

## **Major achievements under PHE, I&FC Deptt.( 2017-18)**

### **PRIORITY WORKS - COMPREHENSIVE FLOOD MANAGEMENT PLAN OF RIVER JEHLUM PHASE-I (COSTING RS. 399.29 CRORE UNDER PMDP)**

Under “Comprehensive Flood Management Plan of river Jehlum Phase-I” costing Rs. 399.29 crore under PMDP, following cumulative achievements have been made on major components of the project:-

- Spectacular progress has been registered in land acquisition and an amount of Rs. 80.34 Crore ( Including Rs 5.54 Cr paid to Wildlife) has been placed at their disposal for payment to land owners .Against target of 87.96 hectare, 75.84 hectare of land has been acquired so far.
- Under dredging, against 16.36 lac cumec, 8.53 lacs cumec of material has been dredged out so far.
- About 43800 trees have been felled during the process of possession on the Flood Spill Channel.
- The demolition of Houses by the owners is in progress at Wazepora & Gasheri Mohallah Naidkhai.
- Out of 116 structures, 39 have been completely demolished & remaining are under demolition.
- Construction of Two number Bridges at Shariefabad and Naidkhai has been started by JKPCC.
- All major works in the project are proceeding as per schedule provided by MoWR.
- An amount of Rs. 54.55 crore has been released by the GOI during current financial year.

### **COMPREHENSIVE FLOOD MANAGEMENT PLAN OF RIVER JEHLUM PHASE-II (COSTING RS. 1684.60 CRORE UNDER PMDP)**

The preparation of DPR Phase-II is being entrusted to an empanelled of Ministry of Water Resources and Shall be completed within three months after receipt of final report from CWPRS-Pune.

## **CONSTRUCTION OF SHAHPUR KANDI BARRAGE:-**

Long time dispute with Govt. of Punjab with regard to Construction of Shahpur Kandi Barrage and subsequent drawl of water and power besides employment has been resolved and a fresh agreement signed under the aegis of Ministry of Water Resources, GoI. The agreement has been ratified by both the Governments.

### **The benefits of the project to the J&K State:**

- Full compensation for land and other allied items shall be released by Punjab on present rates apart from providing jobs to 861 left out affected persons immediately.
- Over one lac acres of kandi area of Districts of Samba & Kathua falling in the command of Ravi Canal shall get irrigation facility on implementation of water sharing Agreement with Punjab. The benefit on account of agriculture production shall be approx. 250 crore per year after release of agreed share of water i.e. 1150 cusecs.
- Punjab has agreed to supply the power @ Rs. 3.50 per unit as soon as the work is resumed. After resumption of the work of Shahpur Kandi Dam, the J&K state shall start getting 20 % of power i.e. approx. 300 MU annually from Ranjit Sagar Dam and another 20% from the Shahpur kandi project after its completion /Commissioning. At present there will be benefit of about Rs. 165.00 crore per year to the J&K state on account of power from RSD.
- The state of J&K shall save Rs. 14.00 crore annually on account of power and operational charges being paid for lift stations at Basantpur and Lakhanpur.
- The state of Punjab will construct the balance portion of Ravi Canal for a length of 2.3 Km and canal syphon for carrying water for Kashmir Canal out of their own resources (out of cost of National Project funded by Govt. of India) for which the state of J&K has not to make any investment in this regard.
- Regarding the losses which state has suffered so far on account of agriculture and power due to non- construction of Shahpur Kandi Dam and non-release of power from Ranjit Sagar Dam, the matter shall be referred to arbitrators as per clause 16 of the Agreement 1979.

## **CONSTRUCTION OF FLOOD PROTECTION WORKS ON BONAR & MADHUMATI NALLAH**

- The project “Construction of Flood Protection Works on Bonar & Madhumati Nallah” costing Rs. 134.87 crore has been taken up to accommodate 58 cusec of additional water from Kishenganga Hydel Electric Project. The project is to be funded by NHPC authorities.
  - Out of the 71 works costing Rs. 101 crore, 60 works (including Gabion), have been taken up so far against which 07 has been completed.
  - The remaining works and acquisition of land are being tendered/ is in process of acquisition. All works shall be completed by November 15, 2017.
  - Funds amounting to Rs. 45.00 crore have been released by NHPC against which Rs. 27.19 crore have been utilized ending August, 2017.

