

National Mission for Clean Ganga

Format for Submission of Monthly Progress Report by State of HP for the month of September-2020 (Hon'ble NGT in the matter of OA. No. 673/2018 dated 06.12.2019)

Sr. No.	Activity to be monitored	Timeline	Submission of Progress by State/ UT- Compliance Status			
1.	Ensure 100 % treatment of sewage at least in-situ remediation	31.12.2020	The work for Priority-I started and civil work and plantation work is completed and construction of tank is under progress. The tender work for Priority-II has been awarded.			
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.12.2020 (Priority-I & II)	The Progress report for setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs for all Priority Stretches is as under:			
		31.03.2021 (Priority-III)				
		Sr. No.				
1.	SUKHNA Nallah Stretch (Priority - I):- Parwanoo Town	Sewage Treatment Plant Proposal (2 No of 1 MLD capacity each including laying of sewerage lines in Zone-I and Zone-II in Parwanoo Town.	<ul style="list-style-type: none"> • Sewer pipes has been procured. • Land development work started for 1st STP. 			
2.	River MARKANDA Stretch (Priority II):	Kala Amb and Moginand Area: Laying of Sewerage Network and Pre-treatment of Sewage.	<ul style="list-style-type: none"> • Work of Laying of network is in progress. • 1650m sewer line laid till date. 			
		Trilokpur Area: Laying of Sewerage Network & Setting up of Sewage Treatment Plant of 1 MLD capacity.	<ul style="list-style-type: none"> • 3.6 km sewer line has been laid. • Precast manhole chambers & covers have been procured. 			

			3.	River Sirsa Stretch (Priority III)	Execution of project proposal for sewage management by laying of pipelines and installation and commissioning of STP at Nalagarh of capacity 3.62 MLD.	<ul style="list-style-type: none"> • STP has been completed and commissioned. • The Sewerage connections are being released. • The Tender work for laying additional pipelines to cover near about areas has been awarded and work is in progress.
					Proper design, execution of Sewerage lines and Pretreatment of Sewage to be incorporated in CETP, Baddi. The capacity is 5.5 MLD.	<ul style="list-style-type: none"> • The Sewerage connections are being released and sewage is also received CETP, Baddi. • The Tender work for laying additional pipelines to cover near about areas has been awarded and work is in progress.
			4.	Ashwani Khad (Priority V)	The up-gradation of existing 3 STPs by providing Sequencing Batch Reactor (SBR) technology.	<ul style="list-style-type: none"> • The work for upgradation of STP has been awarded. • The work of up-gradation of STP Malyana regarding installation of centrifuge (building work) has been started.
					Installation of a new STP of 2 MLD capacity for Panthagati area.	<ul style="list-style-type: none"> • Tender has been awarded. • Soil testing completed. Surveying work is in progress.
			5.	River Beas (Priority V)	Proposal for Sewerage Scheme in Rangri, Manali, District- Kullu.	<ul style="list-style-type: none"> • Tender has been floated and will be opened on 27th October, 2020.
					Proposal for Sewerage Scheme in Marhi, District- Kullu.	<ul style="list-style-type: none"> • Work of laying network for Sewerage Scheme in Marhi is completed. 90% work of STP is completed.
					Proposal for the expansion of existing STP in Manali.	<ul style="list-style-type: none"> • The work for the expansion of existing STP has been started. For the installation of new STP Funds have been received and Hydraulic Design submitted for approval.
					Proposal for Sewerage Scheme in Kullu Town, District- Kullu (Zone-I).	<ul style="list-style-type: none"> • The work for up-gradation of STP (Zone-I & Zone-II), Kullu has been awarded under AMRUT. The design and drawing stand approved. The work is in progress.
					Proposal for Sewerage Scheme in Kullu Town, District- Kullu (Zone-II).	

