

# IRRIGATION

Irrigation sector under province's medium term development framework (MTDF) and annual development plans covers the programs and projects relating to irrigation, drainage, groundwater, flood protection / management and small dams sub-sectors.

## OVERVIEW

Irrigated agriculture is the major determinant of economic growth potential of the province, as it accounts for 26 % of the GDP and caters for over 40 % of the province's work force. Over 90 % of agricultural output in Punjab comes from farmlands irrigated by one of the largest contiguous irrigation systems in the world. The colossal irrigation conveyance network in Punjab is serving 21 million acres (8.4 million hectare) cultivable command area with cropping intensities generally exceeding 120%. The vast irrigation system in the province, however, faces major irrigation and drainage challenges with serious economic, environmental and social implications. Hydraulic infrastructure has deteriorated and large deficits in operation & maintenance (O&M) have led to sub-optimal service delivery levels, characterized by low water conveyance efficiencies and inequitable water deliveries. Replacement cost for Punjab Irrigation infrastructure including barrages and conveyance network is estimated as Rs. 1600 billion whereas estimated cost for rehabilitation and deferred maintenance needs around Rs. 200 billion. Consequently, development goals for the sector encompass rehabilitation, improvement and modernization of irrigation network and allied infrastructure along with system-wide institutional reforms aiming to enhance reliability, adequacy and timeliness of irrigation supplies ensuring system's integrity and sustainability through improved management and service delivery levels.

## ISSUES

Key issues of Punjab's Irrigation Sector are:-

- (i) Mounting water shortages, which have further accentuated in wake of increasing effects of climate change and recurring floods and drought events.
- (ii) Irrigation and drainage infrastructure has deteriorated overtime due to a combination of age, chronic under-funding of maintenance and repair (M&R), and lack of appropriate asset management planning.

- (iii) Gaps in meeting financial sustainability of the system owing to low recovery of *abiana*, inefficient operational regimes and low M&R funding.
- (iv) Non-transparent water entitlements and distribution.
- (v) Lack of participatory approach in operations, maintenance and management of irrigation services leading to inefficiencies, inequities and lack of ownership by users.
- (vi) Imprudent and inefficient utilization and management of groundwater.

## VISION

Long term vision for Punjab's Irrigation Sector is to provide adequate, equitable and reliable irrigation supplies to the cultivable lands of Punjab aiming at enhanced agricultural productivity with focus on broad based institutional reforms.

## POLICY

- a) Government of the Punjab has recently approved "Punjab Water Policy (December 2018)". Overall objective of the Punjab's Water Policy is to:

**"Provide for sustainable management and development of the available water resources (surface, groundwater, and wastewater) taking stock of all uses of water i.e. irrigated agriculture, domestic, civic, industrial and environment over entire geographic regions i.e. canal commands in Indus basin, rain-fed areas and crop zones outside Indus basin through equitable water allocations and efficient management and development."**

Specific pillars supporting Provincial Water Policy are to:-

- Increase water availability
- Manage groundwater abstraction
- Improve water quality
- Enforce drinking water and sanitation standards
- Adapt to climate change, floods and droughts
- Maintain environmental safety of the land resource
- Rigorously pursue demand management
- Improve water governance
- Ensure financial sustainability
- Adroitly address trans-boundary issues

- Develop knowledge database and water informatics
- b)** Further, Irrigation Department has promulgated an Act ‘The Punjab Flood Plain Regulation Act 2016’ to regulate construction works in flood plains through a notification in the Punjab Gazette (April 2016) with following covenants:
- Each flood protection work to be classified in terms of likely hazard potential level.
  - All new flood protection works to be undertaken after detailed appraisal and evaluation of flood protective works e.g., layout, design, cost-benefit analysis and impacts on existing flood protection works.
  - Hydraulic modelling studies determining silting along with configuration and layouts of flood protection works shall precede works to optimise efficacy and sustainability of works.
  - Protective works for flood affected villages, crops and orchards and protection of agricultural lands against erosive actions shall be undertaken by the local governments in the light of findings of the post-2010 Judicial Flood Commission, appointed erstwhile by Lahore High Court.
  - Existing privately owned flood protection works causing serious obstruction in the flood plain shall be removed immediately.
  - Execution of flood protection works by other agencies / individuals shall be subject to permission of Irrigation Department.
- c)** Irrigation Department has also prepared a draft “Water Act (2018)” and is in the process of approval by the Government.

### **SECTORAL STRATEGIES UNDER MTFD (2019-22)**

Key strategies underpinning the sector’s development outlay under Province’s MTFD (2019-20 to 2021-22) are to:-

- Implement structural measures for optimal utilization of surface water resources.
- Plan effective utilization of public investments for Modernization of Irrigation Infrastructure
- Develop and practice holistic approaches to optimize surface and groundwater use efficiencies with the aim to maximize agricultural productivity of irrigated lands.
- Mitigate environmental degradation and groundwater mining.

- Extend broad-based institutional reforms already initiated in the province to achieve improved service delivery targets.
- Extend and improve drainage, flood protection, hill torrent management and command area development interventions in riverine and rain-fed (barani) areas.

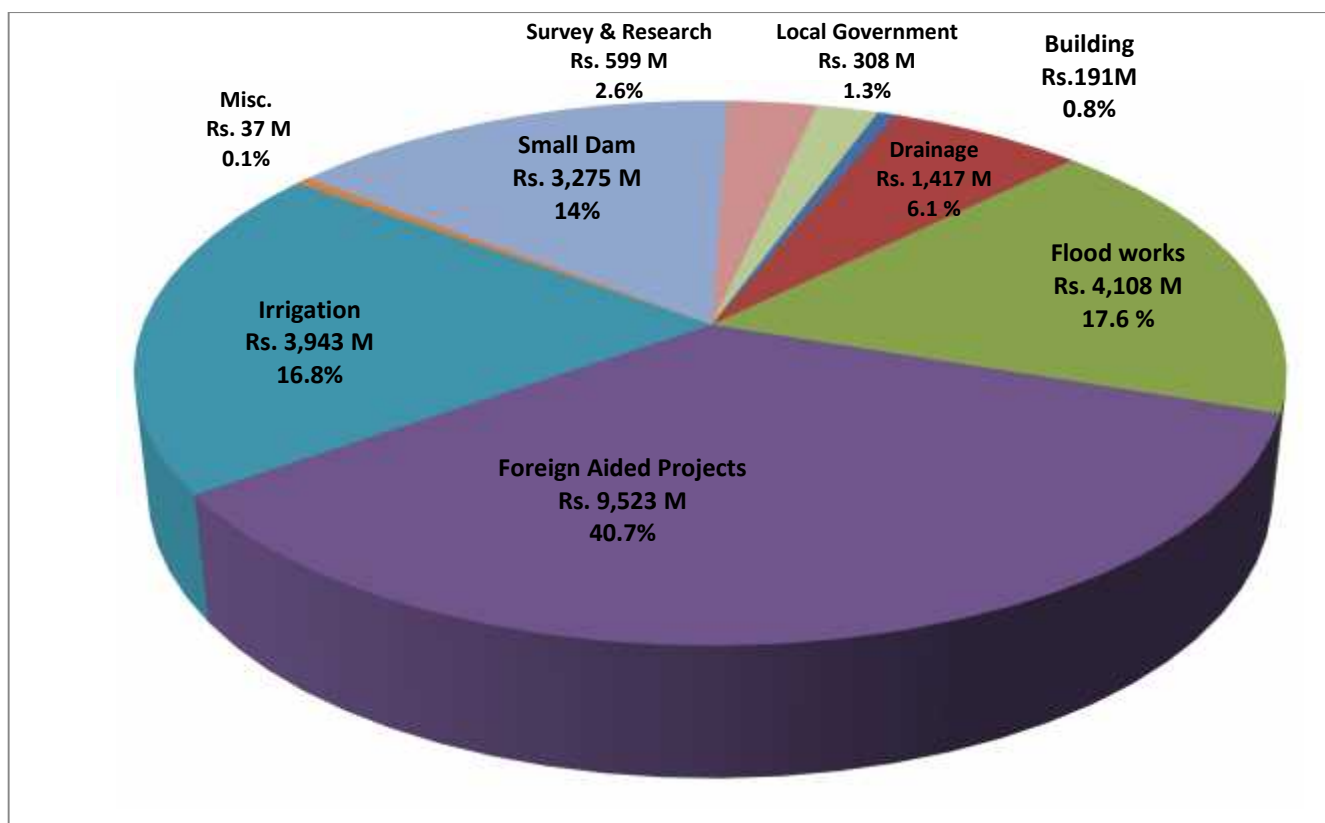
### **STRATEGIC INTERVENTIONS**

- Capacity Development Technical Assistance for Institutional Transformation costing Rs. 337 million through credit assistance by Asian Development Bank (ADB).
- Project Readiness Financing Facility for Punjab Water Resources Management costing Rs. 887.520 million through credit assistance by Asian Development Bank (ADB).

