

## CHAPTER 8 - WATER RESOURCES MANAGEMENT AND ENVIRONMENT

### Jal Jeevan Mission (JJM) ( Har Ghar Jal)

- The Government of India has launched Jal Jeevan Mission (JJM), which aims at providing **Functional Household Tap Connection (FHTC) to every rural household by 2024**. Under Jal Jeevan Mission 327 schemes for `2,896.54 crore have been approved.
- It is a mission of **Department of Drinking Water & Sanitation Ministry of Jal Shakti**.
- There are 13,48,841 households in the State, out of which 7,88,832 household connections have been provided under rural water supply programme. Thus **58.48 percent households** have been provided with domestic connection against a **national average of 18.51 percent** households.

### **Hand Pump Programme**

- It aims to provide hand pumps mainly **to the regions facing scarcity of water during summer season**. Total 39,157 hand pumps have been installed up to March, 2019. During the year 2019-20, 263 hand pumps have been installed upto November, 2019.

### **Irrigation**

- Out of the total geographical area of 55.67 lakh hectare of Himachal Pradesh, 5.83 lakh hectare is the net area sown. It is estimated that ultimate irrigation potential of the State is approximately 3.35 lakh hectare, out of this 0.50 lakh hectare can be brought out under irrigation through major and medium irrigation projects and balance 2.85 lakh hectare of area can be provided irrigation through minor irrigation schemes. 2.80 lakh hectare land has been brought under the irrigation facility upto December, 2019.

### **Major and Medium Irrigation**

- The **only major irrigation project** in the State is **Shahnehar Project in Kangra District**. The project has been completed and irrigation facility to 15,287 hectare land is being provided.
- Under **Medium Irrigation Projects**, **Changer area Bilaspur** (2,350 hectare), **Sidhatha Kangra** (3,150 hectare) and **Balh Valley Left Bank** (2,780 hectare) has been completed.
- At present work of Medium Irrigation Project **Phinna Singh , Nurpur, Kangra** ( 4,025 hectare) and the **Nadaun** area in District Hamirpur (2,980 hectare) is in progress.
- **Flood Control Works** : The work for channelization of **Swan Phase-IV** (UNA) and **Chouch Khad** ( Kangra) is in progress.

## Environment, Science and Technology

### Plastic Waste Management

- State Government has conducted various awareness campaigns about ill effects of Plastic Pollution: "**Polythene Hatao, Paryavaran Bachao**", "**Swachhata Hi-Sewa**".
- A new **buy-back Policy for non-recyclable plastic waste** has been introduced, wherein students, volunteers of Nehru Yuva Kendra & NGOs, PRIs, ULBs and State Departments participated. The Plastic waste collected during this campaign was scientifically disposed off in road construction and used as RDF/Fuel by cement industries.
- (**RDF** stands for **Refuse Derived Fuel**. This **fuel** is produced from combustible components that the industry calls Municipal Solid Waste).

The H.P. government had launched **Polythene Hatao Paryavaran Bachao Abhiyaan** in May 2018 under which price fixed was Rs 3 to Rs 4 per kg for purchase of plastic but it failed to yield the desired results as it was not remunerative compared to the effort that went into collection the plastic waste. "Since it takes almost two to three hours for a rag picker to collect one-kg plastic waste, it was imperative to give him at least minimum wages.

Then in Oct 2019, HP govt had launched a new **buy-back Policy for non-recyclable plastic waste** under which govt would purchase non-recyclable plastic and single use plastic waste and bags at Rs 75 per kg at its collection centres to be run by the urban local bodies across the state. This scheme aimed at controlling environmental degradation. The plastic waste thus generated would be put to use in road construction, which will result in the Public Works Department saving up to Rs 35,000 to Rs 50,000 per km. Besides, the plastic would be used to generate energy in cement plants. The cost of transportation of the plastic would be borne by the urban local bodies and collection centres have already been notified at 14 places. The minimum support price of Rs 75 per kg would be applicable to non-recyclable and single use plastic waste like packaging of chips, milk, oil pouches, toffees, biscuits, chocolates, confectionary items, wrappers and readymade cloth packaging.