### **WATER SUPPLY SCHEME SOPORE UNDER UIDSSMT:**

- WSS Sopore costing Rs. 33.53 crore taken up under UIDSSMT has been inaugurated by the Hon'ble Chief Minister recently. The scheme with source as Ningli nallah is benefiting 80, 000 souls in 21 wards of Sopore town.

### **WSS TANGNAR SRINAGAR**

- Water Supply Scheme Tangnar Srinagar, costing Rs. 148.37 crores with source as River Jehlum, is almost complete under Jawahar Lal Nehru Urban Renewal Mission (JnNURM). The scheme will add 10 Million Gallons of potable water per day to the Srinagar City and surrounding sub-urban areas thereby benefiting 2.94 lac souls.
- The scheme being commissioned shortly.

### **NATIONAL RURAL DRINKING WATER SUPPLY PROGRAMME (NRDWP):**

There are 15958 rural habitations in the State out of which 8683 habitations are fully covered (FC )@ 40 lpcd whereas 7275 habitations are partially covered (PC) with varying service level, between 10 lpcd to 39 lpcd, & population coverage.

During the year 2016-17, an expenditure of Rs. 283.07 crore has been incurred by the Department and 147 Water Supply Schemes have been completed under NRDWP thereby covering 292 habitations.

To monitor the quality of drinking water, 133248 water samples lifted from 25236 drinking water sources have been tested during the year 2016-17 whereas 42656 samples have been tested during 2017-18 up to ending Sept., 2017.

During the year 2016-17, 3666 Hand Pumps have been got repaired /redeveloped in consultation with Hon'ble MLAs.

For the year 2017-18, the GoI has enjoined upon the States that henceforth hand pumps shall not be drilled out of NRDWP funds thus leaving the Deptt. with nil funds for Hand Pump drilling which is an immediate means of providing safe drinking water.

350 new habitations are being covered with piped water supply during 2017-18 with an anticipated expenditure of Rs. 264.48 crores. An amount of Rs. 87.74 crore, has been released by GoI against which Rs. 42.90 crore have been utilized ending Sept., 2017.

### **SCHEMES UNDER NABARD LOAN ASSISTANCE :-**

During 2016-17 under NABARD loan assistance, 81 new water supply, irrigation & Flood Control projects costing Rs. 313.37 crores were submitted to NABARD for funding out of which 42 water supply schemes costing 107.14 crores were approved.

22 water supply schemes have been completed during 2016-17 under NABARD funding.

76 schemes are ongoing under NABARD, with balance cost of 129.40 crores. During 2017-18, an allocation of Rs. 60.61 crore has been approved.

Medium Irrigation Project “ Lar Canal Shopian” has been completed during the year at an estimated cost of Rs. 29.03 crore. The scheme with a carrying capacity of 26 cumec has created an additional potential of 4700 hectares.

Water Supply Scheme Tengam Tengbal costing Rs. 14.22 crore has been commissioned during 2017-18 under NABARD loan assistance.

### **ENHANCEMENT OF CEILING UNDER NABARD:-**

Due to drastic reduction of ceiling under NRDWP and embargo imposed by the MoDWS, GoI, on taking up of new water supply schemes, the rural water supply sector has come under severe stress and many areas/extensions are facing water shortage.

Besides, no new major medium irrigation schemes are being taken up under PMKSY(AIBP) thus rendering many irrigation canals in a dilapidated condition and require modernization/renovation.

In this background, Planning Dev. & Monitoring Deptt. and Finance Deptt. were requested to enhance the ceiling under NABARD for PHE Sector.

Accordingly, the Deptt. has formulated a proposal comprising of 206 schemes, costing Rs. 817.30 crore as per the following sector-wise details. These schemes can be completed within 3 years thus providing relief to the people of the State.

<b>S.No.</b>	<b>Sector</b>	<b>No. of projects</b>	<b>Estd. Cost (Rs. in lacs)</b>	<b>Enhanced ceiling proposed for 2017-18</b>
1	PHE Jammu	<b>92</b>	34244.64	10000.00
2	PHE Kashmir	<b>101</b>	37373.95	10000.00
3	I&FC Jammu	<b>6</b>	2772.73	2500.00
4	I&FC Kashmir	<b>7</b>	7338.38	2500.00
<b>Grand Total</b>		<b>206</b>	<b>81729.70</b>	<b>25000.00</b>

### **LIC LOAN ASSISTANCE:-**

Under LIC loan assistance, 11 schemes, have been completed during 2016-17.

