 28 October 2022, which provides the bases for the development of a disaster recovery framework and arrangements for effective, efficient and coordinated post-flood recovery and reconstruction plan. ADB with the assistance from the financiers Japan Fund for Prosperous and Resilient Asia and the Pacific (JFPR) has proposed emergency assistance to GoP through the EFAP. GoP and ADB agreed on financing of the total EFAP at \$531 million of which Irrigation Department of Khyber Pakhtunkhwa component is about \$62 million.
12. The Khyber Pakhtunkhwa Irrigation Department (Project Management Office (PMO) of Pehur High Level Canal Extension Project) is the implementing agency (IA). Project Management Consultants (PMC) for detailed engineering design (DED) and

¹ D. Eckstein, V. Kunzel, and L. Schafer. 2021. *Global Climate Risk Index 2021: Who Suffers Most from Extreme Weather Events? Weather-Related Loss Events in 2019 and 2000–2019*

² Government of Pakistan, Ministry of Planning, Development & Special Initiatives. 2022. *Pakistan Floods 2022: Post-Disaster Needs Assessment*. Islamabad.

construction supervision will oversee all the sub-projects scattered throughout the province.

13. **Project Impact, Outcome and Output:** The overall EFAP is going to be an inclusive and resilient recovery from the 2022 floods. It will have the flood-affected infrastructure and livelihoods improved. These investments will help to rehabilitate / restore flood-damaged irrigation, drainage, and flood risk management infrastructure in Khyber Pakhtunkhwa and mitigate the risk of flood damage to crops, infrastructure, and communities.
14. It will strengthen, rehabilitate, and reconstruct priority irrigation structure including (i) diversions, (ii) storage, and conveyance systems, (iii) drainage channels, and (iv) flood risk management structures in and Khyber Pakhtunkhwa. Irrigation and flood risk management infrastructure will be upgraded and incorporate multi-hazard-resilient design and nature-based solutions.
15. **Key Features of the Project:** This project will strengthen, rehabilitate, and reconstruct priority irrigation and drainage infrastructure, and flood management structures in Khyber Pakhtunkhwa. Under the Khyber Pakhtunkhwa component, there are about 143 sub-projects including 79 irrigation and drainage structures and 64 flood management infrastructures, and strengthening/re-sectioning of various protection embankments in north and south regions.
16. To conclude the Khyber Pakhtunkhwa component of the EFAP within anticipated time and to avoid any delay and for improved management, the project has been divided into two major components:
 - Retroactive (Restoration work) schemes; and
 - Repair and Rehabilitation works.
17. In order to immediately restore the canal system in various areas of the province, 20 restoration/retroactive schemes of already existing infrastructure in 05 divisions of Khyber Pakhtunkhwa were recommended for immediate implementation those were found technically viable, economically feasible, environmentally and socially acceptable. Accordingly, procurement of these schemes was carried out by respective irrigation offices. Detail of which are as under:

Sr. No.	Irrigation Division	No. of Schemes	Estimated .Cost (millions)
1	Charsadda Irrigation Division	4	303
2	D I Khan (CRBC Irrigation Division)	7	118
3	Dir Irrigation Division	7	329
4	Swat Irrigation Division	1	79
5	Malakand Irrigation Division	1	100
Total		20	929

18. The location map of these scheme is shown in **Figure 2** and the summary of the scheme is provided in **Annexure-1**.
19. *Repair and Rehabilitation works* of EFAP project is divided into 16 Packages. Out of these 16 packages, 9 packages are allocated for the south region and 7 packages are allocated for the north region.

- South region primarily consists of canals and drains, including major canal systems.
 - On the other hand, the focus in the north region is mainly on flood protection works (FPWs).
20. The summary of the packages is provided in **Annexure-2** and location shown in **Figure 3**.