'**Swachhta Hi Seva**', is an initiative of the Swachh Bharat Mission which aims to generate greater public participation, reinforce the concept of "sanitation as everyone's business" and culminate Mahatma Gandhi's 150th birth year celebration with a nationwide campaign.

- The State Government has strictly **banned use and littering of plastic items**. In addition to one time use of "**Plastic & Thermocol Cutlery**". In the year 2019-20, ` 13.50 lakh of fine has been compounded from 1,603 violators.

- The State government has also developed an **online mechanism for day to day monitoring of solid waste generation and its disposal** by the local Urban Bodies for reducing environmental pollution and promote safe disposal of municipal solid waste.

### **State Knowledge Cell on Climate Change**

- A State Knowledge Cell on Climate Change has been set up in the **Department of Environment, Science and Technology**, Himachal Pradesh with the assistance of Department of Environment, Science and Technology, Government of India under **National Mission for Sustaining Himalayan Ecosystems (NMSHE)**. Climate Change vulnerability assessment is being undertaken for **Beas River Basin** covering four districts viz. **Kullu, Mandi, Hamirpur and Kangra** covering 9,258 villages of more than 1,200 Panchayats.

### **Implementation of project Sanctioned under National Adaptation Fund Climate Change (NAFCC)**

- A programme under National Adaptation Fund for Climate is **being implemented in drought prone areas of three development blocks of district Sirmaur** with the financial outlay of ` **20.00 crore**. The project will be implemented in 5 years.
- One project proposal of ` 20.49 crore on **"Reducing Glacial Outburst and Flood Risk in Parvati Valley of Kullu district**, Himachal Pradesh" has been approved by the Ministry of Environment, Forest & Climate Change, Government of India.
- A project proposal of 250.00 crore on **"Securing Rural Livelihood through Biodiversity Conservation & Landscape Management- Skill development for two districts** of Himachal Pradesh" for funding has also been approved by Department of Economic Affairs, Government of India and forwarded to **German KFW**.

### **State Level Environment Leadership Award**

- Himachal Pradesh Environment Leadership Award scheme is **regular scheme of the Department of Environment, Science & Technology**.
- 18 awards amounting to ` 6.25 lakhs have been given to the prize winners (7 awards were 1st prizes of ` 50,000 each and 11 awards were 2nd prizes of ` 25,000 each) including 9 certificates of appreciation.

### **Creation of Eco Villages an Environment Sound Sustainable**

- The State Government through Department of Environment, Science & Technology is implementing **Model Eco Villages scheme** in the State. This scheme is focusing towards the perspective of developing low impact lifestyle as to reduce the "ecological footprint" by as much as 50% of the base assessment from the launch of the scheme.

- Under this scheme ` **50.00 lakh will be utilized over a period of 5 years by the identified village** for adoption of Model Eco village scheme. There are **11 villages identified** in all over the state where this scheme is being implemented as per approved Eco Village development Plans.

### **Setting up of bio-methanation plan at Kufri, Shimla.**

- The department is setting up **2.5 MTPD bio-methanation plant** using **horse dung/biodegradable waste from hotels and residential areas to generate biogas/bio CNG on trunkway** and end to end basis (waste collection till disposal) at **Kufri, Shimla**.
- MoU has been signed with the expert agency and ` 60.00 lakh has been earmarked for the purpose in the financial year 2019-20.

### **Setting up of 10 demonstration Micro Municipal Solid Waste management facilities**

- Department of Environment, Science & Technology will setup 10 demonstration Municipal Solid Waste management facilities through expert agencies having capacity to dispose of approximately 0.50 tons to 5 tons of waste to be installed at 10 different locations in Himachal Pradesh as pilot project on PPP mode. Proposal for funding of ` 4.50 crore by MoEF&CC, Government of India has been approved in principle.