87 water supply schemes are ongoing with a balance cost of 78.48 crores. During 2017-18, an allocation of Rs 29.89 crore has been approved. Against availability of Rs. 4.45 crore, an amount of Rs. 3.29 crore has been utilized ending Sept., 2017.

## **FINANCING OF URBAN PROJECTS UNDER ADB FUNDING THROUGH ERA:**

To improve/ enhance water supply in urban areas, **24 new** projects costing **1547.54 crores** have been formulated which are being proposed under Externally Aided Projects through ERA in a phased manner.

S.No.	Sector	Priority-I		Priority-II		Total	
		No.	Cost	No.	Cost	No.	Cost
1	PHE Jammu	3	362.00	6	276.06	9	638.06
2	PHE Kashmir	8	482.52	6	315.98	14	798.50
3	Irrigation Jammu	1	111.00	--	--	1	111.18
	Total	<b>12</b>	<b>955.52</b>	<b>12</b>	<b>592.04</b>	<b>24</b>	<b>1547.56</b>

For availing loan under ADB, following urban reforms under Urban Water Supply System is pre-requisite:

- Installation of SCADA system and plugging of leakages;
- Water Metering for billing efficiency and regulated tariff collection;
- Improvement in Revenue collection by introducing water utility in business model
- Reduction of Non-Revenue Water
- Improvement of quality of water through advance filtration

Accordingly, project proposals have been formulated in tune with ADB mandated reforms.

## **CONSTRUCTION OF PROTECTION WORKS ON VULNERABLE SPOTS DOWNSTREAM STEEL BRIDGE AKHNOOR ON THE LEFT & RIGHT BANKS OF RIVER CHENAB**

A detailed Project Report amounting to Rs. 195.71 crores for the Construction of protection works on vulnerable spots downstream Steel Bridge Akhnoor on the left & right banks of River Chenab has been prepared and submitted to CWC for technical appraisal which is under consideration and shall be further submitted to GOI for sanction of CA under FMP. Out of the State share, State Govt. has released an amount of Rs. 15.00 crores in the financial year 2016-17.

64 Nos. of works amounting to Rs. 30.84 Crores were taken up for the most vulnerable spots on the left and right banks of river Chenab in villages Sangrampur, Chak Sikander, Maira, Sitriwala, Indri, Gair, Bakore, Pangali, Garkhal, Sajwal and Gujral.

### **Ujh Multipurpose Project [UMP]**

Ujh Multipurpose project was envisaged to construct a 116 mt high CFR dam across river Ujh, a main tributary of Ravi River, in Kathua district. The project estimated to cost Rs. 3630.67 Cr, envisaged to provide hydro power benefit of 212 MW / 196 MW irrigate 31380 ha and supply drinking water to Kathua District.

However, there was resentment from the local population due to submergence Central Water Commission, GoI constituted a team to explore the alternate options with reduced submergence / displacement along with minimum loss of power and irrigation benefits so that potential of Eastern rivers may be utilized as per Indus Water Treaty.

It was concluded that if dam height reduced to 110 m, the corresponding submergence area and number of affected houses will be 34.493 sq km and 1698 respectively. The installed capacity will get reduced to 162 MW.

In a recent meeting held under the chairmanship of Principal Secretary to HPM, CWC has been directed to prepare a modified DPR with reduced height of Dam I.e. 110 meters.

The State Govt. has accorded in principal approval to the execution of Ujh Multipurpose project on 11-8-2017.

### **WSS PILGRIM TOWN KATRA FROM DHANSAR NALLAH:**

WSS Pilgrim Town Katra from Dhansar Nallah has been commissioned and 6 lac gallons of water added to existing system making total availability for Katra town of 14 lac gallons day sufficing the present requiring.

#### **Salient features:-**

- The scheme has been commissioned and made partially functional.
- At present only 6.00 lac gallons of water is added to the existing system of Katra Town thus meeting the total requirement of Katra Town which is 14.00 LGPD at present.
- The designed discharge capacity under the scheme up to the year 2025 is 8.00 LGPD.

### **DEVELOPMENT OF WATERWAYS IN J&K STATE:**

➤ Government of India has declared 106 waterways, as National Waterways. Among these, 04 river of J&K viz., Chenab, Indus, Jhelum, and Ravi have also been declared as National Waterways.