				<p>Proposal for Sewerage Scheme in Kullu Town, District- Kullu (Zone-III)</p> <p>Proposal for Sewerage Scheme in Bhunter Town, District- Kullu (Zone-III).</p> <p>Proposal for the expansion of existing STPs and installation of New STPs (District- Mandi).</p> <p>Proposal for sewer connection and sewer line up-gradation at Nadaun (District- Hamirpur).</p> <p>Proposal for installation of STP (1.38 MLD) at Dehra, District- Kangra.</p> <p>Proposal for installation of STP (60 KLD) at Industrial area, Kullu.</p>	<ul style="list-style-type: none"> • The work of STPs (Kullu Zone –III and Bhunter Zone-III) completed and are functioning as prescribed norms of CPCB. • Tender has already been floated and was to be opened on 10th October, 2020. • STP commissioned, estimate for additional pipe network approved and work is in progress. • STP has been commissioned. • Connections being released. • The tender has been awarded. 	
			6.	Giri (Priority V)	<p>Installation of three STPs in these areas i.e. one at Theog (1.15 MLD) and two at Kotkhai (0.305 MLD & 0.16).</p>	<ul style="list-style-type: none"> • The work for STP at Theog, and 02 STPs Kotkhai stand completed and commissioned and trial run is in progress.
2.	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	The Time line for completion of all sewage proposals, pertaining to Priority –I (Sukhna Nallah at Parwanoo) and Priority-II (River Markanda at Kala Amb) the timeline is 31.12.2020 and for Priority –V (Ashwani Kaha, River Beas, River Giri and River Pabbar) the timeline is 31.3.2021 .			
3.	Chief Secretaries may set up appropriate monitoring mechanism at State level					
	<ul style="list-style-type: none"> • Specifying accountability of nodal authorities not below the Secretary level. 		The Administrative Secretaries of Industries Deptt., Urban Dev. Deptt., Rural Dev. Deptt., Irrigation & Public Health Deptt. have been made accountable at State level.			
	<ul style="list-style-type: none"> • Chief Secretaries may have an accountable person attached in their office for this purpose. 		The Environment Cell has been notified vide notification No. STE-E (3)-16/2019 dated 19 th February 2020 comprising of MS, PCB, Director, UD, Director, Environment and Joint Secy, (Env.). (copy of notification enclosed)			

