



MINISTRY OF NATIONAL FOOD SECURITY & RESEARCH

NATIONAL PROGRAM FOR ENHANCING THE COMMAND AREA
IN BARANI AREAS OF PAKISTAN (NPECA)
PROJECT CONSULTANTS FOR IMPLEMENTATION
ASSISTANCE, EXECUTION SUPERVISION AND THIRD-PARTY
VALIDATION

MONTHLY PROGRESS REPORT OCTOBER-2023



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1 INTRODUCTION

Rain-fed agriculture has been playing an important role in providing food and livelihoods for an ever-increasing population. A vast number of the poorest farmers depend on direct rainfall to derive their precarious livelihoods in Pakistan. However, the scanty and more often erratic nature of rainfall distribution poses serious challenges to agricultural productivity and people's livelihoods. The water runoff losses from cultivated rain-fed areas are about 6 MAF. The cultivable land of 3.37 mha exists in rainfed areas that can be brought under sustainable agriculture. In the rainfed area of Pakistan, 772 small dams exist in all provinces, 619 in Baluchistan, 81 in Sindh, 58 in Punjab, and 14 in Khyber Pakhtunkhwa. The total potential command area of these small dams is 680,420 acres, out of which only 13.3 % are being irrigated and developed and 86.7 % are undeveloped. 2,997 mini dams also exist in Punjab and KP; 1853 in Punjab and 1,144 in Khyber Pakhtunkhwa. The total potential command area under mini dams is 48,613 acres, out of which about 25% command area has been developed. Hence the crop intensity and crop production in these command areas are extremely low. The main factor of low productivity includes less on-farm water storage capacity, low land/water productivity, unavailability of energy at the farm, underdeveloped command area of small/mini dams and other water reservoirs, huge culturable waste, unavailability of skilled manpower, less coordination between departments and fewer linkages between federal and provincial research and development departments.

The rain-fed areas need an integrated approach to promoting sustainable agriculture and improving livelihood. For instance, the development of mini dams should be coupled with the catchment and command area development of the watershed. Similarly, other interventions including watercourse/pipelining, soil erosion control structures/ diversion structures, on-farm water storage tanks, solar pumps, sprinkler/drip irrigation systems, and high-value crops need to be pursued simultaneously. The capacity building of stakeholders is also proposed to stimulate the adoption of appropriate technologies at national and local levels.

Soil, water, and energy conservation technologies are effective, but blunt, instruments for reducing rural poverty, and research is needed on the best means to reduce disparities among landowners and between landowners and other groups, without compromising productivity and wider poverty alleviation gains. The most appropriate measure for increasing the water productivity at the farm level would be to conserve the maximum of available runoff water generated by rains, wherever possible through the development of water storage ponds/ tanks or other such interventions and then using it for supplemental irrigation of water-sensitive crops. The climatic conditions, soils, and water resources in the project area provide enormous opportunities for growing high-value and cash crops like orchards (citrus, olive, grapes, stone fruits), vegetables (cucumber, capsicum, chilies, onion, tomato, potato, garlic, etc.), groundnut, pulses, mustard, sesame, etc. Therefore, enormous potential exists for the development of irrigated agriculture in barani (rainfed) areas through effective water resource development and efficient management.

1.1 DESCRIPTION OF THE PROJECT

The National Program for Enhancing Command Area in Barani Areas of Pakistan has a strong relationship with all the strategies and growth development of the Government of Pakistan. It is in line with the Medium-Term Development Framework (MTDF) of the Government of Pakistan, which envisages efficient water conveyance and its application through rehabilitation/ improvement of farm-level water infrastructure and adoption of improved irrigation methods e.g., drip and sprinkler irrigation, etc. The Pakistan Growth Strategy

envisages irrigation water management as one of the components for achieving the targeted agricultural growth, which would be achieved through water conservation at the farm level through the construction of water storage ponds, development of dug wells, improvement of watercourses in the command area of small dams/ mini dams of barani areas of Pakistan, installation of solar pumping systems at the farm pond, dug wells, and provision of LASER land levelers.

The project follows an integrated approach including the development of water sources (farm ponds and dug wells) for assured supply of irrigation water, construction of farm level water distribution network (watercourses) for irrigating crops, promotion of LASER land leveling services, solar pumping systems for irrigation, and the capacity building of stakeholders for promotion of irrigated agriculture in the rain-fed areas. The Project envisions promoting an environment-friendly, socially sustainable, resource-efficient, and economically profitable irrigated agriculture through integrated management of available soil and water resources by strengthening small landholder farmers. It would be achieved through increased water conveyance and application efficiency, adopting improved irrigation methods, use of solar energy for water lifting/ HEIS operation for promoting crop diversification, effective use of costly inputs, and capacity building of water users in the project area.