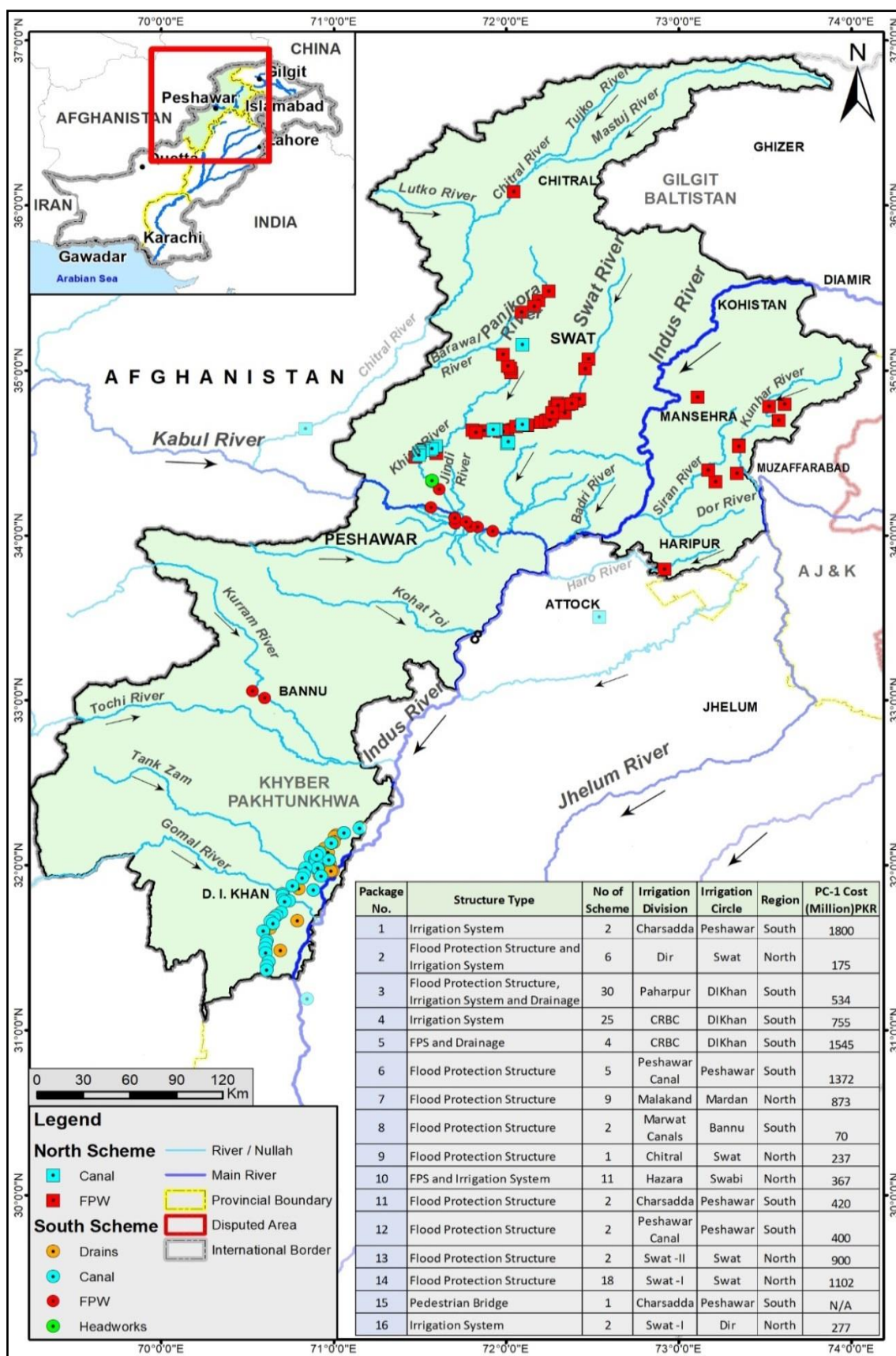


Figure 3: Map showing Locations under Different Packages of Repair and Rehabilitation Works

2.2 Project Contracts and Management

21. The Government of Khyber Pakhtunkhwa, through the Irrigation Department, serves as the executing agency for the project, while the Project Management Office (PMO) acts as the implementing agency.
22. The Project Management Office (PMO), already established in Swabi for the ADB funded Pehur High Level Canal Extension Project, will oversee the overall project implementation and coordination of EFAP. This arrangement was jointly agreed upon between the borrower and ADB and is in accordance with the policies and procedures of both the GoP and ADB.
23. The Contract Agreement between Khyber Pakhtunkhwa Irrigation Department and the Consultants was signed on April 07, 2023. As per SC Clause 13.1, effective date of the Consultancy Services is April 14, 2023 for detailed engineering design (DED) and construction supervision of all the sub-projects scattered throughout the province.
24. **Table 1** provides the environmental and social safeguard teams for this project along with their respective roles.

Table 1: Key Project Stakeholders and Their Contacts

Organization	Discipline/ Designation	Deployed Team	Email Id
PMO	Project Director(PD)	Sardar Zafar	efapirrigation@gmail.com sardarzafar68@yahoo.com
	Deputy Director (Focal Person- Environment)	Dr. Ubaid Ur Rehman	ubaid.nature@gmail.com
ADB	Environment Specialist	Syed Asim Ali Sabzwari	asabzwari@adb.org
	Environment Specialist (Consultant)	Abdul Hadi	ahadi.consultant@adb.org
NESPAK	Team Leader	Nasir Khan Afridi	nafridi1969@yahoo.com
	Environment and Social Specialist	Muhammad Shariq Ahmed	scharique@hotmail.com shariqpe@gmail.com
	Environmental Engineer	Muhammad Fahad Saleem	fsaleem660@gmail.com
	Social Specialist	Wasim Abbas	wasimabbasnaqvi@yahoo.com