### **SALIENT FEATURES OF SECTOR'S MTFD (2019-22)**

Irrigation Sector's total outlay for the year 2019-20 is planned as Rs.23.400 Billion. Irrigation sector's allocation constitutes 7.80 % of the core ADP (2019-20). Planned outlays for development in the sector in years 2019-20, 2020-21 and 2021-22 are Rs.23.400 Billion, Rs.50.634 Billion and Rs.45.665 Billion respectively. In overall, the 187 Nos. schemes included in MTFD 2019-20 (comprising 128 on-going and 59 new schemes) have been targeted to be executed during 2019-20 with an allocation of Rs. 21.480 Billion (91.79 %) for on-going and Rs.1.920 Billion (8.21 %) to new schemes. Total 78 schemes (66 on-going and 12 new) have been proposed to complete during 2019-20. Out of the total Rs.23.400 Billion budget for Irrigation sector, foreign funding is Rs.8.287 Billion which includes Rs. 8.287 Billion for 3 Nos. on-going and Rs. 0.045 Billion for 3 Nos. new schemes.

## SUB-SECTOR WISE DISTRIBUTION OF ALLOCATION IN IRRIGATION SECTOR



## MILESTONES ACHIEVED DURING FY 2018-19

Sr No.	Sub sector	Achievements
1.	Rehabilitation and up gradation of Trimmu Barrage, Punjnad Head Works Sulemanki	45 % works Completed
2.	New Khanki Barrage Construction Project	100 %Completion of Civil work
3.	Punjab Barrages Improvement Phase-II Project (PBIP-II) - Jinnah Barrage	100 % works Completed
4.	Lower Bari Doab Canal Improvement Project	100 % works Completed
5.	Pakpatan Canal and Sulemanki Barrage Improvement Project (PCSBIP)	73 % works Completed
6.	Disaster & Climate Resilience Improvement Project (DCRIP)	46 % works Completed

7	Rehabilitation of Khadir Feeder, Khadir Disty and Chenab escape	100 % works Completed
8	Flood Emergency Reconstruction and Resilience Project (FERRP) (Irrigation Components)	100% works Completed
9	Engineering Design of Jalal Pur Irrigation Project	100 % works Completed
10	Greater Thal Canal Project Phase-II (Chobara with System)	2 % works Completed
11	Remodelling of SMB Link Canal and Enhancing Capacity of Mailsi Syphon	41% works Completed
12	Selective Lining of Irrigation Channels in Punjab Phase-III	70 % works Completed
13	Rehabilitation of Trimmu Sidhnai Link Canal	47 % works Completed
14	Construction of Mohra Shera Dam in District Rawalpindi	82% works Completed
15	Construction of Mujahid Dam District Rawalpindi	73%works Completed
16	Construction of Chahan Dam Project	89%works Completed
17	Construction of Mohata Dam	52%works Completed
18	Raising of Shahpur Dam	60%works Completed
19	Construction of Sowrra Dam Project in District Attock	98%works Completed
20	Construction of Arrar Mughlan Dam in District Chakwal	100%works Completed
21	Construction of Tamman Dam	70%works Completed
22	Construction of Pindori Dam	91%works Completed
23	Flood Protection of Sialkot against Aik and Phalku Nullah	79%works Completed
24	Flood Protection of Kamoki and adjoining Areas	90%works Completed
25	Management of Hill Torrents in DG Khan Irrigation Zone Sori Lund, Vidore, Mithawan, Kaha and Chachar (Sori Lund Hill Torrents)	63%works Completed
26	Rehabilitation of Ahmadpur Branch System	44%works Completed
27	Channelization of Deg Diversion Channel	14% works Completed
28	Land Acquisition of Jalalpur Project	89%works Completed

### **NEW INITIATIVES IN ADP 2019-20**

- Construction of Jalalpur Irrigation Canal and its System, Costing Rs.32.721 Billion through credit assistance by Asian Development Bank (ADB).
- National Flood Protection Program-IV (NFPP-IV), costing Rs.41.972 Billion.
- Disaster Risk Management works under NDRMF, costing Rs.6.309 Billion.
- Construction of Dadoacha Dam costing Rs.6.027 Billion.
- Greater Thal Canal Project Phase-II (Chobara Branch) costing Rs.6.261Billion through credit assistance by Asian Development Bank (ADB).
- Land Acquisition of GTC Project, costing Rs.7.2 Billion.
- Improvement of drainage network in selected areas of Punjab, Costing Rs.1.9 Billion
- Construction of Papin Dam (Land Acquisition & Command Area Development) Costing Rs.1.23 Billion.
- Reclamation of agriculture land in command area of Abbassia Canal and Abbassia Link Canal costing Rs. 1.545 Billion through World Bank funded SMART Project –DLI-9.
- Management of Sori Lund Hill Torrent (Jamallar and Talli Branch) costing Rs. 1.800 Billion.
- Extension of Colony Protection Bund of Marala Barrage and realignment of tunnel wah Nullahwah nullah in Sialkot district costing Rs. 1.800 Billion.
- Rehabilitation and Modernization of Islam barrage costing Rs. 3.279 Billion through credit assistance by Asian Development Bank (ADB).
- Construction / Rehabilitation of Kas Umar Khan Canal System, Costing Rs. 9.500 billion.

### **MTDF TARGETS FOR FY 2019-20**

<b>Sr. No.</b>	<b>Sectoral Initiatives</b>	<b>Targets (FY 2019-20)</b>
1	Lower Bari Doab Canal Improvement Project	100 %Completion of Civil work
2	Project Preparation of Punjab Irrigated Agriculture Improvement Programme	100 %Completion of Civil work
3	Rehabilitation and up gradation of Trimmu Barrage, Punjnad Head Works Sulemanki	67 % Completion of project
4	New Khanki Barrage Construction Project	100 %Completion of Civil work

5	Punjab Barrages Improvement Phase-II Project (PBIP-II) - Jinnah Barrage	100 % works Completed
6	Pakpatan Canal and Sulemanki Barrage Improvement Project (PCSBIP)	100 %Completion of Civil work
7	Engineering Designof Jalalpur Irrigation Project	100 %Completion of Civil work
8	Construction of Sowrra Dam Project in District Attock	100 %Completion of Civil work
9	Improvement of Drainage System in Tehsil NausheraVirkan	100 %Completion of Civil work
10	Rehabilitation of NausheraDistySystem	100 %Completion of Civil work
11	Rehabilitation of MuridkeDistributory System	100 %Completion of Civil work
12	Rehabilitation of 7/Hakra with System	100 %Completion of Civil work
13	Disaster & Climate Resilience Improvement Project (DCRIP)	76 %Completion of Civil work
14	Rehabilitation of Khadir Feeder, Khadir Disty and Chenab Escape	100 %Completion of Civil work
16	Greater Thal Canal Project Phase-II (Chobara with System)	2 % Completion of Civil work
17	Selective Lining of Irrigation Channels in Punjab Phase-III	73 % works Completed
18	Rehabilitation of TrimmuSidhnai Link Canal	49 % works Completed
19	Construction of MohraShera Dam in District Rawalpindi (Land Acquisition and balance works)	87 % works Completed
22	Construction of Mujahid Dam District Rawalpindi (Land Acquisition andbalance works)	76% works Completed
24	Construction of Chahan Dam Project	100% works Completed
25	Construction of Mohata Dam	56% works Completed
26	Construction of Tamman Dam	75% works Completed
27	Construction of Pindori Dam	100% works Completed
28	Flood Protection of Sialkot against Aik and PhalkuNullah	77% works Completed
29	Flood Protection of Kamoki and adjoining Areas	88% works Completed
30	Construction of Ghabir Dam (Land Acquisition and Command Area Development Punjab Component)	52% works Completed



## TREND OF ALLOCATIONS

(Million Rs)

<b>Year</b>	<b>Original Allocation</b>	<b>Revised Allocation</b>
2010-11	11,005	9,735
2011-12	10,850	10,391
2012-13	11,250	11,290
2013-14	22,401	23,000
2014-15	35,572	35,000
2015-16	35,370	35,367
2016-17	41,000	34,890
2017-18	41,031	32,146
2018-19	19,500	19,500
2019-20	23,400	

## IRRIGATION: SUMMARY

(PKR Million)