## **INITIATIVES OF ENVIRONMENT, SCIENCE AND TECHNOLOGY**

### **Department to protect Environment**

- In order to check illegal mining and for better management and monitoring of mining leases in the State, the Government has developed an **online Geo-portal platform** to facilitate better enforcement of regulations in addition to monitoring the mining activities within distance of 500 meters.
- The State Government has developed **working network platform for NGOs** working in the field of climate change, environment and ecological protection for their better engagement in various developmental activities, training and capacity building. To educate people about the ill effects of the sound pollution "**Horn not Ok**" campaign was launched in two towns **Shimla** and **Manali** and in order to facilitate the common public to file complaints w.r.t. noise pollution in the State, a mobile application "**Shor Nahin**" has been developed for android and i-phone users. Till date more than 645 users have been registered on mobile app.

### **Biotechnology Division**

- The State Government has notified **Biotechnology Policy in 2014**. As per the State Biotechnology Policy, the Government is poised to make Himachal Pradesh into a prosperous Himalayan Bio-Business hub through the promotion of Biotechnology in the areas of Agriculture, Horticulture, Animal Husbandry, Health and Bio- resource Utilization for the development of State.

### Conservation of Bio-resources

- Under the scheme conservation of Bio-resources, plants of **Valeriana, Kuth and Damsuk Rose** were distributed to two registered societies of farmers from **Mandi and Shimla**.
- 23,600 plants of valeriana and 850 plants of Kuth were distributed to **Shiv Aushdhiya Poudh Utpadan Society, Rajgarh, Gumna, Tehsil, District Shimla, H.P.**
- 10,500 plants of valeriana and 8,000 plants of Damsuk Rose were distributed to **Bhuja Rishi Kisan Vikas Committee, Shilli Bagi, Thunag, Mandi, H.P.**

## **Chapter 9 : INDUSTRIES AND MINING**

- It contributes about **30 per cent** of total Gross State Value Added (GVA).
- During the last few years Himachal Pradesh has made significant achievements in the field of industrialization. The period of Industrial Policy Package of Govt. of India had seen Himachal Pradesh entering the take off stage with a well-diversified industrial base

### Status of Industrialization

- As on November, 2019, there were 54,310 Industrial units established in the State with an investment of approximately ` 49,974 crore providing employment to around 4.52 lakh people. Out of these 140 Industrial Units are Large and 628 are Medium Scale Units.

### Trends in Industrial Sector

Sector	2014-15	2015-16	2016-17	2017-18	2018-19
Manufacturing	26.69	27.22	28.94	29.95	29.79
Mining & Quarrying	0.33	0.32	0.64	0.59	0.53

**Source: O/O Economic Adviser, Govt. of H.P.**

### Development of Industrial Areas/ Estates

- Industrial area at **Chanor, Kangra** is coming up for which land has been transferred in the name of Industries Department and 6.95 crore has been sanctioned for protection work and channelization of a *khad* (stream) adjoining to this industrial area.

### Attracting Investment

- A mega **Global Investors Meet** was organized at **Dharamshala, Kangra** on **7th & 8th November, 2019** to attract the investors in Himachal Pradesh in various sectors. Against the target of `85,000 crore, **703 MoUs worth**

₹ 96,000 crore were signed by the investors, who wish to setup their projects in Himachal Pradesh. Himachal Pradesh organized the first **Ground Breaking Ceremony at Shimla** on 27th December, 2019 for 251 projects amounting to ₹ 13,600 crore.

### **Prime Minister's Employment Generation Programme (PMEGP)**

- Under this scheme as on December, 2019 against the target of 1,181 cases, 766 cases have been provided loan from different banks involving a margin money disbursement of ₹ 21.10 crore.

### **Mukhyamantri Swavlamban Yojna (MMSY)**

- Mukhyamantri Swavlamban Yojna, has been launched to provide self employment opportunities to Himachali youths. During this year 687 cases involving a subsidy amount of ₹ 27.94 crore have been sanctioned by the banks **to help young Entrepreneurs to start their self employment ventures.**

### **Himachal State Food Mission**

- During this Financial Year 2019-20, under "Himachal State Food Mission" 35 Projects were sanctioned involving grant-in-aid of ₹ 8.09 crore.

