



## 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 January-2024



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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, Barkhan, 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 farmer's/ service providers for Laser land levelling services in the barani areas. In addition, conventional land levelling 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 PHYSICAL PROGRESS REPORT BY ALL PROVINCES FY 2023-24

### 2.1 Punjab

Table 2: Progress against the targets for FY 2023-24 during the month of January 2024 (Punjab)

Intervention	Total Targets 2023-24	Design					ICR-I					ICR-II					FCR				
		Remaining Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance
Farm Pond	160	36	15	15	0	21	75	14	14	0	61	114	9	9	0	105	157	0	0	0	157
Solar Pumping System on Farm Ponds	160	136	3	3	0	133	155	2	2	0	153	156	0	0	0	156	160	0	0	0	160
Dug Well Development	200	-48	27	27	0	-75	59	12	12	0	47	127	11	11	0	116	194	0	0	0	194
Solar Pumping system on Dug wells	200	167	0	0	0	167	196	4	4	0	192	197	1	1	0	196	200	0	0	0	200
Water Courses Development	150	-33	1	1	0	-34	-17	3	3	0	-20	36	19	19	0	17	60	16	16	0	44
LASER Land Leveler	100	100															100	0	0	0	100
Fruit Plants (Ac)	1670	1670															1670	124	119	5	1551
Oil Seeds (Ac)	4325	4325															4325	2367	2210	157	2115
Fodder/Forage (Ac)	2880	2880															2880	1177	950	227	1930



**Table 3: Progress against Reverification of Backlog till June 2023, during the month of January 2024 (Punjab)**

Intervention	Total Targets as on 1-7-23	Left Over as on 1-1-24	Offered	Checked	Verified	Deferred	Balance
Farm Pond	169	86	1	1	1	0	85
Solar Pumping System on Farm Ponds	64	43	0	0	0	0	43
Dug Well Development	190	72	3	3	3	0	69
Solar Pumping system on Dug wells	52	15	0	0	0	0	15
Water Courses Development	420	78	8	8	8	0	70
LASER Land Leveler	276	63	8	8	8	0	55
Fruit Plants (Ac)	1,345	1345	0	0	0	0	1,345
Oil Seeds (Ac)	2,918	2918	0	0	0	0	2,918
Fodder/Forage (Ac)	2,317	2317	0	0	0	0	2,317

The detailed Progress Report for January 2024 is annexed as A.

## 2.2 A Pictorial Display of Field Visits to Punjab









**Figure 1: Field visit of Punjab during the month of January 2024**

## 2.3 Baluchistan

Table 4: Progress against the targets for FY 2023-24 during the month of January 2024 (Baluchistan)

Intervention	Total Targets 2023-24	Design					ICR-I					ICR-II					FCR				
		R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance
Farm Pond	93	93				93	93				93	93				93	93				93
Solar Pumping System on Farm Ponds	93	93				93	93				93	93				93	93				93
Dug Well Development	186	186				186	186				186	186				186	186				186
Solar Pumping system on Dug wells	186	186				186	186				186	186				186	186				186
Fruits/Plants (Acres)	4500	4500				4500	4500				4500	4500				4500	4500				4500
Oil seeds/pulses (Acres)	9480	9480				9480	9480				9480	9480				9480	9480				9480
Fodder (Acres)	7500	7500				7500	7500				7500	7500				7500	7500				7500

**Table 5: Progress against Reverification of Backlog till June 2023, during the month of January 2024 (Baluchistan)**

Interventions	Total Targets as on 1-7-23	Left Over as on 1-1-24	Offered	Checked	Verified	Deferred	Balance
<b>Farm Ponds</b>	399	383	11	11	8	3	375
<b>Solar Pumping System for Farm pond</b>	355	344	8	8	5	3	339
<b>Rehabilitation/Development of Dug Wells</b>	571	557	15	15	5	10	552
<b>Solar Pumping System on Dug Wells</b>	497	483	13	13	3	10	480
<b>Water Courses Development</b>	369	342	9	9	6	3	336
<b>Fruits/Plants (Acres)</b>	5609	5525	131	131	87	44	5438
<b>Oil seeds/pulses (Acres)</b>	11829	11779	222	222	222	0	11557
<b>Fodder (Acres)</b>	8927	8757	262	262	262	0	8495

The detailed Progress Report for the month of January 2024 is annexed as **B**.



## 2.4 A Pictorial Display of Field Visits to Baluchistan











**Figure 2: Field visit of Baluchistan during the month of January 2024**

## 2.5 Khyber Pakhtunkhwa

Table 6: Progress against the targets for FY 2023-24 during the month of January 2024 (KPK)

Intervention	Total Targets 2023-24	Design					ICR-I					ICR-II					FCR				
		R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance
Water Courses Development	100	92	0	0	0	92	96	1	1	0	95	96	0	0	0	96	100	1	1	0	99
Rough Land Leveling (Ac)	7100	7100															7091.2	279.94	279.94	0	6811.26
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 January 2024 (KPK)**

Intervention	Total Targets As on 1-7-23	Left Over as on 1-1-24	Offered	Checked	Verified	Deferred	Balance
Water Courses Development	165	42	19	10	5	5	37
Rough Land Leveling (Ac)	4765.77	1571	923	615	615	0	956
Fruit Plants (Ac)	915	729	85	34	34	0	695
Oil Seeds (Ac)	677	677	78	78	78	0	599
Fodder/Forage (Ac)	163	163	20	20	20	0	143

The detailed Progress Report for the month of January 2024 is annexed as C.