Type / Sub Sector	No. of Schemes	Provision for 2019-20				Projection for 2020-21	Projection for 2021-22
		Capital	Revenue	Foreign Aid	G. Total (Cap + Rev)		
<b><u>ON-GOING SCHEMES</u></b>							
Buildings	5	178.597	0.000	0.000	178.597	452.548	756.794
Drainage	13	1,366.501	0.000	0.000	1,366.501	2,778.655	2,485.226
Flood Works	30	3,019.901	0.000	0.000	3,019.901	3,452.635	2,230.672
Foreign Aided Projects	9	1,179.552	39.230	8,242.210	9,460.992	12,664.963	7,860.001
Irrigation	38	3,486.932	66.468	0.000	3,553.400	6,797.546	8,397.026
Local Development Programme	9	307.828	0.000	0.000	307.828	302.139	158.396
Miscellaneous	2	37.297	0.000	0.000	37.297	285.000	239.679
Prime Minister's SDGs Programme	1	2.000	0.000	0.000	2.000	0.000	0.000
Small Dams	15	3,274.929	0.000	0.000	3,274.929	4,272.029	3,725.238
Survey Investigation & Research	6	238.345	40.000	0.000	278.345	335.000	317.328
<b>Total: ON-GOING SCHEMES</b>	<b>128</b>	<b>13,091.882</b>	<b>145.698</b>	<b>8,242.210</b>	<b>21,479.790</b>	<b>31,340.515</b>	<b>26,170.360</b>
<b><u>NEW SCHEMES</u></b>							
Buildings	1	12.000	0.000	0.000	12.000	78.000	0.000
Drainage	3	50.000	0.000	0.000	50.000	1,150.000	955.000
Flood Works	13	718.261	0.000	0.000	718.261	3,411.987	3,875.000
Foreign Aided Projects	3	9.000	8.000	45.000	62.000	2,712.500	1,729.122
Irrigation	13	387.193	0.000	0.000	387.193	9,814.500	12,442.516
NDRMF	16	370.000	0.000	0.000	370.000	1,454.169	0.000
Survey Investigation & Research	10	170.756	150.000	0.000	320.756	672.838	493.120
<b>Total: NEW SCHEMES</b>	<b>59</b>	<b>1,717.210</b>	<b>158.000</b>	<b>45.000</b>	<b>1,920.210</b>	<b>19,293.994</b>	<b>19,494.758</b>
<b>Grand Total</b>	<b>187</b>	<b>14,809.092</b>	<b>303.698</b>	<b>8,287.210</b>	<b>23,400.000</b>	<b>50,634.509</b>	<b>45,665.118</b>

# Irrigation

(PKR Million)

GS No	Scheme Information Scheme ID / Approval Date / Location	Est. Cost	Accum. Exp. June, 19	Provision for 2019-20			MTDF Projections		Throw fwd Beyond June, 2022
				Cap.	Rev.	G.Total (Cap.+Rev.)	2020-21	2021-22	
1	2	3	4	5	6	7	8	9	10

## ON-GOING SCHEMES

### Buildings

4015	Improvement of Basic Facilities in Small Dams Organization (Security Arrangements, Construction of Offices/Residencies etc) 01261501148 / 18-09-2015 / Attock	321.137	153.589	35.000	0.000	35.000	132.548	0.000	0.000
4016	Construction of New Q.B.Link Office Complex Residences Boundary wall at Farooqabad 01201700221 / 01-07-2017 / Nankana Sahib	394.839	3.045	40.000	0.000	40.000	120.000	231.794	0.000
4017	Construction of Residential Buildings in Canal Colony LBDC Sahiwal, residence of SDO Sahiwal and SDO Ganjibar Naiwala 01361700239 / 01-07-2017 / Sahiwal	52.393	13.986	38.407	0.000	38.407	0.000	0.000	0.000
4018	Construction of Igloo at Rakh Arbi for Storage of Explosive Material 01241501971 / 01-07-2016 / Multan	40.190	0.000	40.190	0.000	40.190	0.000	0.000	0.000
4019	Construction of New Campus of Government Engineering Academy Punjab. 01371601783 / 04-04-2016 / Punjab	850.000	100.000	25.000	0.000	25.000	200.000	525.000	0.000
<b>Total: Buildings</b>		<b>1,658.559</b>	<b>270.620</b>	<b>178.597</b>	<b>0.000</b>	<b>178.597</b>	<b>452.548</b>	<b>756.794</b>	<b>0.000</b>

### Drainage

4020	Improvement of Drainage System in Tehsil Nowshera Virkan 01121601758 / 09-12-2016 / Gujranwala	393.238	211.030	65.000	0.000	65.000	0.000	0.000	0.000
4021	Remodeling of Nikki Deg Drain RD 0 to 233+278 01121700211 / 01-07-2017 / Gujranwala	1,132.617	177.391	210.000	0.000	210.000	260.000	485.226	0.000
4022	Construction of 1R Hadda Drain 01151700210 / 01-07-2017 / Mandi Bahauddin	52.047	38.789	13.258	0.000	13.258	0.000	0.000	0.000
4023	Construction of Tibba Manka Drain RD 0 to 28 01151700212 / 01-07-2017 / Mandi Bahauddin	125.068	32.308	90.000	0.000	90.000	0.000	0.000	0.000
4024	Construction of Side Drain Along M.R.Link from RD 296+000 to 314+000 having Capacity of 3000 Cusecs 01161300145 / 21-05-2014 / Narowal	397.545	208.167	189.378	0.000	189.378	0.000	0.000	0.000
4025	Construction of Kawan Malian Drain RD:0+000 To 14+600 (Clearing the Liabilities) 01191606626 / 01-07-2016 / Lahore	39.026	30.638	10.031	0.000	10.031	0.000	0.000	0.000
4026	Enhancing capacity of Sheikhpura Drain RD 0+000 to 91+000 01211601759 / 28-06-2016 / Sheikhpura	398.411	340.366	45.000	0.000	45.000	0.000	0.000	0.000
4027	Construction of Mamoori Drain (RD 0-15500 (Clearing the Liabilities) 01041711221 / 01-07-2018 / Dera Ghazi Khan	62.132	31.130	28.834	0.000	28.834	0.000	0.000	0.000

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1	2	3	4	5	6	7	8	9	10
4028	Extension and Rehabilitation of Qutab Drain 01071700215 / 01-07-2017 / Rajanpur	3,709.239	1,154.540	500.000	0.000	500.000	750.000	500.000	804.699
4029	Rehabilitation of Drainage Network in District Muzaffargarh 01061700214 / 01-07-2017 / Muzaffargarh	391.989	113.334	45.000	0.000	45.000	233.655	0.000	0.000
4030	Reclamation of Water Logged Agriculture Land of Border Area along Hakra Canal 01011700213 / 01-07-2017 / Bahawalnagar	1,581.744	0.000	35.000	0.000	35.000	500.000	500.000	546.744
4031	Mitigation of Water Logging in District R.Y.Khan 01031700209 / 01-07-2017 / Rahim Yar Khan	1,604.316	26.667	35.000	0.000	35.000	500.000	500.000	542.649
4032	Improvement of Drainage Network in Selected Area of Punjab 01371700673 / 01-07-2018 / Punjab	1,977.601	6.667	100.000	0.000	100.000	535.000	500.000	835.934
<b>Total: Drainage</b>		<b>11,864.973</b>	<b>2,371.027</b>	<b>1,366.501</b>	<b>0.000</b>	<b>1,366.501</b>	<b>2,778.655</b>	<b>2,485.226</b>	<b>2,730.026</b>

### Flood Works

4033	Construction of Flood Bund to Protect Agricultural Land and Village Abadi to Bhimber along Left Bank of Nullah Bunuhan in District Jhelum 01281501615 / 07-01-2016 / Jhelum	84.869	58.586	8.000	0.000	8.000	0.000	0.000	0.000
4034	Protection of Abadies and Infrastructure from Devastation of Chachali Nullah Tehsil Isa Khel District Mianwali 01321501260 / 07-10-2015 / Mianwali	303.835	191.922	50.000	0.000	50.000	0.000	0.000	0.000
4035	Channelization of Nullah Broach Tehsil Isa Khel District Mianwali 01321501261 / 07-10-2015 / Mianwali	505.512	284.499	60.000	0.000	60.000	0.000	0.000	0.000
4036	Restoration of J Head Spur No 3 on Indus Between Dhingana and Doaba and Dhingana Village & Construction of J-head Spur RD 35+600/L Near Village Dobba 01321601762 / 01-07-2016 / Mianwali	886.000	228.143	89.539	0.000	89.539	250.266	318.052	0.000
4037	Channelization of Jabba Nullah Tehsil & District Mianwali 01321601763 / 01-07-2016 / Mianwali	695.654	129.734	80.000	0.000	80.000	195.000	290.920	0.000
4038	Channelization of Rakka and Darsola Nullah Tehsil Isakhel District Mianwali 01321700219 / 01-07-2017 / Mianwali	399.783	90.000	40.000	0.000	40.000	120.000	149.783	0.000
4039	Protection of Bhakkar Flood Bund from Erosive Action Between RD 0+000 to 76+000 to Save the Abadies, Agriculture Land & Other Infrastructure of Bhakkar City 01301400334 / 05-12-2014 / Bhakkar	892.218	588.332	30.000	0.000	30.000	150.000	123.886	0.000
4040	Providing River Training Works over River Ravi due to Construction of Mal Fatyana Bridge. 01111501262 / 07-10-2015 / Toba Tek Singh	437.040	366.661	70.379	0.000	70.379	0.000	0.000	0.000