25. To meet ADB safeguards requirements, the PMO has support consultants responsible for implementing environmental and social safeguards policies. The Deputy Director Environment of the PMO serves as the focal person for Environmental and Social Safeguards. A team of PMO support consultants, including an Environmental Specialist and Social Safeguard Specialist, is in place to assist the DD-Environment in the smooth

and timely preparation and implementation of the Rapid Environment Assessment (REA), Involuntary Resettlement (IR) and Indigenous Peoples (IP) checklists, Social Due Diligence Report (SDDR) and Environmental Management Plan (EMP) / Initial Environmental Examinations (IEE). This team is responsible for ensuring the timely submission of Site-Specific Environmental Management Plans (SSEMPs) by contractors, reviewing these SSEMPs for compliance with environmental safeguards requirements, conducting environmental and social monitoring at construction sites, screening, performing due diligence, and reviewing monthly monitoring reports submitted by contractor and consultants, among other tasks.

26. At the field level, positions for environmental staff will be included in the bid documents. Contractors for all packages will be required to hire environmental officers/Health Safety and Environment (HSE) Officers, who will be stationed at the construction site and responsible for preparing SSEMPs and implementing them accordingly. ADB is responsible for reviewing REA, IR, IP checklists, EMPs, IEEs, SDDRs, and SSEMPs, which are submitted by the PMO.

2.3 Project Work Details

2.3.1 Retroactive Works Details

Engineering and Technical Provisions:

27. The design and technical parameter of the existing infrastructure were kept intact, only restoration of these schemes was recommended to be carried out as per original design and drawings. No change in cross-section, raising etc. was permissible.

Project Activities:

28. The proposed scheme involved the restoration of banks around the disties at the breached areas, restoration of guide bank with stone pitching on slope and gabion apron, restoration of channels involves mud and debris clearance, transportation of material, earthworks, lining, filling and backfilling on slops, finishing work and clearance of leftover material due to recent floods.

Land and Other Issues:

29. The restoration work of the damaged water channel is being carried out within the existing ROW which was damaged due to flood. No land acquisition and resettlement is involved. There are no indigenous people in the sub-Project area. As the activities involve the restoration of banks around the water channels/carriers disties at the breached areas due to recent floods, therefore there are no adverse impacts on land acquisition, assets displacement and loss of Livelihood.

2.3.2 Repair and Rehabilitation Works Details

30. Major Construction work/activities for drains and disties will involve:
- Transportation of local construction material;
 - Restoration of distributary prism by brick/stone side protection;
 - Restoration of lining of distributary;

- Reconstruction of retaining walls;
 - Restoration and provision of new stone pitching;
 - Desilting and cleaning of drains (including Sakranda and Debris);
 - Distributary bank restoration/raising; and
 - Rehabilitation of culverts etc.
31. Major construction works/activities involves in protection works:
- Transportation of material for construction of Gabion Wall;
 - Foundation preparation;
 - Gabion Basket Assembly;
 - Gabion filling;
 - Drainage consideration for Gabion Walls; and
 - Provision of Free Drainage Granular Backfill
32. The work is being carried out within the existing ROW which was damaged due to flood. No land acquisition and resettlement is involved.

2.4 PMC Activities during Reporting Period

33. The PMC were mobilized were mobilized on April 14, 2023. The following activities were conducted during the reporting period from July to December 2023.

2.4.1 Site Visits and E&S Safeguard Documentation Works on Retroactive Schemes

34. The PMC offices are situated in Lahore and Peshawar Offices. The Consultants' project team responsible for the Detailed Design of the project is led by a Team Leader stationed in the Lahore office. Specialists assigned to work on the detailed design of structures will also be located in Lahore, Peshawar and in the field for data collection and investigations. All other key staff for the design phase of the project have been mobilized. Teams for topographic survey, geotechnical and geological investigations, environment and social assessment are prioritizing for site identification and finalization of schemes.

2.4.2 Meetings with the Stakeholders

35. E&S team of NESPAK participated in two meetings in August 2023.

Meeting on 08 August at Swabi PMO Office

36. Progress on E&S Retroactive scheme was discussed between PD, E&S Specialists of PMO, ADB E&S Specialists and NESPAK team. Format of REA, IP and IR Checklists were discussed.

Meeting on 22 August at Swabi PMO Office

37. Progress on E&S Rehabilitation and Restoration priority scheme was discussed between PD, E&S Specialists of PMO, ADB E&S Specialists and NESPAK team.

Format of Project Characterization Document, REA, IP and IR and Social Due Diligence were discussed. Deadlines for priority works was also committed among the members.