### **Sericulture Industry**

- Sericulture is one of the important agro-based rural cottage industries of the Pradesh that is providing gainful employment to about **10,485 rural families** for supplementing their income by producing Silk Cocoons. **14 silk yarn reeling units have been set up in private sector i.e. district Kangra and Bilaspur five each, in Hamirpur, Mandi, Una and Sirmour one each** with the **assistance of Government.**

### **Mining**

- State Government is committed to exploiting the mineral deposits in the State for ushering in economic development in the interior and backward regions of the State. **Stringent action is being taken to check illegal mining.**
- 5,602 cases of illegal mining were detected during the Financial Year 2019-20, and consequently ₹ 3.81 crore have been received as fine/compounding fee.

### **Ease of Doing Business**

- Government of Himachal Pradesh has taken several industries specific reform initiatives which have significantly improved the overall business environment. In order to improve the ease of doing business, emphasis has been on **simplification and rationalization** of the existing rules and introduction of **information technology** to make governance more efficient and effective. **Single Window Portal** has been made fully operational and all the industry related services have been integrated under Single Window Portal of the Industries Department, which will act as one stop interface with the investors. **Strict time-lines** shall be adhered to by all departments backed by Statute and Public Service Guarantee Act for online clearance of the projects.

Himachal has been ranked as number ONE State among "Fast Moving States".

## Chapter 10 : LABOUR AND EMPLOYMENT

### Employment

- **As per 2011 Census :**
- 30.05 % : main workers
- 21.80 % : marginal workers
- 48.15 % : non-workers
- Out of the total workers (main+marginal), 57.93 percent are cultivators and 4.92 percent agricultural labourers, 1.65 percent are engaged in household industry and 35.50 percent in other activities.
- The employment assistance/ information service to job seekers in the Pradesh is rendered through 3 Regional Employment Exchanges, 9 District Employment Exchanges, 2 University Employment Information and Guidance Bureaus, 64 Sub-Employment Exchanges, 1 Special Employment Exchange for Physically Handicapped, 1 Central Employment Cell.
- All 76 Employment Exchanges have been computerized and 73 Employment Exchanges are online.

### Minimum wages

- Himachal Pradesh Government has constituted a Minimum Wages Advisory Board under the Minimum Wages Act-1948 for the purpose of advising the State Government in the matter of fixing and revising the minimum rates of wages for the workers. The State Government has enhanced the minimum wages for unskilled category of workers from ` 225 to ` 250 per day or ` 6,750 to ` 7,500 per month w.e.f. 01.04.2019, in all existing 19 scheduled employments under the provision of Minimum Wages Act, 1948.
- At the district level, the employment data is being collected under the Employment Market Information Programme since 1960.
- **The total employment in the State as on 31.03.2019 :**
- Public Sector : 2,75,177 ( 4,399 establishments)
- Private sector : 1,78,369 (1,813 establishments)

### Vocational Guidance

- The Department of Labour and Employment provides Vocational/ Career Guidance to the youth of the State.
- Upto 31 Dec .2019, 300 vocational/career guidance camps have been organized by the Department and 37,384 youth participated in these camps.

**Central Employment Cell** has been set up in the Directorate of Labour and Employment of the State.

- The Central Employment Cell has organized **98 Campus Interviews** wherein 1,869 candidates have been placed and **Seven Job Fairs** have also been organized by the department where in 2,957 candidates were placed in

employment in different Industries in the State during the Financial Year 2019-20 (up to December, 2019).

**The special employment exchange specially abled persons** (visually disabled, hearing disabled and locomotor disabled) was set up **in the Directorate of Labour and Employment during the year, 1976** which provides assistance to the specially abled candidates in the field of vocational guidance and also provides employment assistance in Public and Private Sector.

### **Employees Insurance and Provident Fund Scheme**

- The Employees State Insurance is applicable in the areas of :
- Solan, Parwanoo, Barotiwala, Nalagarh, Baddi in Solan District.
- Mehatpur, Bathri and Gagret in Una District.
- Paonta Sahib and Kala Amb in Sirmaur District.
- Golthai in Bliaspur District.
- Mandi, Ratti, Ner Chowk, Bhangrotu, Chakkar and Gutkar in Mandi District
- Industrial Area Shoghi and Municipal area of Shimla in District Shimla.
- About 9,733 establishments with an estimated 3,14,720 insured persons are covered under ESI Scheme in Himachal Pradesh and under Employees Provident Fund scheme about 15,80,258 workers have been brought in 18,443 establishments up to March,2019.