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4041	Providing Flood Protection along Right Bank of Chenab River Downstream Qadirabad Barrage. 01151601766 / 13-01-2017 / Mandi Bahauddin	263.306	171.403	91.903	0.000	91.903	0.000	0.000	0.000
4042	Flood Protection of Sialkot against Aik, Bhed, and Palkhu Nullah 01171400650 / 10-06-2015 / Sialkot	3,974.525	3,142.634	200.000	0.000	200.000	420.000	211.891	0.000
4043	PC-1 for construction of flood protection works along Rayya Flood Bund at RD 32+000 to protect Village Daud Khas (District Narowal) (Clearing the Liabilities) 01161502344 / 01-07-2016 / Narowal	397.480	310.894	14.000	0.000	14.000	0.000	0.000	0.000
4044	Enhancing Capacity of Nullah Bhed and Laila Drain in District Sheikhpura 01211400621 / 26-05-2015 / Sheikhpura	696.122	544.370	60.000	0.000	60.000	91.752	0.000	0.000
4045	Construction of Mole Head Spur for Protection of Nawar Kot Village and Other Infrastructure. 01211501145 / 15-09-2015 / Sheikhpura	260.953	43.270	80.000	0.000	80.000	137.683	0.000	0.000
4046	Flood protection of Kamoki and adjoining areas 01211501146 / 02-09-2015 / Sheikhpura	2,174.936	1,947.707	91.247	0.000	91.247	137.229	0.000	0.000
4047	Channelization of Deg Diversion Channel 01211700220 / 01-07-2017 / Sheikhpura	2,050.000	283.333	100.000	0.000	100.000	522.000	500.000	644.667
4048	Channelization of Deg Nullah (Land Acquisition Punjab Component) 01211603607 / 30-11-2016 / Sheikhpura	3,175.485	2,225.252	950.233	0.000	950.233	0.000	0.000	0.000
4049	Protection of Aurangabad Village by Excavating Cunnet and constructing Gunda Bund to Change the Main River Course at River Ravi 01361601767 / 01-07-2016 / Sahiwal	149.683	91.541	58.142	0.000	58.142	0.000	0.000	0.000
4050	Construction of Guide Spur near Ameerpur/ Sheikh Tayyab at River Ravi 01361601768 / 01-07-2017 / Sahiwal	153.749	53.827	85.000	0.000	85.000	0.000	0.000	0.000
4051	Construction of J-Head Spur at RD:4000 of Fazil Shah Flood Bund (Clearing the Liabilities of Land Acquisition) 01221606636 / 01-07-2016 / Khanewal	143.998	7.825	5.020	0.000	5.020	0.000	0.000	0.000
4052	Construction of Nuthani Flood Carrying Channel from RD: 0+000 to 21000 in D.G. Khan District (Clearing the Liabilities) 01041606630 / 01-07-2016 / Dera Ghazi Khan	654.832	423.037	101.351	0.000	101.351	0.000	0.000	0.000
4053	Management of Hill Torrents / Flood Protection of Rajanpur District 01071400651 / 10-03-2016 / Rajanpur	146.609	127.956	15.000	0.000	15.000	0.000	0.000	0.000

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1	2	3	4	5	6	7	8	9	10
4054	Construction of Flood Bund along River Indus from Rakh Bagh Wala to Bait Wagwar Kot Mithan District Rajanpur RD 0-275 01071601772 / 13-12-2016 / Rajanpur	1,645.936	766.931	110.000	0.000	110.000	350.000	419.005	0.000
4055	Providing River Training Works along Rangpur Flood Bund 01061800039 / 01-07-2018 / Muzaffargarh	568.802	26.667	75.000	0.000	75.000	250.000	217.135	0.000
4056	Construction of Head Regulator and allied structures on Lala Creek for protecting District Layyah from Floods 01051700041 / 01-06-2017 / Layyah	539.479	318.163	74.338	0.000	74.338	146.998	0.000	0.000
4057	Protection of Public Infra Structure in the Vicinity of Moza Mongar, Tehsil Karor Lal Hussain District Layyah 01051700042 / 01-07-2017 / Layyah	573.890	236.960	10.000	0.000	10.000	326.930	0.000	0.000
4058	Protection measures against severe river erosion at Shahwala Groyne to protect public infrastructure in District Layyah 01051901038 / 01-07-2019 / Layyah	185.299	44.000	141.299	0.000	141.299	0.000	0.000	0.000
4059	Construction of Flood Embankments and Protection Works along Left and Right Bank of River Indus for Bridge Near Mianpur Linkage N-5 Arbi Tibba With Rahimyar Khan Islamabad 01031500663 / 01-07-2015 / Rahim Yar Khan	603.849	401.519	15.000	0.000	15.000	0.000	0.000	0.000
4060	Guide Wall spur at RD 191 to 192 Minchin Flood Bund 01031700217 / 01-07-2017 / Rahim Yar Khan	399.994	192.075	110.000	0.000	110.000	0.000	0.000	0.000
4061	Raising & Strengthening of Gunda Bund near Maddokana Guide Wall Spur 01081700396 / 01-07-2017 / Chiniot	199.945	37.500	117.450	0.000	117.450	0.000	0.000	0.000
4062	Management of Hill Torrents in DG Khan Irrigation Zone Sori Lund, Vidore, Mithawan, Kaha and Chachar (Sori Lund Hill Torrents) 01381400336 / 08-12-2014 / Dera Ghazi Khan, Rajanpur	2,035.000	1,593.223	87.000	0.000	87.000	354.777	0.000	0.000
<b>Total: Flood Works</b>		<b>25,198.783</b>	<b>14,927.964</b>	<b>3,019.901</b>	<b>0.000</b>	<b>3,019.901</b>	<b>3,452.635</b>	<b>2,230.672</b>	<b>644.667</b>
<b>Foreign Aided Projects</b>									
4063	Construction of Jalalpur Irrigation Project and its System 01281800034 / 01-07-2018 / Jhelum	32,721.460	735.000	2,200.000	0.000	2,200.000	5,680.000	5,700.000	18,406.460
			Local:	200.000	0.000	200.000			
			Foreign:	2,000.000	0.000	2,000.000			
4064	Punjab Barrages Improvement Phase II Project (PBIP II) Jinnah Barrage 01321000002 / 09-12-2010 / Mianwali	14,427.616	14,333.323	94.293	0.000	94.293	0.000	0.000	0.000
4065	Rehabilitation and up gradation of Trimmu Barrage, Punjnad Head Works Sulemanki 01101400008 / 03-07-2014 / Jhang	16,800.000	7,554.999	3,550.000	0.000	3,550.000	3,535.000	2,160.001	0.000
			Local:	550.000	0.000	550.000			
			Foreign:	3,000.000	0.000	3,000.000			
4066	New Khanki Barrage Construction Project 01120900007 / 03-09-2009 / Gujranwala	23,442.000	23,371.741	70.259	0.000	70.259	0.000	0.000	0.000

## Irrigation

(PKR Million)

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1	2	3	4	5	6	7	8	9	10
4067	Pakpattan canal and Sulemanki Barrage Improvement Project (PCSBIP) 01351300001 / 28-08-2013 / Pakpattan	7,829.187	5,686.039	65.000	0.000	65.000	850.000	0.000	0.000
4068	Project Preparation of Punjab Irrigated Agriculture Improvement Programme PIAIP (PC II) 01371300031 / 11-11-2016 / Punjab	1,288.970	1,236.466	0.000	33.230	33.230	0.000	0.000	0.000
4069	Disaster & Climate Resilience Improvement Project (DCRIP) 01371500665 / 09-07-2015 / Punjab	10,789.400	4,947.227	3,242.210	0.000	3,242.210	2,599.963	0.000	0.000
			Local:	0.000	0.000	0.000			
			Foreign:	3,242.210	0.000	3,242.210			
4070	Rehabilitation of Khadir Feeder, Khadir Disty and Chenab Escape. 01371603473 / 01-07-2016 / Punjab	901.395	284.513	0.000	6.000	6.000	0.000	0.000	0.000
4071	Lower Bari Doab Canal Improvement Project PC I 01380600003 / 07-03-2007 / Kasur,Khanewal,Okara,Sahiwal	29,832.490	27,090.710	200.000	0.000	200.000	0.000	0.000	0.000
<b>Total: Foreign Aided Projects</b>		<b>138,032.518</b>	<b>85,240.018</b>	<b>9,421.762</b>	<b>39.230</b>	<b>9,460.992</b>	<b>12,664.963</b>	<b>7,860.001</b>	<b>18,406.460</b>