Table 1: Province/district wise details of the Project

Sr. No.	Province	Districts
1.	Punjab	Attock, Chakwal, Jhelum, Rawalpindi, Dera Ghazi Khan, Layyah, Rajanpur, Khushab, Bhakkar, Mianwali, Gujrat, Sialkot, Narowal
2.	Baluchistan	Quetta, Pishin, Killa Abdullah, Chagai, Nushki, Zhob, Bharkhan, Musa Khail, Killa Saifullah, Duki, Loralai, Sherani, Sibi, Harnai, Ziarat, Kohlu, Naseerabad, Jhal Magsi, Kalat, Surab, Mastung, Khuzdar, Awaran, Kharan, Washuk, Kech, Lasbela, Panjgur, Dera Bugti, Gawadar, Bolan
3.	Khyber Pakhtunkhwa	Karak, Kohat, Bannu, Hangu, Haripur, Peshawar, Nowshera, Charsadda, Swabi, Dir, Swat
4.	Azad Jammu Kashmir	Neelum, Muzaffarabad, Hatian, Bagh, Haveli, Poonch, Sudhnoti, Lotli, Mirpur, Bhimber
5.	Gilgit Baltistan	Gilgit, Skardu, Shigar, Kharmang, Diamer, Astore, Ghanche, Hunza, Nagar
6.	Islamabad Capital Territory	Islamabad

The component-wise details of the project are given below.

- Construction and solarization of **2,664** farm ponds for storing and supplying rainwater from various sources.
- Installation of solar systems on **2,664** farm ponds for the operation of HEIS.
- Development of **4,106** dug wells for the development of water resources to promote irrigated agriculture.
- Installation of **4,156** solar pumping on dug wells for water development and HEIS operation (Inclusive of 50 hydro-ram pumps for GB component instead of solar pumping systems on dug wells).
- Development/ Improvement of **2,432** watercourses carrying water from various sources for enhancing water conveyance efficiency at the farm level.

- Provision of **1,106** Laser land Levellers to the farmers/ service providers for Laser land leveling services in the barani areas. In addition, conventional land leveling will also be done on **34,000** acres in Khyber Pakhtunkhwa.
- Provision of fruit plants, oilseeds/ pulses crops & and fodder/ forage/ range on **45,502, 112,189, and 81,676** acres respectively, in the command area of small/mini dams to ensure irrigated agriculture.
- Establishment of demo-cum-training sites at five locations all over Pakistan and undertake need-based research activities when required.

2 MONTHLY PROGRESS FY 2023-24 FOR THE MONTH OF OCTOBER 2023

The progress of the month of October is mentioned below;

1.1 PHYSICAL PROGRESS REPORT BY ALL PROVINCES

1.1.1 Punjab

A total of ----- sites were inspected/Checked during the month of October 2023, Intervention progressive progress is as below

Table 2: Progress against the targets for FY 2023-24 during the month of October 2023 (Punjab)

Intervention	Total Targets 2023-24	Design					ICR-I					ICR-II					FCR				
		Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance
Farm Pond	160	87	33	33		54	133	22	22		111	149	4	4		145	158				158
Solar Pumping System on Farm Ponds	160	151	9	9		142	160	1	1		159	160	1	1		159	160				160
Dug Well Development	200	59	72	72		-13	153	39	39		114	191	28	28		163	198				198
Solar Pumping system on Dug wells	200	194	11	11		183	199				199	200				200	200				200

Intervention	Total Targets 2023-24	Design					ICR-I					ICR-II					FCR				
		Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance
Water Courses Development	150	24	39	39		-15	30	26	26		4	148	58	58		90	148	19	16	3	132
LASER Land Leveling (Ac)	100	100															100	5	1	4	99
Fruit Plants (Ac)	1670	1670															1670				
Oil Seeds (Ac)	4325	4325															4325				
Fodder/Forage (Ac)	2880	2880															2880				

Table 3: Progress against Reverification of Backlog till June 2023, during October 2023 (Punjab)

Intervention	Left Over	Offered	Checked	Verified	Deferred	In Hand	Balance
Farm Pond	136	10	10	9	1	0	127
Solar Pumping System on Farm Ponds	52	0	0	0	0	0	52
Dug Well Development	125	17	17	15	2	0	110
Solar Pumping system on Dug wells	18	2	2	2	0	0	16
Water Courses Development	101	14	14	8	6	0	93
LASER Land Leveling (Ac)	73	6	6	6	0	0	67
Fruit Plants (Ac)	1345				0	0	1345

Intervention	Left Over	Offered	Checked	Verified	Deferred	In Hand	Balance
Oil Seeds (Ac)	2918				0	0	2918
Fodder/Forage (Ac)	2317				0	0	2317

The detailed Progress Report for the month of October 2023 is annexed as **A**.