2.4.3 **E&S Progress on Restoration and Repair Works**

38. Package wise progress on E&S Safeguard document for complete EFAP Project is provided below:

Table 2: Progress of EFAP Project

Sr. No.	Package	Progress
1.	Retroactive Schemes (20 small schemes in 05 districts) (Category C Project w.r.t REA, IR and IP)	- Detailed REA, IR and IP Screening Checklists are completed and submitted for each 20 schemes separately. - After submission of above checklists, revised format of the checklists were shared by ADB to revise the submitted REA, IR and IP Screening Checklists - Revised the detailed REA, IR and IP Screening Checklists has been completed and submitted for each 20 schemes separately - Consolidated EMP of Retroactive Schemes has been completed and submitted
2.	Package 15: Munda Headwork Rehabilitation Works (Category C Project w.r.t REA, IR and IP)	- REA, IR and IP Screening Checklists were completed and submitted - EMP and Social Due Diligence were completed and Submitted - After change in design, REA, IR and IP Screening Checklists and Detailed Project Categorization Brief Report along with EMP and Social Due Diligence are in progress and will be submitted soon.
3.	Package 08: Rehabilitation/ Restoration of Flood Protection Works Lot-1: Bannu Irrigation Division; Lot-2 Marwat Canal Irrigation Division (Category C Project w.r.t REA, IR and IP)	- E&S Site Reconnaissance has been completed - Detailed Project Categorization Brief Report including REA, IR and IP Screening Checklists has been completed and submitted - After submission of above checklists, revised format of the checklists were shared by ADB to revise the submitted REA, IR and IP Screening Checklists - Revised the detailed REA, IR and IP Screening Checklists has been completed and submitted. - Consolidated EMP of Package 08 has been completed and submitted - Consolidated Social Due Diligence of Package 08 has been completed and submitted
4.	Package 04: Rehabilitation of Canals / Distributaries Works: Lot-1: CRBC Irrigation Division DI Khan (Category C Project w.r.t REA, IR and IP)	- E&S Site Reconnaissance has been completed - Detailed Project Categorization Brief Report including REA, IR and IP Screening Checklists has been completed and submitted

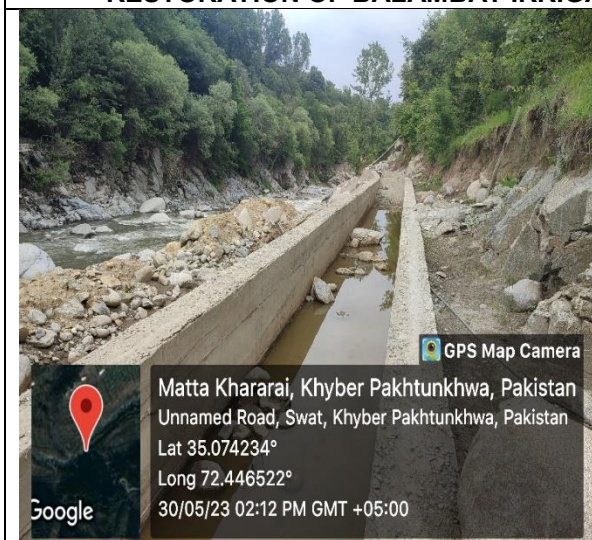
Sr. No.	Package	Progress
		- Consolidated EMP of Package 04 has been completed and submitted - Social Due Diligence of Package 04 has been completed and submitted
5.	Package 03: Repair and Rehabilitation of Canals and Drains, Pharpur Irrigation Division	- Site Reconnaissance has been completed however, E&S surveys are under progress - Work on Detailed Project Categorization Report has been initiated - Social Due Diligence of Package 03 is in process of completion
6.	Package 13 & 14: Repair and Rehabilitation of and Flood Protection Structures, Swat. Swat Irrigation Division-II & I	- Site Reconnaissance has been completed however, E&S surveys are under progress - Work on Detailed Project Categorization Report has been initiated