### Irrigation

4072	Rehabilitation improvement of Machinery and Channels of Pai Khel Lift Irrigation Scheme 01321700207 / 01-07-2017 / Mianwali	395.527	44.660	20.000	0.000	20.000	170.000	160.867	0.000
4073	Upgradation of Existing old Machinery of Lift Irrigation Schemes and Lining of Channels in Mianwali Canal Division, Mianwali. 01321700208 / 01-07-2017 / Mianwali	397.251	43.653	50.000	0.000	50.000	125.000	178.598	0.000
4074	Construction of J-Head Spur and Excavation of Cunnit to Streamline river flow away from left bank of River Indus near village Alluwal, Dhingana & Doaba in district Mianwali 01321711222 / 01-07-2018 / Mianwali	364.617	138.767	20.000	0.000	20.000	100.000	105.850	0.000
4075	Rehabilitation of Manchar High Level Channel RD 0 to RD 19500 and 1R Minor RD 0 to RD 7 Tail 01121700204 / 01-07-2017 / Gujranwala	80.674	58.036	20.000	0.000	20.000	0.000	0.000	0.000
4076	Lining of Mian Singh Minor (Clearing the Liabilities) 01121401032 / 02-09-2015 / Gujranwala	98.367	85.789	12.578	0.000	12.578	0.000	0.000	0.000
4077	Revised PC-1 for the work of Stone Pitching of Bhau Drain RD 33+000 To 43+000 (Clearing the Liabilities) 01151502343 / 01-07-2016 / Mandi Bahauddin	45.886	34.990	10.986	0.000	10.986	0.000	0.000	0.000
4078	Rehabilitation of BRBD from RD 0+000 to RD 50+000 Including Flood Inlets. 01171601741 / 09-12-2016 / Sialkot	418.000	247.363	90.000	0.000	90.000	0.000	0.000	0.000
4079	Rehabilitation of Muridke Distributary System. 01211400648 / 03-06-2015 / Sheikhpura	749.252	680.051	69.201	0.000	69.201	0.000	0.000	0.000

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4080	Concrete Lining of Faiz Pur Minor from RD 0+000 - 22+700 (Tail) (Clearing the Liabilities) 01211606634 / 01-07-2016 / Sheikhpura	31.316	20.827	0.900	0.000	0.900	0.000	0.000	0.000
4081	Construction of Mian Janda Minor, Chak 177/P to Kartar Pura, District Nankana Sahib 01201501372 / 27-11-2015 / Nankana Sahib	282.822	133.670	90.000	0.000	90.000	0.000	0.000	0.000
4082	Remodeling of 3 No. Aqueducts along B.S.Link Canal 01181400326 / 18-12-2014 / Kasur	432.405	215.571	70.000	0.000	70.000	146.834	0.000	0.000
4083	Rehabilitation of MBL From Head to Tail 01181700205 / 01-07-2017 / Kasur	817.334	80.000	100.000	0.000	100.000	220.000	417.334	0.000
4084	Revival of Todeypur Minor from RD 0+000 to 56+500 (Tail) (Clearing the Liabilities) 01181606633 / 01-07-2016 / Kasur	122.708	114.521	4.917	0.000	4.917	0.000	0.000	0.000
4085	Side Protection of Jandraka Disty RD 9+000 to RD 74+877 01341700201 / 01-07-2017 / Okara	174.171	44.867	129.304	0.000	129.304	0.000	0.000	0.000
4086	Lining of Nehranwala Disty RD 0 to 14+383 01341700380 / 01-07-2017 / Okara	102.492	46.750	55.000	0.000	55.000	0.000	0.000	0.000
4087	Rehabilitation & Upgradation of Lower Bari Doab Canal System RD 159+000 to 166+000 of LBDC (NCB-03) (Clearing the Liabilities) 01341606629 / 01-07-2016 / Okara	166.710	146.969	18.650	0.000	18.650	0.000	0.000	0.000
4088	Construction of VR Bridge at RD 1136+150 of Sukhnai Drain (Old River Sukh Beas) (Less to Rs. 50 Million) (Clearing the Liabilities) 01361606628 / 01-07-2016 / Sahiwal	6.209	2.428	3.781	0.000	3.781	0.000	0.000	0.000
4089	Rehabilitation of Sidhnai Canal from Head to Tail 01221700222 / 01-07-2017 / Khanewal	379.752	0.000	30.000	0.000	30.000	200.000	149.752	0.000
4090	Remodeling of SMB Link Canal and Enhancing Capacity of Mailsi Syphon 01251400449 / 25-02-2015 / Vehari	4,034.893	1,663.407	537.256	0.000	537.256	500.000	600.000	734.230
4091	Lining of Lal Distributary. 01041501143 / 02-09-2015 / Dera Ghazi Khan	73.565	29.977	30.000	0.000	30.000	0.000	0.000	0.000
4092	Feasibility Study for rehabilitation of D.G. Khan Canal (Clearing the Liabilities) 01041606627 / 01-07-2016 / Dera Ghazi Khan	23.208	13.496	5.191	0.000	5.191	0.000	0.000	0.000
4093	Construction of Bridge, Old Manka Canal Basti Noor Muhammad Chandia (Clearing the Liabilities) 01041606632 / 01-07-2016 / Dera Ghazi Khan	122.706	114.521	0.165	0.000	0.165	0.000	0.000	0.000
4094	Concrete Lining of Maggi Magassom Link RD 0 to 58500 01061400328 / 18-12-2014 / Muzaffargarh	434.798	309.151	30.000	0.000	30.000	95.647	0.000	0.000



# Irrigation

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1	2	3	4	5	6	7	8	9	10
4095	Rehabilitation and Lining of Adil Wah Disty and Its System. 01061601750 / 01-07-2016 / Muzaffargarh	556.581	319.696	90.000	0.000	90.000	146.885	0.000	0.000
4096	Rehabilitation of Ali Pur Branch RD 0+000 - 117+050 (Tail) (Clearing the Liabilities) 01061502346 / 01-07-2016 / Muzaffargarh	198.897	180.649	2.559	0.000	2.559	0.000	0.000	0.000
4097	Rehabilitation of Ahmadpur Branch System 01021400330 / 08-12-2014 / Bahawalpur	1,762.158	767.955	60.000	0.000	60.000	400.000	534.203	0.000
4098	Rehabilitation of Eastern Sadiqia Canal for Restoring its Design Capacity in Reach RD 0-195 01011601752 / 13-12-2016 / Bahawalnagar	958.286	261.469	85.000	0.000	85.000	285.000	326.817	0.000
4099	Rehabilitation of 6R/Hakra with System 01011601753 / 09-12-2016 / Bahawalnagar	393.292	288.641	104.651	0.000	104.651	0.000	0.000	0.000
4100	Rehabilitation of 7R/Hakra with System 01011601754 / 09-12-2016 / Bahawalnagar	395.995	280.308	115.687	0.000	115.687	0.000	0.000	0.000
4101	Rehabilitation of Hakra Branch from RD 0+000 to 286+920 01011800033 / 01-07-2018 / Bahawalnagar	868.599	140.000	100.000	0.000	100.000	285.000	343.599	0.000
4102	Rehabilitation of Ahmadpur Lamma disty System 01031400331 / 18-12-2014 / Rahim Yar Khan	937.958	673.652	264.306	0.000	264.306	0.000	0.000	0.000
4103	Rehabilitation of Degi Distributary with System 01031601755 / 27-12-2016 / Rahim Yar Khan	1,145.107	126.498	15.000	0.000	15.000	400.000	603.609	0.000
4104	Selective Lining of Irrigation Channels in Punjab Phase III 01371400649 / 01-07-2014 / Punjab	3,500.000	2,456.820	585.000	0.000	585.000	458.180	0.000	0.000
4105	Improvement of Irrigation Water Supply at Tail Reaches of Irrigation Channels of Minors in Selected Area of Punjab 01371700674 / 30-07-2017 / Punjab	6,000.000	238.208	300.000	0.000	300.000	1,315.000	2,021.792	2,125.000
4106	Project Management Cost for Project Implementation Unit (PIU) for (FERRP & DCRIP) in Punjab Irrigation Department 01371800201 / 01-07-2018 / Punjab	66.468	0.000	0.000	66.468	66.468	0.000	0.000	0.000
4107	Rehabilitation of Trimmu Sidhnaik Link Canal. 01381501259 / 20-10-2015 / Jhang,Toba Tek Singh	2,455.000	1,159.245	32.000	0.000	32.000	450.000	813.755	0.000
4108	Greater Thal Canal Project Phase-II (Chobara Branch) 01381501533 / 05-01-2016 / Bhakkar,Khushab,Layyah,Mianwali	6,261.701	100.851	5.000	0.000	5.000	1,500.000	2,140.850	2,515.000
4109	Land Acquisition for Jalalpur Irrigation Project 01381501534 / 05-01-2016 / Jhelum,Khushab	2,988.800	2,659.000	329.800	0.000	329.800	0.000	0.000	0.000