1.1.2 A Pictorial Display of Field Visits to Punjab







Figure 1: Field Visit of Province Punjab during the month of October 2023

1.1.3 Baluchistan

The progress of the province during October is mentioned below;

Table 4: Progress against the targets for FY 2023-24 during the month of October 2023 (Baluchistan)

Interventions	Total tentative targets for (2023-24) proposed by OFWM for Approval from PSC	Total Schemes submitted 2023-24	Total Checked	Verified	Deferred
Farm Ponds	93	0	0	0	0
Rehabilitation/Development of Dug Wells	186	0	0	0	0
Solar Pumping System on Dug Wells	186	0	0	0	0
Solar Pumping System for Farm pond	93	0	0	0	0
Laser Land Levellers Units	8	0	0	0	0
Water Courses Development	372	0	0	0	0
Fruits/Plants (Acres)	4500	0	0	0	0
Oil seeds/pulses (Acres)	9480	0	0	0	0
Fodder (Acres)	7500	0	0	0	0

Table 5: Progress against Reverification of Backlog till June 2023, during the month of October 2023 (Baluchistan)

Interventions	Left Over	Total Schemes submitted 2023-24 during October 2023	Total Checked during October 2023	Verified During October 2023	Deferred During October 2023
Farm Ponds	399	0	5	0	5
Rehabilitation/Development of Dug Wells	571	0	31	0	31
Solar Pumping System on Dug Wells	497	0	24	0	24
Solar Pumping System for Farm pond	355	0	2	0	2
Water Courses Development	372	0	9	0	9
Fruits/Plants (Acres)	5609	0	233	0	233
Oil seeds/pulses (Acres)	11829	0	97	0	97
Fodder (Acres)	8927	0	158	0	158

The detailed Progress Report for the month of October 2023 is annexed as **B**.

1.1.4 A Pictorial Display of Field Visits to Baluchistan





Figure 2: Field Visit of Province Baluchistan during the month of October 2023

1.1.5 Khyber Pakhtunkhwa

A total of 32 sites of the WaterCourses and 927 acres for the RLL have been inspected during the month of October 2023 in KPK., Intervention-wise, progressive progress is as below:

Table 6: Progress against the targets for FY 2023-24 during the month of October 2023 (KPK)

Intervention	Total Taregts 2023-24	Design					ICR-I					ICR-II					FCR				
		Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance
Water Courses Development	100	100	7	7	0	93	100				100	100				100	100	0	0	0	100
Rough Land Leveling (Ac)	7100	7100															7100	0	0	0	7100
Fruit Plants (Ac)	500	500															500	0	0	0	500
Oil Seeds (Ac)	1250	1250															1250	0	0	0	1250
Fodder/Forage (Ac)	300	300															300	0	0	0	300

Table 7: Progress against Reverification of Backlog till June 2023, during the month of October 2023 (KPK)

Intervention	Left Over	Offered	Checked	Verified	Deferred	In Hand	Balance
Water Courses Development	67	44	25	0	25	44	67
Rough Land Leveling (Ac)	2567,51	1008	927	927	0	81	1740.51
Fruit Plants (Ac)	774	0			0	85	774
Oil Seeds (Ac)	677	0			0	0	677
Fodder/Forage (Ac)	163	0			0	0	163

The detailed Progress Report for the month of October 2023 is annexed as **C**.

1.1.6 A Pictorial Display of Field Visits To Khyber Pakhtunkhwa





Figure 3: Field Visit of Province Khyber Pakhtunkhwa during the month of October 2023

1.1.7 The Islamabad Capital Territory

A total of 7 sites were inspected during the month of October 2023. Intervention-wise, progressive progress is as below;

Table 8: Progress against the targets for FY 2023-24 during the month of October 2023 (ICT)

Intervention	Total Targets 202-24	Design					ICR-I					ICR-II					FCR				
		Targets	Offered	Approved	Deferred	Balance	targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance
Farm Ponds	39	39				39	39				39	39				39	39				39
Solar pumping on Farm ponds	37	37				37	37				37	37				37	37				37
Dug well Development	73	73				73	73				73	73				73	73				73
Solar pumping on Dug wells	73	73				73	73				73	73				73	73				73
LASER Land leveling (Ac)	9	9															9				9
Fruits/Plants (Ac)	900	900															900				900
Fodder (Ac)	3000	3000															3000				3000

Table 9: Progress against Reverification of Backlog till June 2023, during the month of October 2023 (ICT)

The detailed Progress Report for the month of October 2023 is annexed as **D**.