39. Some pictorial views of these site reconnaissance before retroactive activities is shown in below plates.





RESTORATION OF BALAMBAT IRRIGATION SCHEME IN DISTRICT DIR LOWER



RESTORATION OF SHAMIZAI & BARWAI IRRIGATION SCHEMES & ITS ALLIED INFRASTRUCTURE IN TEHSIL MATTA DISTRICT SWAT



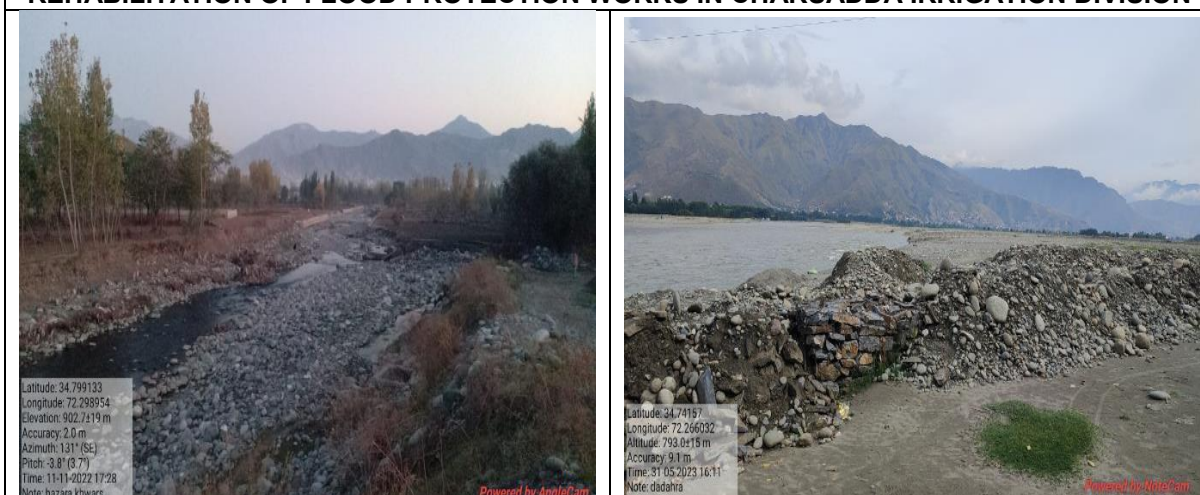
REHABILITATION OF DAMAGED AND WASHED AWAY BANKS IN DI KHAN



REHABILITATION OF FLOOD PROTECTION WORKS/ STRUCTURES, DIR IRRIGATION DIVISION



REHABILITATION OF FLOOD PROTECTION WORKS IN CHARSADDA IRRIGATION DIVISION



REPAIR AND REHABILITATION OF FLOOD PROTECTION STRUCTURES, SWAT IRRIGATION DIVISION-I



2.5 Description of Any Changes to Project Design

40. No changes to the project design have taken place during the reporting period of this report.

2.6 Description of Any Changes to Agreed Construction methods

41. No change to agreed construction methods has been made during the reporting period.

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

42. During the reporting period, the environmental specialists from the PMC consultants were mobilized to plan the priority tasks, team deployment plan and the future course of action for the screening and categorization of sub-projects/packages, and preparation of E&S documents in compliance with approved EMF and ADB SPS-2009. Project-related secondary data, including the feasibility report, PC-1, etc., were collected and reviewed. Meetings were held with the design team, the client, and ADB to discuss and understand the scope and nature of the work. The E&S specialist of PMC visited the sites of retroactive and repair & rehabilitation works throughout the province and prepared the following E&S safeguard documents for each sub-project.

- Project Categorization Brief Report;
- Rapid Environmental Assessment (REA) Checklist;
- Environmental Management Plan (EMP);
- E&S input for Design Report and Tender Documents;
- EMP input for BOQs; and
- EMP Cost and Budget for Feasibility/Design Report.

43. As the project is in the design phase, no contractor has been mobilized to date.

3.2 ADB and KP-EPA Requirements

44. The E&S documentation as per the Section 3.1 has been prepared for various packages under EFAP based on ADB SPS-2009 and EMF. The status of these instruments is provided in Section 2.4.3 of this report. Furthermore, a formal communication (through telecon and letter) has been initiated with KP-EPA for the local requirements as per the applicable laws and regulations of KP-EPA. The meeting with DG EPA has been planned and will be scheduled in upcoming quarter of 2024.

3.3 Site Audits/Inspections

45. Not Applicable

3.4 Issues Tracking (Based on Non-Conformance Notices)

46. Not Applicable

3.5 Trends

47. Not Applicable

3.6 Unanticipated Environmental Impacts or Risks

48. Based on the site reconnaissance and review of available data/information, all works are confined within existing Right of Way (ROW) of Irrigation department. However, this aspect will be validated during the design stage of each project package. The proposed

project has no significant impact on flora and fauna. Some of the minimal impacts like occupational health and safety concerns, air and noise disturbance, and child labor, are anticipated which has been assessed for each package during the preparation of E&S documents accordingly.

4 RESULTS OF ENVIRONMENTAL AND SOCIAL MONITORING

4.1 Overview of Monitoring Conducted during Current Period

50. Not Applicable as Project is in design phase

4.2 Trends

51. Not Applicable

4.3 Summary of Monitoring Outcomes

52. Not Applicable

4.4 Material Resources Utilisation

4.4.1 Current Period

53. Not Applicable

4.4.2 Cumulative Resource Utilisation

54. Not Applicable

4.5 Waste Management

55. Not Applicable

4.5.1 Current Period

56. Not Applicable

4.5.2 Cumulative Waste Generation

57. Not Applicable

4.6 Health and Safety

4.6.1 Community Health and Safety

58. Not Applicable

4.6.2 Worker Safety and Health

59. Not Applicable

4.7 Training

60. Not Applicable

5 FUNCTIONING OF THE SSESMP

5.1 SSESMP Review

61. Not Applicable as Project is in design phase.

6 GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

6.1 Good Practice

62. Not Applicable as Project is in design phase

6.2 Opportunities for Improvement

63. Not Applicable

7 GRIEVANCE REDRESS MECHANISM (GRM)

64. A GRM is established to address any complaints or grievances arising during the implementation period of each sub-projects. Project affectees or community members of the project area may perceive risks to themselves or their property or their legal rights or have concerns about the possible environmental and social impact that a project may have. Any concerns or grievances will be addressed quickly and transparently, and without retribution to the project affectees or community members or complainant.
65. The primary principle of GRM is that all complaints or grievances are resolved as quickly as possible in a fair and transparent manner.