# Irrigation

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1	2	3	4	5	6	7	8	9	10
<b>Total: Irrigation</b>		<b>38,243.505</b>	13,922.456	3,486.932	66.468	<b>3,553.400</b>	6,797.546	8,397.026	5,374.230
<b>Local Development Programme</b>									
4110	Construction of Mateela Drain RD 0+000 to 20+080 01331700355 / 30-06-2017 / Sargodha	41.276	4.550	27.000	0.000	<b>27.000</b>	0.000	0.000	0.000
4111	Concrete Lining of Rajbah, Akal Pur, Norewala, District Jhang 01101700535 / 01-07-2017 / Jhang	9.356	6.088	2.500	0.000	<b>2.500</b>	0.000	0.000	0.000
4112	Lining of Bungahayat Disty RD 81+670 to 110+272 Tail in Tehsil and District Pakpattan 01351700691 / 02-07-2017 / Pakpattan	67.977	35.483	25.000	0.000	<b>25.000</b>	0.000	0.000	0.000
4113	Construction of Retaining Wall on Right Bank of Juggi Wala Minor District Muzaffargarh 01061700542 / 30-07-2017 / Muzaffargarh	31.722	15.861	12.000	0.000	<b>12.000</b>	0.000	0.000	0.000
4114	Construction of Side Protection at Lunda Minor District Muzaffargarh 01061700675 / 01-07-2017 / Muzaffargarh	66.190	36.619	21.940	0.000	<b>21.940</b>	0.000	0.000	0.000
4115	Construction of Spur Bund Biat Gujji & Sumra Nashaib NA-182, District Layyah 01051700584 / 30-07-2017 / Layyah	399.388	290.000	109.388	0.000	<b>109.388</b>	0.000	0.000	0.000
4116	Concrete Lining of 1-L/Shahiwala Minor RD 0+000 to 37+500 District Bahawalpur 01021700676 / 01-07-2017 / Bahawalpur	144.265	17.353	35.000	0.000	<b>35.000</b>	91.912	0.000	0.000
4117	Concrete Lining of 2-R Mohal Disty RD 0 to 69+000 District Bahawalpur 01021700677 / 01-07-2017 / Bahawalpur	348.396	45.000	25.000	0.000	<b>25.000</b>	120.000	158.396	0.000
4118	Concrete Lining of Mithra Disty RD 0+000 to Tail (40+550) District Bahawalpur 01021700678 / 01-07-2017 / Bahawalpur	164.670	24.443	50.000	0.000	<b>50.000</b>	90.227	0.000	0.000
<b>Total: Local Development Programme</b>		<b>1,273.240</b>	475.397	307.828	0.000	<b>307.828</b>	302.139	158.396	0.000
<b>Miscellaneous</b>									
4119	Security Arrangements for Key Points (Barrages Dams and all the Important Sites) 01371400155 / 21-10-2014 / Punjab	164.100	125.931	32.297	0.000	<b>32.297</b>	0.000	0.000	0.000
4120	Augmentation of Earth Moving Machinery in Irrigation Department Punjab 01371501263 / 07-12-2015 / Punjab	1,592.205	1,062.526	5.000	0.000	<b>5.000</b>	285.000	239.679	0.000
<b>Total: Miscellaneous</b>		<b>1,756.305</b>	1,188.457	37.297	0.000	<b>37.297</b>	285.000	239.679	0.000

# Irrigation

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1	2	3	4	5	6	7	8	9	10

## Prime Minister's SDGs Programme

4121	Lining of 9 Burjies 3 L/IR Minor Chak No.259/EB District Vehari 01251700712 / 01-07-2017 / Vehari	8.733	6.683	2.000	0.000	2.000	0.000	0.000	0.000
<b>Total: Prime Minister's SDGs Programme</b>		<b>8.733</b>	<b>6.683</b>	<b>2.000</b>	<b>0.000</b>	<b>2.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

## Small Dams

4122	Construction of Chahan Dam Project 01291200030 / 25-05-2013 / Rawalpindi	1,567.430	1,394.887	172.543	0.000	172.543	0.000	0.000	0.000
4123	Construction of Mohata Dam 01291400337 / 09-12-2014 / Rawalpindi	2,414.593	1,261.464	70.000	0.000	70.000	500.000	583.129	0.000
4124	Construction of Dadhocha Dam 01291601780 / 01-07-2017 / Rawalpindi	6,027.710	1,426.617	2,500.000	0.000	2,500.000	1,150.000	1,551.093	0.000
4125	Construction of Papin Dam Project 01291800004 / 01-07-2018 / Rawalpindi	1,227.000	19.999	30.000	0.000	30.000	500.000	677.001	0.000
4126	Construction of Mohra Shera Dam in District Rawalpindi 01290900044 / 17-07-2009 / Rawalpindi	844.587	688.587	40.000	0.000	40.000	116.000	0.000	0.000
4127	Construction of Mujahid Dam District Rawalpindi 01290800028 / 07-09-2009 / Rawalpindi	981.310	712.222	40.000	0.000	40.000	229.088	0.000	0.000
4128	Construction of Small Dams in District Attock Phase II Shahbazpur, Tajabara and Sadrial Dams (Revise) 01260700003 / 19-11-2007 / Attock	1,168.580	457.010	20.000	0.000	20.000	300.000	391.570	0.000
4129	Construction of Sowra Dam Project in District Attock 01261400152 / 24-10-2014 / Attock	915.075	900.075	15.000	0.000	15.000	0.000	0.000	0.000
4130	Raising of Shahpur Dam 01261400671 / 18-10-2014 / Attock	352.314	209.928	142.386	0.000	142.386	0.000	0.000	0.000
4131	Construction of Dhrabi and Minwal Dam (Revised) 01270500001 / 15-08-2005 / Chakwal	981.365	454.000	20.000	0.000	20.000	250.000	257.365	0.000
4132	Construction of Small Dams in District Chakwal Phase II (Dhok Hum, Mundi Dam, Dhok Jhang and Uthwal /Lakhwal Dam (Revised) 01270900024 / 19-03-2010 / Chakwal	1,496.080	971.000	20.000	0.000	20.000	240.000	265.080	0.000
4133	Construction of Tamman Dam 01271400154 / 16-10-2014 / Chakwal	1,542.014	1,072.942	70.000	0.000	70.000	399.072	0.000	0.000
4134	Construction of Ghabir Dam ( Land Acquisition and Command Area Development Punjab Component) 01271501147 / 11-09-2015 / Chakwal	924.933	436.500	40.000	0.000	40.000	448.433	0.000	0.000
4135	Construction of Pindori Dam 01281200031 / 20-05-2013 / Jhelum	959.310	876.301	75.000	0.000	75.000	0.000	0.000	0.000
4136	Rehabilitation and Improvement of Existing Dams and Irrigation Channels in Small Dams Organization 01381400038 / 01-07-2012 / Attock,Chakwal,Jhelum,Rawalpindi	732.017	572.581	20.000	0.000	20.000	139.436	0.000	0.000

# Irrigation

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1	2	3	4	5	6	7	8	9	10
<b>Total: Small Dams</b>		<b>22,134.318</b>	11,454.113	3,274.929	0.000	<b>3,274.929</b>	4,272.029	3,725.238	0.000
<b>Survey Investigation &amp; Research</b>									
4137	Feasibility Study for Raising of Rawal Dam (Clearing the Liabilities) 01291502345 / 01-07-2016 / Rawalpindi	35.069	22.346	1.874	0.000	<b>1.874</b>	0.000	0.000	0.000
4138	Feasibility Study for Construction of Kas Umar Khan Canal System PC II 01321601737 / 11-11-2016 / Mianwali	120.788	103.293	10.471	0.000	<b>10.471</b>	0.000	0.000	0.000
4139	Establishment of Strategic Planning / Reform Unit in Irrigation and Power Department (SMART, DLI-9) 01371400647 / 26-06-2015 / Punjab	391.726	163.278	0.000	40.000	<b>40.000</b>	50.000	50.000	88.448
4140	Recharge of Aquifer for Groundwater Management in Punjab. 01371500659 / 11-02-2016 / Punjab	580.586	158.258	35.000	0.000	<b>35.000</b>	120.000	267.328	0.000
4141	Hiring of Consultancy Services for Monitoring of Projects under Provincial Development Program. 01371501264 / 28-10-2015 / Punjab	1,275.985	661.136	160.000	0.000	<b>160.000</b>	165.000	0.000	0.000
4142	Strengthening and Up gradation of Field Research Station at Babakwal and Research Laboratories of Irrigation Research Institute Lahore and Numerical Modeling of Hydraulic Structures 01381400325 / 18-12-2014 / Lahore,Sheikhupura	203.696	172.696	31.000	0.000	<b>31.000</b>	0.000	0.000	0.000
<b>Total: Survey Investigation &amp; Research</b>		<b>2,607.850</b>	1,281.007	238.345	40.000	<b>278.345</b>	335.000	317.328	88.448
<b>Total: ON-GOING SCHEMES</b>		<b>242,778.784</b>	131,137.742	21,334.092	145.698	<b>21,479.790</b>	31,340.515	26,170.360	27,243.831
<b>NEW SCHEMES</b>									
<b>Buildings</b>									
4143	Reconstruction of Residences & Allied Structures in Canal Colony Sulaimanki Barrage 01341901532 / Un-Approved / Okara	90.000	0.000	12.000	0.000	<b>12.000</b>	78.000	0.000	0.000
<b>Total: Buildings</b>		<b>90.000</b>	0.000	12.000	0.000	<b>12.000</b>	78.000	0.000	0.000
<b>Drainage</b>									
4144	Rehabilitation of Moch Drain System and Channelization of Nullahs approaching Thal Canal Tehsil and District Mianwali 01321901024 / Un-Approved / Mianwali	425.000	0.000	35.000	0.000	<b>35.000</b>	180.000	210.000	0.000
4145	Reclamation of agriculture land in command area of Abbasia Canal and Abbasia Link Canal (SMART, DLI-9) 01031901160 / Un-Approved / Rahim Yar Khan	1,545.000	0.000	5.000	0.000	<b>5.000</b>	795.000	745.000	0.000
4146	Improving efficiency of 3R Abassia Drain to maintain the water table for safe root zone of fertile agriculture land. 01381902476 / Un-Approved / Bahawalpur,Rahim Yar Khan	185.000	0.000	10.000	0.000	<b>10.000</b>	175.000	0.000	0.000
<b>Total: Drainage</b>		<b>2,155.000</b>	0.000	50.000	0.000	<b>50.000</b>	1,150.000	955.000	0.000