### **'Building and Other Construction Workers (RE and CS) ACT-1996 and Cess Act- 1996'**

- Under this act, various provisions have been made to implement welfare schemes such as providing maternity/paternity benefits, Disability Pension, Retirement Pension, Family Pension, Medical Assistance, Financial Assistance for marriage of self and up to two children ,Skill Development Allowance, providing bicycles and washing machines to women workers, providing induction heater or solar cooker and solar lamp to beneficiaries.
- About 2,082 establishments are registered with the Department of Labour & Employment and 1,98,556 beneficiaries are registered with the **Himachal Pradesh Building and Other Construction Workers Welfare Board Shimla.**

### **Skill Development Allowance Scheme**

- During 2019-20 Financial Year , a budgetary provision of ` 100 crore has been made under Skill Development Allowance Scheme. Under this scheme there is provision of Skill Development Allowance to the eligible un-employed youth of the State for their Skill Up gradation and increasing their employability. This Allowance is payable @ ` **1,000 per month** and for **50 percent or more permanent physically challenged @ ` 1,500 per month** for duration of skill Development Training subject to **maximum period of two years.**

### **Unemployment Allowance Scheme**

- Under this scheme there is provision of allowance to the eligible unemployed youth to enable them to sustain themselves for a certain period of ` 1,000 per month and for 50 percent or more permanent physically challenged ` 1,500 per month for a maximum period of 2 years.



### Employment Exchange Information

- During this financial year upto December, 2019 1,96,104 applicants were registered and 1,079 placement were done in Government sector against notified vacancies 1,369 and 5,332 placed in private sector against notified vacancies 6,984.

### Himachal Pradesh Kaushal Vikas Nigam (HPKVN)

- **HPKVN** was established with a mission "To bolster the employable skills and livelihood potential of the state's young generation (15-35 years) and equip them for continuous growth and learning in a changing job and entrepreneurial environment in India and the World". Himachal Pradesh Kaushal Vikas Nigam (HPKVN) is the primary implementing agency of the Himachal Pradesh Skills Development Project (HPSDP), the flagship employment and livelihoods scheme of the Government of Himachal Pradesh. It is also the State implementation partner of the Pradhan Mantri Kaushal Vikas Yojana (PMKVY).
- It aims to enhance the technical and vocational skills of youth in the state through education and training. HPKVN's immediate goal is to train over a lakh young men and women in the period 2018-22.
- A short **term pilot training programme** was rolled out in **December, 2016** across **8 sectors** with the objective of training.
- The Department of Higher Education (DOHE) has introduced the B.Voc. ( **Bachelor of Vocational Studies**) Program in 12 Government colleges of the state namely, Govt. College Bilaspur, Chamba, Dharamshala (Kangra), Nurpur (Kangra), Kullu, Mandi, Sanjauli (Shimla), Rampur (Shimla), Una, Hamirpur, Solan and Nahan(Sirmour) from academic year 2017-18.
- The programme is currently available in two vocational streams: Retail Management and Tourism & Hospitality. It is being implemented with the help of 4 Training Service Providers (TSPs).

### Pradhan Mantri Kaushal Vikas Yojana (PMKVY) :

- HPKVN is currently implementing the PMKVY 2.0 Centrally Sponsored State Managed (CSSM) Programme across 15 sectors with 22 training Service Providers. The programme aims to train the youth of HP in industry-relevant, NSQF-aligned courses with support from NSDC and Ministry of Skill Development and Entrepreneurship (Government of India).
- **Other programmes of HPKVN**
- **Setting up of Center of Excellence (CoE):**
- In order to create institutional framework for long term skill development needs of the state a Center of Excellence (CoE) is being setup at Waknaghat, Solan with an estimated cost of ` 68.00 crore under ADB assisted Himachal Pradesh Skill Development Project. This institution will provide high quality training in Hospitality and Tourism sector.
- **MoU's with reputed Government Training Institutions:**

