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

QUARTERLY PROGRESS REPORT
1st QUARTER 2023-24 (July-Sept. 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.

2 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 levellers.

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 / districts wise details of Project

Sr. No.	Province	Districts
1.	**Punjab**	Attock, Chakwal, Jhelum, Rawalpindi, Dera Ghazi Khan, Layyah, Rajanpur, Khushab, Bhakkar, Mianwali, Gujrat, Sialkot, Narowal
2.	**Balochistan**	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 supply of 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 & 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.

3 QUARTERLY PROGRESS (Jul-Sep 2023)

The progress of all provinces during the first quarter (July - September) of the fiscal year 2023-24 is tabulated below;

3.1 PHYSICAL PROGRESS REPORT BY ALL PROVINCES

3.1.1 Punjab

The physical progress of the Punjab province during the first quarter of the FY 2023-24 is as below;

Table 2: Progress against the targets for FY 2023-24 during the 1st Quarter July-Sep 2023 (Punjab)

Intervention	Targets 2023-24	Design				ICR-I				ICR-II				FCR			
		Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance
Farm Pond	160	73	73	0	87	27	27	0	133	9	9	0	151	2	2	0	158
Solar Pumping System on Farm Ponds	160	9	9	0	151	0	0	0	160	0	0	0	160	0	0	0	160
Dug Well Development	200	141	141	0	59	47	47	0	153	9	9	0	191	2	2	0	198
Solar Pumping system on Dug wells	200	6	6	0	194	1	1	0	199	0	0	0	200	1	1	0	199
WaterCourses Development	150	126	126	0	24	120	120	0	30	2	2	0	148	2	2	0	148

Intervention	Targets 2023-24	Design				ICR-I				ICR-II				FCR			
		Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance
LASER Land Leveling (Ac)	100	0			100												100
Fruit Plants (Ac)	1670				1670				1670				1670				1670
Oil Seeds (Ac)	4325				4325				4325				4325				4325
Fodder/Forage (Ac)	2880				2880				2880				2880				2880

Table 3: Progress against Reverification of Backlog till June 2023, during the 1st Quarter FY 2023-24 July-Sep 2023 (Punjab)

Intervention	Targets for Reverification 2023-24	Offered	Checked	Verified	Deferred	In Hand	Balance
Farm Pond	147	11	11	11	0	136	136
Solar Pumping System on Farm Ponds	58	6	6	6	0	52	52
Dug Well Development	143	18	18	18	0	125	125
Solar Pumping system on Dug wells	24	6	6	6	0	18	18
WaterCourses Development	241	162	162	140	22	101	101
LASER Land Leveling (Ac)	203	133	133	130	3	73	73
Fruit Plants (Ac)	1345	0				1345	1345

Intervention	Targets for Reverification 2023-24	Offered	Checked	Verified	Deferred	In Hand	Balance
Oil Seeds (Ac)	2918	0				2918	2918
Fodder/Forage (Ac)	2317	0				2317	2317