7.1 Objectives

66. The objectives of the GRM are to:
- develop an organizational framework to address and resolve the grievances of individual(s) or community(s), fairly and equitably;
 - provide enhanced level of satisfaction to the aggrieved;
 - provide easy accessibility to the aggrieved/affected individual or community for immediate grievance redress;
 - ensure that the targeted communities and individuals are treated fairly at all times;
 - identify systemic flaws in the operational functions of the project and suggest corrective measures; and
 - ensure sustainability of the project.

7.2 Type of Complaints

67. The major complaints that may arise during the execution of the proposed project at site include but not limited to:
- E&S issues (dust, noise, air pollution, social and cultural issues);
 - Damage and blockage of public utilities including irrigation infrastructure;
 - Traffic inconvenience;
 - Gender Based Violence (GBV), Sexual Exploitation and Abuse (SEA) and Sexual Harassment (SH);
 - Resettlement issues including loss of livelihood; and
 - Issues related to compensation of resettlement impacts.

7.3 Disclosure of GRM

68. The GRM shall be disclosed at PMO, Irrigation Department Khyber Pakhtunkhwa, proposed project and sub-project offices and website as well.

7.4 Structure of Grievance Redress Mechanism

69. The project will establish a three-tier GRM comprising Community GRC, sub-project GRC; and PMO-GRC. These tiers are described below.

7.4.1 Community GRC (Tier-1)

70. The community-GRC will provide a platform for project affectees or community members to raise and discuss their concerns, resolve the E&S issues at the community level and coordinate with project management to communicate these issues and concerns. Community-GRC will be established to maintain a close rapport and coordination with affected persons and community members throughout the project implementation. The community-GRC will comprise the following members with one as the committee convener:

- Two Officials from concerned Irrigation Division at each sub-project package; and
- Two local members (from project affectees or community members).

71. The sub-project E&S staff will coordinate with community-GRC to review and resolve the E&S issue or concern preferably within five (05) working days from receipt of the grievance. Any complaints that cannot be resolved at community-GRC will be forwarded to the next tier.

7.4.2 Sub-Project GRC (Tier-2)

72. PMO will constitute a GRC headed by concerned Project Manager (PM) at each sub-project site to resolve all grievances and complaints of the project affectees or community members received either directly or through the Tier-1. Sub-project GRC will comprise of the following members:

- Project Manager (PM), as head/convener of sub-project GRC;
- Director Social & Environment and Gender Specialist of PMO;
- E&S specialists of Supervision Consultant (SC)
- Resident Engineer of SC;
- A representative (E&S specialist) of contractor (if required); and
- A representative of local community (convener of Tier-1).

73. Representative from any other district government department may be called as and when required by the sub-project GRC.

74. Sub-project GRC will meet once a month and when the need arises. The sub-project GRC will review grievances involving all E&S issues that may arise due to project implementation. Sub-project GRC will perform the following functions:

- Record, categorize and prioritize the grievances that need to be resolved by the committee and resolve them within ten (10) working days;
- Invite and hear aggrieved persons/parties to produce evidence of their claims and record their view point;
- Communicate its decisions and recommendations on all resolved issues to PMO and the aggrieved persons for smooth implementation;
- Forward the unresolved cases/ complaints to PMO-GRC within an appropriate time frame with reasons recorded and its recommendations;
- Develop an information dissemination system and acknowledge the aggrieved persons/parties about the development regarding their grievance;
- Maintain a complaint register accessible to the project affectees or community members with brief information about complaints and sub-project GRC decision with status report; and,
- Maintain complete record of all complaints received by the sub-project GRC with actions taken.

75. Any complaint that cannot be resolved by the sub-project GRC, will be forwarded to the next tier – the PMO-GRC.

7.4.3 PMO-GRC (Tier-3)

76. The GRM aims to mediate conflicts and response to complaints related to environment and social performance of the project. GRM also provide a forum to general public/community who might believe that they are adversely affected by the ADB financed project. The PMO has established a Grievance Redress Committee (GRC) at project level as well with the following composition:

- Director Social & Environment PMO (Chairman/Chairperson)
- Deputy Project Director PMO (Member & Focal person)
- Deputy Director Civil of PMO (Member)
- Deputy Director Environment PMO (Member)
- Tehsil Nazim, (concerned Tehsil) (Member)
- Representatives of DC Swabi Office (Member)
- Deputy Collector PMO (Member)