# Irrigation

(PKR Million)

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				Cap.	Rev.	G.Total (Cap.+Rev.)	2020-21	2021-22	
1	2	3	4	5	6	7	8	9	10

## Flood Works

4147	Providing Flood Protection Along Left Bank of River Chenab D/S Qadirabad Barrage (Land acquisition) 01141900980 / Un-Approved / Hafizabad	50.000	0.000	50.000	0.000	50.000	0.000	0.000	0.000
4148	Extension of Colony Protection Bund of Marala Barrage and Realignment of Tunnel wah Nullah in Sialkot District 01171902421 / Un-Approved / Sialkot	1,800.000	0.000	50.000	0.000	50.000	510.000	500.000	740.000
4149	Protection of Balatour Post against erosive action of River Ravi 01171902477 / Un-Approved / Sialkot	40.000	0.000	40.000	0.000	40.000	0.000	0.000	0.000
4150	Land Acquisition for Construction of River Training Works executed under PSDP (Constructing J-Head Spur at RD 151+800 of Chenab Flood Bund and Extending Guide Bank Head Type Spur at RD 0+920 of Nawabpur Flood Bund) 01241901492 / Un-Approved / Multan	11.695	0.000	11.695	0.000	11.695	0.000	0.000	0.000
4151	Checking side erosion on right side of river Indus down stream Gajani escape district DG Khan 01041800360 / Un-Approved / Dera Ghazi Khan	200.000	0.000	40.000	0.000	40.000	160.000	0.000	0.000
4152	Construction of Spur at Chorkin, District D. G. Khan 01041800363 / Un-Approved / Dera Ghazi Khan	100.000	0.000	15.000	0.000	15.000	85.000	0.000	0.000
4153	Construction of Spur at Lalu Daira Shah, District D. G. Khan 01041800364 / Un-Approved / Dera Ghazi Khan	100.000	0.000	10.000	0.000	10.000	90.000	0.000	0.000
4154	Management of Sori Lund Hill Torrent (Jamallar & Talli Branch) 01041901040 / Un-Approved / Dera Ghazi Khan	1,800.000	0.000	30.000	0.000	30.000	895.000	875.000	0.000
4155	Protection of Basti Jam Chandi from erosive action of river Indus (Chak Karya Creek) near Rojhan. 01071800361 / 26-03-2019 / Rajanpur	101.987	0.000	10.000	0.000	10.000	91.987	0.000	0.000
4156	Protecting Shehr Sultan Flood Bund RD 20+000 to RD 32+000 from erosive action of River Chenab to save the abadies Mouza Binda Ishaq and Faizpur 01061902437 / Un-Approved / Muzaffargarh	36.566	0.000	36.566	0.000	36.566	0.000	0.000	0.000
4157	Provision of J-Head Spur at Essan Wala forest Eastern Bank River Downstream Taunsa Barrage Kot Addu District Muzaffargarh 01061902485 / Un-Approved / Muzaffargarh	100.000	0.000	20.000	0.000	20.000	80.000	0.000	0.000
4158	National Flood Protection Program-IV (NFPP-IV) 01371800267 / Un-Approved / Punjab	41,972.000	0.000	5.000	0.000	5.000	1,500.000	2,500.000	37,967.000
4159	Emergent works / measures against the erosive action of river flows to protect Flood / Irrigation Infrastructure 01371902478 / Un-Approved / Punjab	400.000	0.000	400.000	0.000	400.000	0.000	0.000	0.000

# Irrigation

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				Cap.	Rev.	G.Total (Cap.+Rev.)	2020-21	2021-22	
1	2	3	4	5	6	7	8	9	10
<b>Total: Flood Works</b>		<b>46,712.248</b>	0.000	718.261	0.000	<b>718.261</b>	3,411.987	3,875.000	38,707.000

## Foreign Aided Projects

4160	Capacity Development Technical Assistance for Institutional Transformation 01191800091 / Un-Approved / Lahore	337.002	0.000	0.000	23.000	<b>23.000</b>	225.000	89.002	0.000
			Local:	0.000	8.000	<b>8.000</b>			
			Foreign:	0.000	15.000	<b>15.000</b>			
4161	Rehabilitation and Modernization of Islam Barrage 01021800346 / Un-Approved / Bahawalpur	3,279.100	0.000	8.000	0.000	<b>8.000</b>	2,160.000	1,111.100	0.000
			Local:	3.000	0.000	<b>3.000</b>			
			Foreign:	5.000	0.000	<b>5.000</b>			
4162	Project Readiness Financing Facility for Punjab Water Resources Management 01371800092 / Un-Approved / Punjab	887.520	0.000	31.000	0.000	<b>31.000</b>	327.500	529.020	0.000
			Local:	6.000	0.000	<b>6.000</b>			
			Foreign:	25.000	0.000	<b>25.000</b>			
<b>Total: Foreign Aided Projects</b>		<b>4,503.622</b>	0.000	39.000	23.000	<b>62.000</b>	2,712.500	1,729.122	0.000

## Irrigation

4163	PC-1 for Remaining Land Acquisition for GTC Project 01311800143 / Un-Approved / Khushab	7,862.779	0.000	5.000	0.000	<b>5.000</b>	2,530.000	5,327.779	0.000
4164	Construction/Rehabilitation of Kas Umar Khan Canal System Tehsil Isa Khel District Mianwali 01321902774 / Un-Approved / Mianwali	9,500.000	0.000	5.000	0.000	<b>5.000</b>	4,747.500	4,747.500	0.000
4165	Lining of Jhano Chak Minor M.B.Din 01151902529 / Un-Approved / Mandi Bahauddin	20.000	0.000	20.000	0.000	<b>20.000</b>	0.000	0.000	0.000
4166	Installation of Weather Radar at Sialkot 01171902502 / Un-Approved / Sialkot	736.814	0.000	5.000	0.000	<b>5.000</b>	400.000	331.814	0.000
4167	Consultancy Services for Monitoring of Development Projects / Program in Irrigation Department 01191901162 / Un-Approved / Lahore	400.000	0.000	50.000	0.000	<b>50.000</b>	350.000	0.000	0.000
4168	Compensation of Land Situated Dhallu, Lahore. 01191606637 / 01-07-2016 / Lahore	0.776	0.000	0.776	0.000	<b>0.776</b>	0.000	0.000	0.000
4169	PC-I for improving shortage of water supply in Shikhanwala disty, Concrete Lining of Chichoki Malian Disty System, Ahmadwala Minor, Muniawala Minor and Hardo minor. 01211902344 / Un-Approved / Sheikhpura	450.000	0.000	90.000	0.000	<b>90.000</b>	136.417	223.583	0.000
4170	Lift irrigation scheme Phool Nager Tehsil Pattoki District Kasur(Phase-II) 01181902776 / Un-Approved / Kasur	150.000	0.000	5.000	0.000	<b>5.000</b>	72.000	73.000	0.000
4171	Lining of Hattar Minor off Taking from Sidhnai Canal 01221805091 / Un-Approved / Khanewal	20.000	0.000	20.000	0.000	<b>20.000</b>	0.000	0.000	0.000
4172	Selective lining of Irrigation Channels in Punjab Phase-IV 01371800171 / Un-Approved / Punjab	1,000.000	0.000	100.000	0.000	<b>100.000</b>	450.000	450.000	0.000
4173	Remodeling of BRBD Link Canal to Meet the Shortage of Canal Supply for Lahore and Kasur Divisions 01381800064 / Un-Approved / Gujranwala,Kasur,Lahore,Sheikhpura	1,000.000	0.000	25.000	0.000	<b>25.000</b>	400.000	575.000	0.000