3.1.2 A Pictorial Display of Field Visits To Punjab

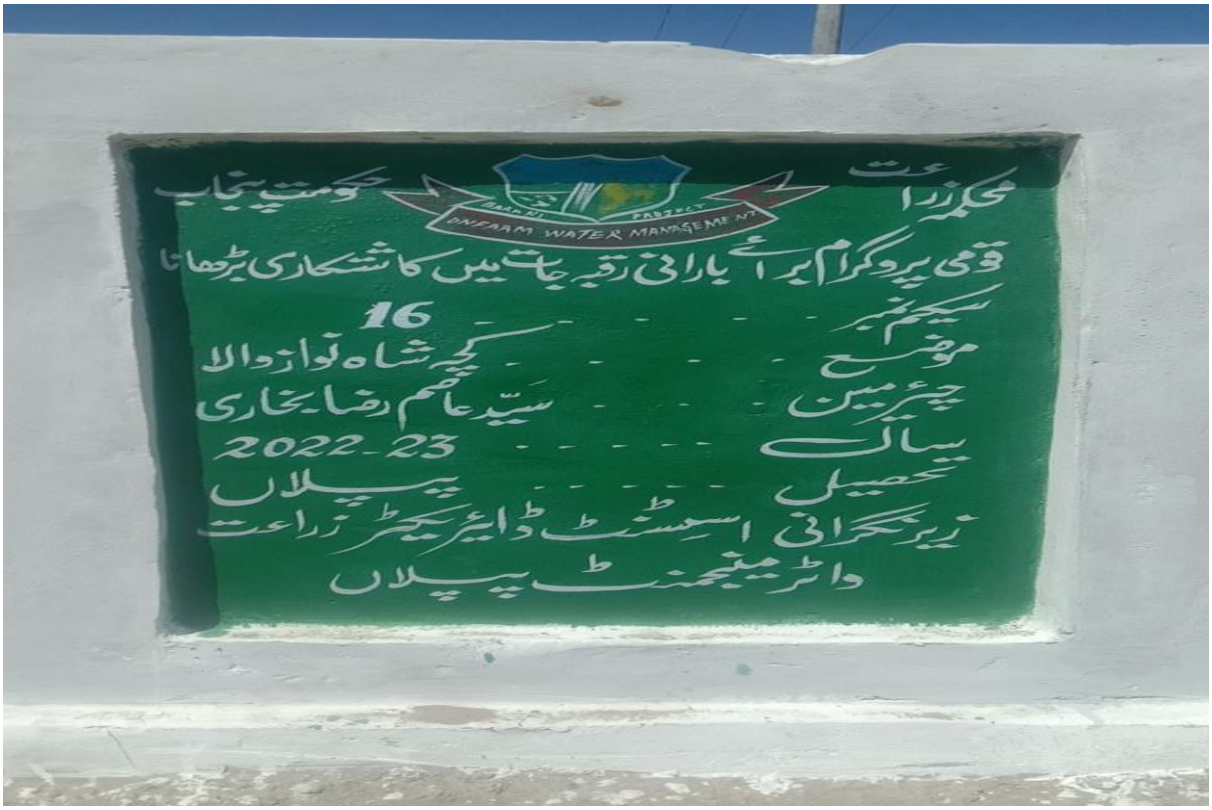

Figure 1: Field Visit of Province Punjab during the first Quarter of FY 2023-24

3.1.3 Balochistan

The physical progress of the Punjab province during the first quarter of the FY 2023-24 is as below;

Table 4: Progress against the targets for FY 2023-24 during the 1st Quarter July-Sep 2023 (Balochistan)

Interventions	Department targets for the Year 2023-24	Total Checked by PC till Sep 2023	Total Checked by PC during the first Quarter of FY 2023-24	Verified during the first quarter of the FY 2023-24	Deferred during the first quarter of the FY 2023-24
Farm Ponds	93	0	0	0	0
Rehabilitation/Development of Dug Wells	186	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 Levelers Units	08	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 1st Quarter FY 2023-23 July- Sept. 2023 (Balochistan)

Interventions	Backlog for the year 2023-24	Total Checked by PC during the first Quarter of FY 2023-24	Verified during the first quarter of the FY 2023-24	Deferred during the first quarter of the FY 2023-24
Farm Ponds	346	56	0	56
Rehabilitation/Development of Dug Wells	471	85	0	85
Solar Pumping System on Dug Wells	413	87	0	87
Solar Pumping System for Farm pond	304	51	0	51
Laser Land Levelers Units	0	0	0	0
Water Courses Development	269	71	0	71
Fruits/Plants (Acres)	5485	0	0	0
Oil seeds/pulses (Acres)	11,629	0	0	0
Fodder (Acres)	8776	0	0	0

3.1.4 A Pictorial Display of Field Visits To Balochistan

Figure 2: Field Visit of Province Balochistan during the first Quarter of FY 2023-24

3.1.5 KHYBER PAKHTUNKHWA

The detailed progress of KPK during the first quarter of the FY 2023-24 is mentioned below;

Table 6: Progress against the targets for FY 2023-24 during the 1st Quarter July-Sep 2023 (KPK)

Intervention	Targets 2023-24	Design				ICR-I				ICR-II				FCR			
		Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance
WaterCourses Development	100	0			100	3	0	3	100				100				100
Rough Land Leveling (Ac)	7100	0			7100												7100
Fruit Plants (Ac)	500	0			500	0			500				500				500
Oil Seeds (Ac)	1250	0			1250	0			1250				1250				1250
Fodder/Forage (Ac)	300	0			300	0			300				300				300

Table 7: Progress against Reverification of Backlog till June 2023, during the 1st Quarter FY 2023-24 July-Sep 2023 (KPK)

Intervention	Targets for Reverification 2023-24	Offered	Checked	Verified	Deferred	In Hand	Balance
WaterCourses Development	88	65	38	21	17	44	67
Rough Land Leveling (Ac)	4054	1536	1486.49	1486.49	0	49.51	2567.51
Fruit Plants (Ac)	883	181	181	109	72	0	774
Oil Seeds (Ac)	677	0				0	677
Fodder/Forage (Ac)	163	0				0	163

3.1.6 A Pictorial Display of Field Visits To Khyber Pakhtunkhwa

Figure 3: Field Visit of Province Khyber Pakhtunkhwa during the first Quarter of FY 2023-24

3.1.7 THE ISLAMABAD CAPITAL TERRITORY

The detailed progress of the ICT component during the first quarter of the FY 2023-24 is mentioned below;

Table 8: Progress against the targets for FY 2023-24 during the 1st Quarter July-Sep 2023 (ICT)

Intervention	Targets 2023-24	Design				ICR-I				ICR-II				FCR			
		Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance
Farm Ponds	39	0	0	0	39	0	0	0	39		0	0	39	0	0	0	39
Solar pumping on Farm ponds	37	0	0	0	37	0	0	0	37	0	0	0	37	0	0	0	37
Dug well Developmen t	73	0	0	0	73	0	0	0	73	0	0	0	73	0	0	0	73
Solar pumping on Dug wells	73	0	0	0	73	0	0	0	73	0	0	0	73	0	0	0	73
LASER Land leveling (Ac)	9																9
Fruits/Plants (Ac)	900	0	0	0	900	0	0	0	900	0	0	0	900	0	0	0	900
Fodder (Ac)	3000	0	0	0	3000	0	0	0	3000	0	0	0	3000	0	0	0	3000