- With a view to focus on high and aspirational skilling, HPKVN has signed MoU's with various Government Institutions and Public Universities like NIELIT, CDAC, CTR, NIFM, Himachal Pradesh University, ICAI, University of Horticulture & Forestry and NIFTEM for imparting training to around **7,370 Himachali youth** in higher aspiration industry driven job roles like Artificial Intelligence, Web Designing, Machine Learning, Advanced Tax laws etc.
- **Training Programme under English, Employability and Entrepreneurship Skills and BFSI Sector:**
- HPKVN has targeted to impart training in English, Employability & Entrepreneurship Skills and BFSI (Banking, financial services and insurance ) Sector in government Colleges/State Public Universities of Himachal Pradesh from the Academic Session 2020-21. The training programme shall be covering 4,700 students/ candidates under English, Employability & Entrepreneurship Skills programme and 5,000 students over three years in BFSI Sector.
- **Up-gradation of Tools & Equipments in 50 ITI's, Women Polytechnic Rehan (Kangra) and Government Engineering Colleges:**
- The HPSDP (Himachal Pradesh Skill Development Project ) is also facilitating the up-gradation of 50 ITI's where 23 trades shall convert from SCVT (State Council of Vocational Training to NCVT (National Council of Vocational Training ) certificates. This shall benefit 23,000 students. An amount of ` 93.00 crore is to be spent during the financial year 2020-21 under the project.
- **Short Term Training Programmes through Government Industrial training Institutions (ITI's) of Himachal Pradesh:**
- HPKVN under its HP Skill Development Project has started short term up skilling and multi skilling training in 38 ITI's and more than 4,500 students have been enrolled in various sectors such as Automotive, Construction, Plumbing, IT-ITes, Capital Goods, Apparel & Made-ups, Electronics & Hardware, Beauty & Wellness, Iron & Steel, Media & Entertainment etc. This is aimed at creating a multi skilled workforce with higher employability potential both in industry and self employment sectors.
- **Graduate job Training programs:**
- To increase the employability of final year graduating students of 13 Govt. degree Colleges, HPKVN has introduced a NSQF aligned graduate add on training program in sectors complementing their core studies. For eg - BFSI, Electronics, IT, Beauty & Wellness and Apparel sectors.
- More than 500 students in 5 colleges have completed their training during the year 2019-20. Presently, 1,590 students are undertaking training in 13 colleges across the state. During the Academic Year 2020-21, 15 more Government degree Colleges would be covered for training 5500 students under graduate Job Training Programme.
- **Other Short Term Training Programmes through Training Service Providers (TSP's):**
- HPKVN has on-boarded Training Service Providers to impart skills training to more than 8,000 youth of Himachal Pradesh on various sectors such as Automobile, Manufacturing, Power, Construction and Plumbing, BFSI, IT-ITes,



Electronics, Healthcare, Tourism & Hospitality etc. on the year 2019-20. In addition to this more than 12,000 youths are to be trained in the year 2020-21.

- **Livelihood based Skill training of Persons with Disability (PWD):**
- HPKVN has launched '**Nav Dharaana**'- a livelihood based training programme for persons with disabilities for nurturing employment and entrepreneurship skills amongst the differently abled persons. Process for selection of Training Service Provider for training approximately 300 PWDs in Retail, Hospitality, Agriculture and Food Processing sectors is in progress.
- **City Livelihood Centers (CLCs), Rural Livelihood Centers (RLCs) and Model Career Centers (MCC):**
- In order **to provide institutional support for skill development activities** across the state the construction of City Livelihood Centers (CLCs), Rural Livelihood Centers (RLCs) and Model Career Centers (MCC) are under progress. Construction work of **CLC Sundernagar (Mandi), CLC Shamshi (Kullu) and RLC Sadiyana (Mandi)** has been completed and training in these CLCs and RLCs are to be initiated soon. In addition to this **9 MCCs** are being constructed/renovated in association with **Department of Labour & Employment** to provide the Himachal youth with proper career counseling support to match their aspirations with their vacation and also to provide them **access to National Career Portal for job opportunities across the country.**