77. Representative from any other district government department may be called as and when required by the PMO-GRC.

78. The PMO-GRC through the authorized representative, will acknowledge the complainant about his/her complaint, scrutinize the record, investigate the remedies available and request the complainant to produce any record in favor of his/her claim. After thorough review and scrutiny of the available record on the complaint, field visit will be conducted to collect additional information, if required. Once the investigations

are completed, the PMO-GRC will give decision within twenty (20) working days of receipt of the complaint. If the complainant is still dissatisfied with the decision, he/she can go to the court of law, if he/she wishes so. Organization of the GRC is shown in **Figure 4.**

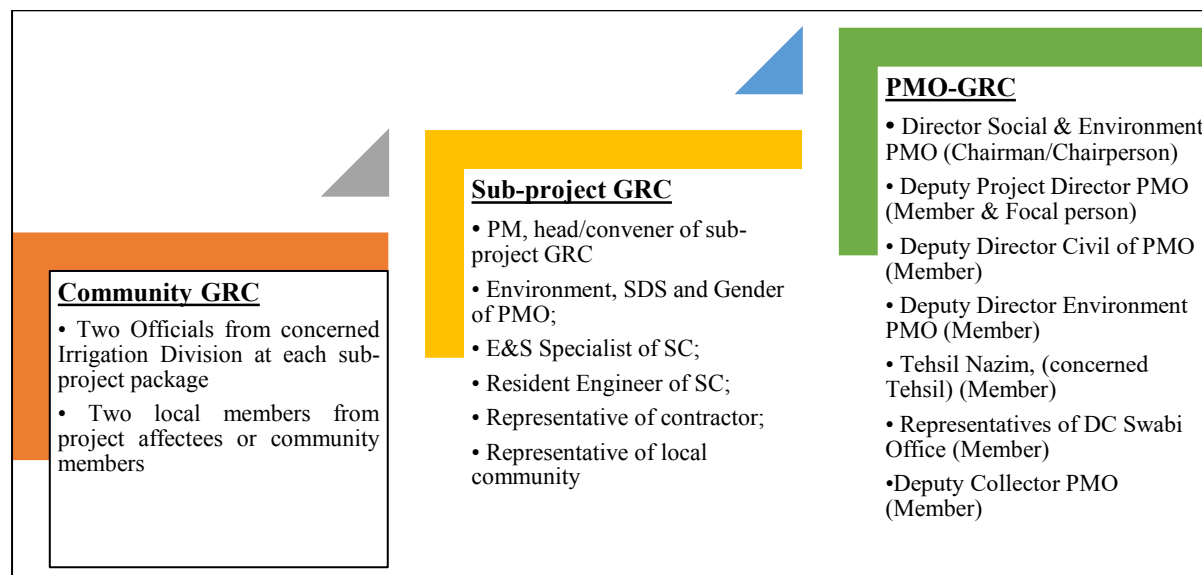


Figure 4: Organogram of GRC

8 SUMMARY AND RECOMMENDATIONS

8.1 Summary

79. The project is in the design phase. Field visits for REAs, IRs and IPs were carried out during the 3rd and 4th quarter of 2023 and EMP inputs along with cost were finalized for the bidding documents and design reports of each package. Furthermore, the work on EMPs and Social Due Diligence (SDDR) has been initiated and reports has been drafted for each package in parallel to design reports and bidding documents. The construction phase is expected to commence in first quarter of 2024.

8.2 Recommendations

80. Not Applicable

ANNEXURES

ANNEXURE I: SUMMARY OF RETROACTIVE SCHEMES

Sr. No.	Name of Work	Circle	Division	Estimated Cost PKR Million
1.	Restoration of Disties/ Minors in Shor Kot Section	DI Khan Circle	CRBC Irrigation Division	22
2.	Restoration of Disties/ Minors in Gomal Section	DI Khan Circle	CRBC Irrigation Division	18
3.	Restoration of Disties/ Minors in Fateh Section	DI Khan Circle	CRBC Irrigation Division	10
4.	Restoration of Disties/ Minors in Naivela Section.	DI Khan Circle	CRBC Irrigation Division	25
5.	Restoration of Disties/ Minors in Ramak Section.	DI Khan Circle	CRBC Irrigation Division	30
6.	Restoration of Disties/ Minors in Mahara Section	DI Khan Circle	CRBC Irrigation Division	30
7.	Emergent Restoration of damaged flood bank of Hazara Drain FCC-23, Gudh Nullah) Village Hazara Pakka DIKhan	DI Khan Circle	CRBC Irrigation Division	3
8.	Restoration of Balambat Irrigation Scheme in District Dir Lower.	Swat Irrigation Circle	Dir Irrigation Division	43
9.	Restoration of Badwan Irrigation Scheme in Adenzai area District Dir Lower.	Swat Irrigation Circle	Dir Irrigation Division	37
10.	Restoration of Gandigar, Darora and Ganorai Irrigation Schemes in District Dir Upper.	Swat Irrigation Circle	Dir Irrigation Division	39
11.	Restoration of Flood Protection Works Along Panjkora River from Kumrat to Chokyatan and its Tributaries in District Dir Upper.	Swat Irrigation Circle	Dir Irrigation Division	60
12.	Restoration of Flood Protection Works Along Panjkora River from adai to Odigram in District Dir Lower.	Swat Irrigation Circle	Dir Irrigation Division	60
13.	Restoration of Flood Protection Works Along Panjkora River from Odigram to Shago kass in District Dir Lower.	Swat Irrigation Circle	Dir Irrigation Division	40
14.	Restoration/Rehabilitation of Flood Protection Works along Right Side Swat Goragat to RCC Bridge of Chakdara in Adenzai Area District Dir Lower.	Swat Irrigation Circle	Dir Irrigation Division	50
15.	Restoration of Shamizai & Barwai Irrigation Schemes and its allied infrastructure in Tehsil Matta District Swat.	Swat Irrigation Circle	Swat Irrigation Division-II	79
16.	Restoration / Rehabilitation of flood protection works/ Armoured Bund on left bank of Swat River from Chakdara Bridge to AT works.	Mardan Irrigation Circle	Malakand Irrigation Division	100
17.	Emergency restoration to 36 KM long damaged flood protection works on left bank of Kabul River at critical reaches including Drains in District Charsadda / Nowshera	Peshawar Irrigation Circle	Charsadda Irrigation Division	114.08