Table 9: Progress against Reverification of Backlog till June 2023, during the Quarter FY 2023-24 July-Sep 2023 (ICT)

Intervention	Targets for Reverification 2023-24	Offered	Checked	Verified	Deferred	Balance
Farm Ponds	24	19	18	16	2	8
Solar pumping on Farm ponds	12	4	4	3	1	9
Dug well Development	30	12	11	11	0	19
Solar pumping on Dug wells	15	4	4	4	0	11
LASER Land leveling (Ac)	0	0	0	0	0	0
Fruits/Plants (Ac)	0	0				0
Fodder (Ac)	0	0				0

3.1.8 A PICTORIAL DISPLAY OF FIELD VISITS TO THE ISLAMABAD CAPITAL TERRITORY

Figure 4: Field Visits of the Province Islamabad Capital Territory during the first Quarter of FY 2023-24

3.1.9 AZAD JAMMU AND KASHMIR

The detailed progress of the AJK component during the first quarter of the FY 2023-24 is mentioned below;

Table 10: Progress against the targets for FY 2023-24 during the 1st Quarter July-Sep 2023 (AJK)

Intervention	Targets 2023-24	Design				ICR-I				ICR-II				FCR			
		Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance	Offered	Approved	Deferred	Balance
Farm Ponds	49	1	1	0	48				49				49				49
Solar pumping on Farm ponds	66	1	1	0	65				66				66				66
Dug well Development	20	1	1	0	19				20				20				20
Solar pumping on Dug wells	29	0	0	0	29				29				29				29
Water Courses Development	7	4	4	0	3				7				7				7
LASER Land leveling	9	0			9												9

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

Table 11: Progress against Reverification of Backlog till June 2023, during the 1st Quarter FY 2023-24 July-Sep 2023 (AJK)

Intervention	Targets for Reverification 2023-24	Offered	Checked	Verified	Deferred	Balance
Farm Ponds	5	4	4	4	0	1
Solar pumping on Farm ponds	0	0	0	0	0	0
Dug well Development	30	27	27	27	27	3
Solar pumping on Dug wells	36	35	31	31	0	5
Water Courses Development	19	19	19	19	0	0
LASER Land leveling (Ac)	5	5	5	5	0	0
Fruits/Plants (Ac)	0					0

Intervention	Targets for Reverification 2023-24	Offered	Checked	Verified	Deferred	Balance
Oil seeds (Ac)	0					0
Fodder (Ac)	0					0

3.1.10 A Pictorial Display of Field Visits To Azad Jammu And Kashmir

Figure 5: Field Visits of Province Azad Jammu and Kashmir during the first Quarter of FY 2023-24

3.1.11 GILGIT BALTISTAN

The detailed progress of the GB component during the first quarter of the FY 2023-24 is mentioned below;

Table 12: Progress against the targets for FY 2023-24 during the 1st Quarter July-Sep 2023 (GB)

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

Table 13: Progress against Reverification of Backlog till June 2023, during the 1st Quarter FY 2023-24 July-Sep 2023 (GB)

Intervention	Targets for Reverification 2023-24	Offered	Checked	Verified	Deferred	Balance
Farm ponds	15	9	9	0	9	15
Solar Pumping on Farm ponds	16	15	15	0	15	16
Fodder (Ac)	116	0	0	0	0	116
Fruits/Plants (Ac)	123	0	0	0	0	123
Hydro Ram pumps	0	0	0	0	0	0

3.1.12 A Pictorial Display of Field Visits To Gilgit Baltistan

Figure 6: Field Visits of the Province of Gilgit Baltistan during the first Quarter of FY 2023-24

3.2 FINANCIAL PROGRESS REPORT DURING THE FIRST QUARTER OF FY 2023-24

Table 14: Financial Report during the first Quarter FY 2023-24

Sr. No.	IPC No.	Month	Date of Submission	Base Amount	Escalation	Sales Tax	Total Amount
				Rs.			
Remunerations							
1	12-A	Jul-23	21-Aug-23	5,323,456	2,289,086	742,898	8,355,440
2	13-A	Aug-23	22-Sep-23	5,301,673	2,279,719	752,710	8,334,102
3	14-A	Sep-23	17-Oct-23	6,905,097	2,969,192	1,104,321	10,978,610
Sub-total (A)				**17,530,226**	**7,537,997**	**2,599,929**	**27,668,152**
Reimbursable							
1	12-B	Jul-23	-	5,959,833	-	-	5,959,833
2	13-B	Aug-23	-	4,499,363	-	-	4,499,363
3	14-B	Sep-23	-	4,568,763	-	-	4,568,763
Sub-total (B)				**15,027,959**	**-**	**-**	**15,027,959**
Grand Total (A+B)				**32,558,185**	**7,537,997**	**2,599,929**	**42,696,111**