These Waterways shall be taken up for development in a phased manner. At present consultants have been appointed by Inland Waterways Authority of India (IWAI), who are preparing feasibility cum detailed project reports for inland navigation and construction of horizontal/vertical terminals across these Waterways.

The IWAI has completed their survey and investigation from Sangam Anantnag to Baniyari i.e. Wullar entry , covering a length of 110 Kms.

### **CAPEX BUDGET 2017-18:-**

- Under Capex Budget 2017-18, an allocation of Rs. 354.22 crore have been approved under PHE Sector which includes Rs. 260 crore under CSS, Rs. 92.22 crore under Regular /State Share and Rs. 2 crore under loan component. Against the availability of Rs. 138.30 core, an amount of **Rs. 63.18 crore** have been utilized ending Sept., 2017.
- Under Irrigation Sector, an amount of Rs. 191.44 crore have been approved during 2017-18 which includes Rs. 130.96 crore under CSS, Rs. 53.98 crore under Regular /State Share and Rs. 6.50 crore under loan component. Against the availability of Rs. 42.17 crore, Rs. **20.90 crore** have been utilized ending Sept. 2017.
- Under Flood Control Sector, an amount of Rs. 154.40 crore have been approved during 2017-18 which includes Rs. 107.44 crore under CSS, Rs. 42.96 crore under Regular/State Share and Rs. 4.00 crore under loan component. Against the availability of Rs. 21.48 crore, an amount of **Rs. 15.23 crore** have been utilized ending Sept., 2017.
- Rs. 883.00 crore have been earmarked under PMDP for Flood Management of Jehlum. Against the availability of Rs. 20.76 crore ending Sept., 2017, Rs. **16.56 crore** stand utilized.
- An amount of Rs. 40.23 crore has been availed from the Planning Dev. & Monitoring Deptt. for various urgent nature works which are detailed hereunder:-
  - Purchase of Dredgers & other allied works Rs. 26.00 crore
  - WSS Tangnar Rs. 3.47 crore
  - Purchase of Geo Bags Rs. 2.00 crore
  - Replacement of worn-out machinery of 65 T/Wells in Basholi Constituency Rs. 0.50 crore
  - Operationalization of Tube Wells in Jammu Rs. 3.00 crore
  - WSS Kheribal Rs. 1.66 crore
  - WSS regional Shangus Rs. 1.00 crore

### **OTHER INITIATIVES:**

- Long awaited Comprehensive study of river morphology of Jehlum and Tawi has been commissioned, through Relief & Rehabilitation Deptt. (World Bank funding) its findings will be helpful to devise management & control measures for tackling floods in both rivers.
- State Water Policy has been drafted which is presently being securitized by the Cabinet Sub-committee.

**ACHIEVEMENTS MADE UNDER SOFT ACTIVITIES THROUGH  
COMMUNICATION & CAPACITY DEVELOPMENT UNIT (CCDU)**

S. No.	Particular	Target 2017-18	Target Achieved	Total Cost (In lacs )
1	Mass Media: (Print & Electronic)	25393	3346	187.36
2	Mid-media activities: (Exhibition in Mela)	22	22	22.00
3	Reminder Media: Wall Paintings; Hoarding;	1000	187	75.00
4	Advocacy Workshop (District wise & Constituency-wise )	109	109	109.00
5	IEC in School (School Rallies & painting Competition)	66	66	9.98

Awareness campaigns conducted during Amaranth Yatra, & Mela Kheer Bhawani through

**Reforms:-**

The Department is contemplating to initiate following reforms for infusing efficiency, transparency & better monitoring in the working of the Deptt.:

- Computerization of stocks and stores & all the stores in the State will be covered.
- MIS for monitoring of works will be used for monitoring physical execution of works.
- Draft State Water Policy has been put in the public domain for feedback.
- Protocol for water testing to be laid out, so that water testing is to be carried out in all the areas; till State level laboratories are made functional, sampling of water on random basis will be carried through IIIM ( earlier known as RRL) as a cross-check.  
A mobile van will be put in service very soon for collection of samples & carrying on spot tests, doubtful cases will be referred to State Labs or IIIM.
- Long awaited Comprehensive study of river morphology of Jehlum and Tawi has been commissioned, through Relief & Rehabilitation Deptt. ( World Bank funding) its findings will be helpful to devise management & control measures for tackling floods in both rivers.



- Early Warning System will also be placed for Jehlum, Tawi and Chenab in the foreseeable future. DPRs have already been submitted to Gol.