Intervention	Leftover	Offered	Checked	Verified	Deferred	Balance
Farm Ponds	8	1	1	1	0	7
Solar pumping on Farm ponds	9	0	0	0	0	9
Dug well Development	19	4	4	4	0	15
Solar pumping on Dug wells	11	2	2	1	1	10
LASER Land leveling (Ac)	0					0
Fruits/Plants (Ac)	0					0
Fodder (Ac)	0					0

1.1.8 A Pictorial Display of Field Visits to the Islamabad Capital Territory





Figure 4: Field Visits of the Islamabad Capital Territory during the month of October 2023

1.1.9 Azad Jammu And Kashmir

A total of 8 sites were inspected during the month of October 2023. Intervention-wise, progressive progress is as below;

Table 10: Progress against the targets for FY 2023-24 during the month of October 2023 (AJK)

Intervention	Total Targets 2023-24	Design					ICR-I					ICR-II					FCR				
		Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance
Farm Ponds	49	49	0	0	0	49	49	0	0	0	49	49	0	0	0	49	49	0	0	0	49
Solar pumping on Farm ponds	66	66	0	0	0	66	66	0	0	0	66	66	0	0	0	66	66	0	0	0	66
Dug well Development	20	20	0	0	0	20	20	0	0	0	20	20	0	0	0	20	20	0	0	0	20
Solar pumping on Dug wells	29	27	0	0	0	27	27	0	0	0	27	27	0	0	0	27	29	2	2	0	27
Water Courses Development	7	7	0	0	0	7	7	0	0	0	7	7	0	0	0	7	7	0	0	0	7
LASER Land leveling	9	9															9	0	0	0	9

Intervention	Total Targets 2023-24	Design					ICR-I					ICR-II					FCR				
		Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance
Fruits/Plants (Ac)	402	402															402	0	0	0	402
Oil seeds (Ac)	930	930															930	0	0	0	930
Fodder (Ac)	805	805															805	0	0	0	805

Table 11: Progress against Reverification of Backlog till June 2023, during the October 2023 (AJK)

Intervention	Left Over 2022-23	Offered	Checked	Verified	Deferred	Balance
Farm Ponds	1	1	1	1	0	0
Solar pumping on Farm ponds	0	0	0	0	0	0
Dug well Development	3	0	0	0	0	3
Solar pumping on Dug wells	5	5	5	5	0	0
Water Courses Development	0					0
LASER Land leveling (Ac)	0					0
Fruits/Plants (Ac)	0					0
Oil seeds (Ac)	0					0

Intervention	Left Over 2022-23	Offered	Checked	Verified	Deferred	Balance
Fodder (Ac)	0					0

The detailed Progress Report for the month of October 2023 is annexed as **E**.

1.1.10 A Pictorial Display of Field Visits to Azad Jammu And Kashmir





Figure 5: Field Visits of Province Azad Jammu and Kashmir during the month of October 2023

1.1.11 Gilgit Baltistan

No site has been inspected by the PCs in GB because no site has been offered by the department for verification/Reverification during the month of October 2023.

Table 12: Progress against the targets for FY 2023-24 during the month of October 2023 (GB)

Intervention	Total targets 2023-24	Design					ICR-I					ICR-II					FCR				
		Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance	Targets	Offered	Approved	Deferred	Balance
Farm ponds	33	33	0	0	0	33	33	0	0	0	33	33	0	0	0	33	33	0	0	0	33
Solar Pumping on Farm ponds	33	33	0	0	0	33	33	0	0	0	33	33	0	0	0	33	33	0	0	0	33
Fodder (Ac)	390	390	0	0	0	390	390	0	0	0	390	390	0	0	0	390	390	0	0	0	390
Fruit/Plants (Ac)	211	211					211					211					211	0	0	0	211
Hydro Ram Pumps	11	11					11					11					11	0	0	0	11

Table 13: Progress against Reverification of Backlog till June 2023, during the month of October 2023 (GB)

Intervention	Left Over	Offered	Checked	Verified	Deferred	Balance
Farm ponds	15	0	0	0	0	15
Solar Pumping on Farm ponds	16	0	0	0	0	16
Fodder (Ac)	116	0	0	0	0	116
Fruit Plants (Ac)	123	0	0	0	0	123
Hydro Ram pumps	0	0	0	0	0	0

Note: The Total Targets are provided by the departments for the fiscal year 2023-24 for the new verification and the fiscal year 2022-23 for the reverification of the interventions and offered targets are provided to the consultants for the re-verification/verification of the interventions monthly in all provinces.

1.2 FINANCIAL PROGRESS REPORT

Table 14: Financial Progress during the month of October 2023

Sr. No.	IPC No.	Month	Date of Submission	Base Amount	Escalation	Sales Tax	Total Amount
				Rs.			
Remuneration							
1	15-A	Oct-23	7-Nov-23	6,938,656	2,983,622	1,123,037	11,045,315
Sub-total (A)				6,938,656	2,983,622	1,123,037	11,045,315
Reimbursable							
2	15-B	Oct-23	-	5,232,411			5,232,411
Sub-total (B)				5,232,411			5,232,411
Grand Total (A+B)				12,171,067	2,983,622	1,123,037	16,277,726