## Irrigation

(PKR Million)

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				Cap.	Rev.	G.Total (Cap.+Rev.)	2020-21	2021-22	
1	2	3	4	5	6	7	8	9	10
4174	Rehabilitation of Dajal Branch RD 0+000 to 190+000 01381901034 / Un-Approved / Dera Ghazi Khan,Rajanpur	1,123.840	0.000	26.417	0.000	26.417	548.583	548.840	0.000
4175	Rehabilitation of Shoria, Dhingana and Darkhast Distys Systems in District D.G.Khan 01381901152 / Un-Approved / Dera Ghazi Khan,Rajanpur	380.000	0.000	35.000	0.000	35.000	180.000	165.000	0.000
<b>Total: Irrigation</b>		<b>22,644.209</b>	<b>0.000</b>	<b>387.193</b>	<b>0.000</b>	<b>387.193</b>	<b>9,814.500</b>	<b>12,442.516</b>	<b>0.000</b>
<b>NDRMF</b>									
4176	Raising & Strengthening of Kalera Flood Bund RD: 0+000 to RD: 27+750 Balloki - Sidhnai Reach river Ravi (NDRMF) 01091902353 / Un-Approved / Faisalabad	198.154	0.000	5.000	0.000	5.000	54.446	0.000	0.000
4177	Restoration of launched apron of Right Guide Bund of Qadirabad Barrage (NDRMF) 01151902359 / Un-Approved / Mandi Bahauddin	49.203	0.000	5.000	0.000	5.000	9.760	0.000	0.000
4178	Enhancing capacity of Dugri Drainage System for protection of Sialkot Airport (NDRMF) 01171900981 / Un-Approved / Sialkot	400.000	0.000	5.000	0.000	5.000	115.000	0.000	0.000
4179	Rehabilitation / Restoration of Jalala Flood Protection Bund from RD: 0+000 to RD 26+700 (NDRMF) 01171902351 / Un-Approved / Sialkot	283.568	0.000	85.070	0.000	85.070	0.000	0.000	0.000
4180	Remodeling of bunds along Deg Nullah upto Qila Sobah Singh (NDRMF) 01171902355 / Un-Approved / Sialkot	523.458	0.000	5.000	0.000	5.000	152.037	0.000	0.000
4181	Rehabilitaion / Restoration of Hajipur Gujran Flood Protection Bund RD: 0+000 to RD 37+750 (NDRMF) 01161902350 / Un-Approved / Narowal	428.073	0.000	90.188	0.000	90.188	38.233	0.000	0.000
4182	Protection of village abadies Shahpur Chanjora, Fatehpur Gujran and Sukho Chak against the erosive action of Bein Nullah in district Narowal (NDRMF) 01161902352 / Un-Approved / Narowal	162.841	0.000	48.852	0.000	48.852	0.000	0.000	0.000
4183	Protection of infrastructure, abadies and agricultural land of villages Jagojil and Baryar from erosion of river Ravi downstream Outfall RD: 313+000 M.R Link Canal (NDRMF) 01211902357 / Un-Approved / Sheikhpura	478.790	0.000	10.000	0.000	10.000	65.000	0.000	0.000
4184	Rehabilitation of old Deg Nullah from Deg Diversion Channel to QB Link Canal (NDRMF) 01211902358 / Un-Approved / Sheikhpura	469.634	0.000	80.890	0.000	80.890	60.000	0.000	0.000
4185	Remodeling / Restoration of Fateh Muhammad bund and Lalu Guddar bund along river Sutlej (NDRMF) 01181902356 / Un-Approved / Kasur	490.060	0.000	5.000	0.000	5.000	142.018	0.000	0.000

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1	2	3	4	5	6	7	8	9	10
4186	Protecting Village Kund Sargana, its surrounding abadies and other infrastructure of Tehsil Kabirwala from erosive action of River Ravi (NDRMF) 01241902360 / Un-Approved / Multan	367.030	0.000	5.000	0.000	5.000	105.109	0.000	0.000
4187	Constructing flood carrying channel Hill Torrent X-ing at RD:123+000 of Dajal Branch (NDRMF) 01041902362 / Un-Approved / Dera Ghazi Khan	398.153	0.000	5.000	0.000	5.000	114.445	0.000	0.000
4188	Strengthening and Raising of Jampur Flood Bund from RD:0+000-171+000 (NDRMF) 01071902363 / Un-Approved / Rajanpur	749.316	0.000	5.000	0.000	5.000	219.794	0.000	0.000
4189	Protecting of Khangarh Flood Bund RD:0+000 to RD: 136+500 (NDRMF) 01061902361 / Un-Approved / Muzaffargarh	412.543	0.000	5.000	0.000	5.000	118.762	0.000	0.000
4190	Construction of damaged inverted filters and friction blocks of Taunsa Barrage (NDRMF) 01061902364 / Un-Approved / Muzaffargarh	399.817	0.000	5.000	0.000	5.000	114.945	0.000	0.000
4191	Protection of F. North Flood Bund after construction of Layyah Taunsa Bridge (NDRMF) 01051902365 / Un-Approved / Layyah	498.734	0.000	5.000	0.000	5.000	144.620	0.000	0.000
<b>Total: NDRMF</b>		<b>6,309.374</b>	<b>0.000</b>	<b>370.000</b>	<b>0.000</b>	<b>370.000</b>	<b>1,454.169</b>	<b>0.000</b>	<b>0.000</b>
<b>Survey Investigation &amp; Research</b>									
4192	Feasibility study for Extending Cantonment Flood Bund Downstream G.T. Road Bridge Along Right Bank of River Jhelum 01281800040 / Un-Approved / Jhelum	10.000	0.000	10.000	0.000	10.000	0.000	0.000	0.000
4193	Feasibility Studies of Mohar Lift Irrigation Scheme "A&B" off take from RD 201+500 & 87+000 Mohajir Branch 01321901156 / Un-Approved / Mianwali	183.120	0.000	5.000	0.000	5.000	90.000	88.120	0.000
4194	Feasibility Study for Management and Flood Protection of Deg Nullah from LOC to MR Link including flood management through Basantar nullah and Nikki deg (upper). 01121901155 / Un-Approved / Gujranwala	120.000	0.000	20.000	0.000	20.000	100.000	0.000	0.000
4195	Feasibility Study for enhancing capacity of Shahdara Railway Bridge and old G.T.Road Bridge on River Ravi in Lahore 01191901154 / Un-Approved / Lahore	10.756	0.000	10.756	0.000	10.756	0.000	0.000	0.000
4196	Implementation arrangements of Water Act and establishment of Directorate General setup for Punjab Water Resources Commission (SMART, DLI-9) 01191902326 / Un-Approved / Lahore	100.000	0.000	0.000	20.000	20.000	80.000	0.000	0.000
4197	PC-1 for Upgradation of Central Design Office at Lahore 01191902554 / Un-Approved / Lahore	250.000	0.000	0.000	100.000	100.000	75.000	75.000	0.000



## Irrigation

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1	2	3	4	5	6	7	8	9	10
4198	Feasibility Study of Management of Lenri, Sora on Sanghar Hill Torrent & Zenda Pir on Sori Lund Hill Torrent (Tribal Area Taunsa / D.G.Khan) 01041901163 / Un-Approved / Dera Ghazi Khan	112.838	0.000	25.000	0.000	25.000	87.838	0.000	0.000
4199	Feasibility Study and proposing solutions of problematic Small Dams in Development Zone 01371805093 / Un-Approved / Punjab	250.000	0.000	50.000	0.000	50.000	100.000	100.000	0.000
4200	PC-1 for Project Preparation including Survey, Investigation and Model Studies along with Capacity Building of Technical Staff 01371902570 / Un-Approved / Punjab	150.000	0.000	0.000	30.000	30.000	40.000	80.000	0.000
4201	Feasibility Study, Detailed Design of new Small Dams 01381901158 / Un-Approved / Attock,Chakwal,Jhelum,Rawalpindi	300.000	0.000	50.000	0.000	50.000	100.000	150.000	0.000
<b>Total: Survey Investigation &amp; Research</b>		<b>1,486.714</b>	<b>0.000</b>	<b>170.756</b>	<b>150.000</b>	<b>320.756</b>	<b>672.838</b>	<b>493.120</b>	<b>0.000</b>
<b>Total: NEW SCHEMES</b>		<b>83,901.167</b>	<b>0.000</b>	<b>1,747.210</b>	<b>173.000</b>	<b>1,920.210</b>	<b>19,293.994</b>	<b>19,494.758</b>	<b>38,707.000</b>
<b>Grand Total</b>		<b>326,679.951</b>	<b>131,137.742</b>	<b>23,081.302</b>	<b>318.698</b>	<b>23,400.000</b>	<b>50,634.509</b>	<b>45,665.118</b>	<b>65,950.831</b>