Sr. No.	Name of Work	Circle	Division	Estimated Cost PKR Million
18.	Restoration to damaged flood protection works on left bank of Adezai River including drains in Sahabqadar area.	Peshawar Irrigation Circle	Charsadda Irrigation Division	56.602
19.	Temporary/Emergency Restoration of irrigation Supplies from Munda Head Works to Lower Swat Canal System and tangi Lift Irrigation Secheme i/c intake structures District Charsadda.	Peshawar Irrigation Circle	Charsadda Irrigation Division	300
20.	Restoration of Irrigation Supplies in Doaba Canal System including intake structures and Civil Channels in Shabqadar Area	Peshawar Irrigation Circle	Charsadda Irrigation Division	115

Annexure II: Summary of Sub-Project Packages

Sr. No	Package / Scheme	Description	District	Cost (Million \$)	Environmental Category
1	EFAP/KPID-CW-01	Rehabilitation of Munda Head Works & Doaba Canal System	Charsadda	8.18	Dropped
2	EFAP/KPID-CW-02	Rehabilitation of Flood Protection Works/Structures, Dir Irrigation Division	Dir	1.32	Under Process
3	EFAP/KPID-CW-03	Rehabilitation of Canals and Drains, Pharpur Irrigation Division	DI Khan	2.43	C
4	EFAP/KPID-CW-04	Rehabilitation of Canals / Distributaries Works: Lot-1 & 2: CRBC Irrigation Division DI Khan	DI Khan	3.43	C
5	EFAP/KPID-CW-05	Rehabilitation of Drains & FCCs in CRBC Irrigation Division DI Khan	DI Khan	7.02	C
6	EFAP/KPID-CW-06	Rehabilitation of Flood Protection Works/Structures in District Nowshera, Peshawar Canals Division	Nowshera	6.24	Under Process
7	EFAP/KPID-CW-07	Rehabilitation of Flood Protection Works/Structures , Malakand Irrigation Division	Swat	3.97	Under Process
8	EFAP/KPID-CW-08	Restoration/Rehabilitation of Flood Protection Works Lot-1: Bannu Irrigation Division; and Lot- 2: Marwat Canal Irrigation Division	Bannu	0.32	C
9	EFAP/KPID-CW-09	Rehabilitation of Flood Protection Works/Structures /Drainage System in Chitral Irrigation Division	Chitral	1.08	Under Process
10	EFAP/KPID-CW-10	Rehabilitation/Restoration of Irrigation Systems and Flood Protection Works/Structures, Mansehra & Hazara Irrigation Divisions	Mansehra	1.67	Dropped

Sr. No	Package / Scheme	Description	District	Cost (Million \$)	Environmental Category
11	EFAP/KPID-CW-11	Rehabilitation/Restoration of Flood Protection Works/Structures in Charsadda Irrigation Division	Charsadda	1.91	Under Process
12	EFAP/KPID-CW-12	Rehabilitation of Flood Protection Works/Structures in District Peshawar. Peshawar Irrigation Division	Peshawar	1.82	Under Process
13	EFAP/KPID-CW-13	Rehabilitation of Flood Protection Structures, Swat Irrigation Division-II	Swat	4.09	C
14	EFAP/KPID-CW-14	Rehabilitation of Flood Protection Structures, Swat Irrigation Division-I	Swat	5.01	C
14	EFAP/KPID-CW-15	Rehabilitation/ Restoration of Bridge at Munda Head Works	Munda	0.24	C
16	EFAP/KPID-CW-16	Rehabilitation of Irrigation Systems, Dir Irrigation Division	Dir	1.26	Under Process