## 2.6 A Pictorial Display of Field Visits to Khyber Pakhtunkhwa





**Figure 3: Field visit of Khyber Pakhtunkhwa during the month of January 2024**

## 2.7 Azad Jammu and Kashmir

Table 8: Progress against the targets for FY 2023-24 during the month of January 2024 (AJK)

Interventions	Total Targets 2023-24	Design					ICR-I					ICR-II					FCR				
		R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance
Farm Ponds	30	29	3	3	0	26	30	0	0	0	30	30	0	0	0	30	30	0	0	0	30
Solar pumping on Farm ponds	30	28	0	0	0	28	29	0	0	0	29	29	0	0	0	29	30	0	0	0	30
Dug well Development	30	27	3	3	0	24	28	0	0	0	28	28	0	0	0	28	29	0	0	0	29
Solar pumping on Dug wells	30	21	3	3	0	18	28	0	0	0	28	28	0	0	0	28	28	0	0	0	28
Water Courses Development	8	3	1	1	0	2	8	0	0	0	8	8	0	0	0	8	8	0	0	0	8
Fruits/Plants (Ac)	200	200															200	0	0	0	200
Oil seeds (Ac)	525	525															525	0	0	0	525
Fodder (Ac)	400	400															400	0	0	0	400



**Table 9: Progress against Reverification of Backlog till June 2023, during the month of January 2024 (AJK)**

Intervention	Total Targets as on 1-7-23	Left Over as on 1-1-24	Offered	Checked	Verified	Deferred	Balance
Dug well Development	30	3	0	0	0	0	3

The detailed Progress Report for the month of January 2024 is annexed as **D**.

## 2.8 The Islamabad Capital Territory

**Table 10: Progress against the targets for FY 2023-24 during the month of January 2024 (ICT)**

Intervention	Total Targets 2023-24	Design					ICR-I					ICR-II					FCR				
		R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance
Farm Ponds	7	7	0	0	0	7	7	0	0	0	7	7	0	0	0	7	7	0	0	0	7
Solar pumping on Farm ponds	7	7	0	0	0	7	7	0	0	0	7	7	0	0	0	7	7	0	0	0	7
Dug well Development	14	14	0	0	0	14	14	0	0	0	14	14	0	0	0	14	14	0	0	0	14
Solar pumping on Dug wells	14	14	0	0	0	14	14	0	0	0	14	14	0	0	0	14	14	0	0	0	14
LASER Land leveler	1	1															1	0	0	0	1
Fruits/Plants (Ac)	180	180															180	0	0	0	180
Fodder (Ac)	600	600															600	0	0	0	600

**Table 11: Progress against Reverification of Backlog till June 2023, during the month of January 2024 (ICT)**

Intervention	Total Targets as on 1-7-23	Leftover as on 1-1-2024	Offered	Checked	Verified	Deferred	Balance
Farm Ponds	24	6	0	0	0	0	6
Solar pumping on Farm ponds	12	8	0	0	0	0	8
Dug well Development	30	8	0	0	0	0	8
Solar pumping on Dug wells	15	4	0	0	0	0	4
LASER Land Leveler	0	0	0	0	0	0	0
Fruits/Plants (Ac)	0	0	0	0	0	0	0
Fodder (Ac)	0	0	0	0	0	0	0

## 2.9 Gilgit Baltistan

Table 12: Progress against the targets for FY 2023-24 during the month of January 2024 (GB)

Intervention	Total targets 2023-24	Design					ICR-I					ICR-II					FCR				
		R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. Targets	Offered	Approved	Deferred	Balance	R. 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	0	0	0	211	211	0	0	0	211	211	0	0	0	211	211	0	0	0	211
Hydro Ram Pumps	11	11	0	0	0	11	11	0	0	0	11	11	0	0	0	11	11	0	0	0	11

**Table 13: Progress against Reverification of Backlog till June 2023, during the month of January 2024 (GB)**

Intervention	Total Targets as on 1-7-23	Left Over as on 1-1-24	Offered	Checked	Verified	Deferred	Balance
Farm ponds	15	15	10	8	5	3	10
Solar Pumping on Farm ponds	16	16	10	8	5	3	11
Fodder (Ac)	58	58	0	0	0	0	58
Fruit Plants (Ac)	44	44	0	0	0	0	44
Hydro Ram Pumps	0	0	0	0	0	0	0

The detailed Progress Report for the month of January 2024 is annexed as **E**.

## 2.10 A Pictorial Display of Field Visit to the Gilgit Baltistan



**Figure 4: Field visits of Gilgit Baltistan during the month of January 2024**



### 3. FINANCIAL PROGRESS REPORT

Table 14: Financial Progress during the month of January 2024

Sr. No.	IPC No.	Month	Date of Submission	Base Amount	Sales Tax	Total Amount
				Rs.		
			Remuneration			
1	18-A	Jan-24	13-Feb-24	6,818,017	724,640	7,542,657
Sub-total (A)				6,818,017	724,640	7,542,657
			Reimbursable			
2	18-B	Jan-24	-	5,439,036		5,439,036
Sub-total (B)				5,439,036		5,439,036
Grand Total (A+B)				12,257,053	724,640	12,981,693