	<ul style="list-style-type: none">Monitoring at State level must take place	Fortnightly Commencing 21.12.2019	Regular monitoring of the progress on implementation of Action Plans is being undertaken at Chief Secretary level. Last meeting was held on 6.10.2020 w.r.t. reviewing the status.
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4.	Progress report may be furnished by the States/ UTs to <ul style="list-style-type: none"> Secretary, Ministry of Jal Shakti Member Secretary, CPCB 	Monthly (preferably before 20 th of every month)	<p>The incremental progress report is enclosed as below:-</p> <p style="text-align: center;">1. SUKHNA Nallah Stretch (Priority - I):- Parwanoo Town</p> <table border="1"> <thead> <tr> <th data-bbox="615 313 680 467">Sr. No.</th> <th data-bbox="680 313 869 467">Organization Responsible</th> <th data-bbox="869 313 1285 467">Work proposed for Execution along with cost and final Timeline.</th> <th data-bbox="1285 313 1902 467">Incremental Progress</th> </tr> </thead> <tbody> <tr> <td data-bbox="615 467 680 979">1.</td> <td data-bbox="680 467 869 979"> Irrigation and Public Health Department </td> <td data-bbox="869 467 1285 979"> Sewage Treatment Plant Proposal (2 No of 1 MLD capacity each including laying of sewerage lines in Zone-I and Zone-II in Parwanoo Town. Installation of Continuous Water Quality Monitoring Station. </td> <td data-bbox="1285 467 1902 979"> <ul style="list-style-type: none"> Sewer pipes has been procured. Land development work started for 1st STP. The Online Continuous Water Quality Monitoring Station (OCWQMS) has been installed and online data has been connected to HPSPCB server. </td> </tr> <tr> <td data-bbox="615 979 680 1133"></td> <td data-bbox="680 979 869 1133"></td> <td data-bbox="869 979 1285 1133"> Radar system for depth and flow measurement. </td> <td data-bbox="1285 979 1902 1133"> The system has been provided by IPH and it is installed at River Kaushalya and is functioning properly. </td> </tr> <tr> <td data-bbox="615 1133 680 1388">2.</td> <td data-bbox="680 1133 869 1388"> HIMUDA, Municipal Council, Parwanoo </td> <td data-bbox="869 1133 1285 1388"> Sewage Treatment Plant (1 No. of 70 KLD capacity in Sector - 5 Parwanoo) to cater to the additional load of Septic Tanks catering to the residential area. </td> <td data-bbox="1285 1133 1902 1388"> <ul style="list-style-type: none"> The Sewage Treatment Plant of 70 KLD capacity installed at Sector -5, Parwanoo and also commissioned and is working properly. All the septic tanks have been cleaned. </td> </tr> </tbody> </table>	Sr. No.	Organization Responsible	Work proposed for Execution along with cost and final Timeline.	Incremental Progress	1.	Irrigation and Public Health Department	Sewage Treatment Plant Proposal (2 No of 1 MLD capacity each including laying of sewerage lines in Zone-I and Zone-II in Parwanoo Town. Installation of Continuous Water Quality Monitoring Station.	<ul style="list-style-type: none"> Sewer pipes has been procured. Land development work started for 1st STP. The Online Continuous Water Quality Monitoring Station (OCWQMS) has been installed and online data has been connected to HPSPCB server.			Radar system for depth and flow measurement.	The system has been provided by IPH and it is installed at River Kaushalya and is functioning properly.	2.	HIMUDA, Municipal Council, Parwanoo	Sewage Treatment Plant (1 No. of 70 KLD capacity in Sector - 5 Parwanoo) to cater to the additional load of Septic Tanks catering to the residential area.	<ul style="list-style-type: none"> The Sewage Treatment Plant of 70 KLD capacity installed at Sector -5, Parwanoo and also commissioned and is working properly. All the septic tanks have been cleaned.
Sr. No.	Organization Responsible	Work proposed for Execution along with cost and final Timeline.	Incremental Progress																
1.	Irrigation and Public Health Department	Sewage Treatment Plant Proposal (2 No of 1 MLD capacity each including laying of sewerage lines in Zone-I and Zone-II in Parwanoo Town. Installation of Continuous Water Quality Monitoring Station.	<ul style="list-style-type: none"> Sewer pipes has been procured. Land development work started for 1st STP. The Online Continuous Water Quality Monitoring Station (OCWQMS) has been installed and online data has been connected to HPSPCB server.																
		Radar system for depth and flow measurement.	The system has been provided by IPH and it is installed at River Kaushalya and is functioning properly.																
2.	HIMUDA, Municipal Council, Parwanoo	Sewage Treatment Plant (1 No. of 70 KLD capacity in Sector - 5 Parwanoo) to cater to the additional load of Septic Tanks catering to the residential area.	<ul style="list-style-type: none"> The Sewage Treatment Plant of 70 KLD capacity installed at Sector -5, Parwanoo and also commissioned and is working properly. All the septic tanks have been cleaned. 																

				Cleaning and Overhauling of Septic Tanks.		
			3.	Department of Urban Development	<p>Waste Recovery and Reprocessing of Existing Dumped Waste at Dumping site Sector 5, Parwanoo.</p> <p>Installation of Kiosk for Domestic Hazardous Waste Management.</p>	<ul style="list-style-type: none"> • The legacy waste has been recovered, and dumping site has been cleared. • Domestic Hazardous waste Kiosk has been installed at Parwanoo.
			4	BBNDA, MC Parwanoo & HPSPCB	For collection, Transportation, Processing and disposal of fresh waste at Baddi Cluster.	<ul style="list-style-type: none"> • Facility ready to be commissioned. • The plant has been started on trial basis
			5.	Forest Department	Plantation Proposal	<ul style="list-style-type: none"> • 4400 Plants have been planted in FY 2020-21. • Plants planted: Amla, Ritha, Jamun, SHisham, Behra & Kachnar. • No suitable area available for the construction of Bio-Diversity Park in Parwanoo.
			6.	MC Parwanoo	Phyto-remediation Proposal on Samtel Nallah	<ul style="list-style-type: none"> • Civil work and plantation of plants completed. • Construction of tank is under progress and facility will be completely operational within 1 month.
			7.	HPSPCB	Inventorization of Wastewater generating Industries and Legal Action against Non-complying Industrial Units	<ul style="list-style-type: none"> • The inventorization is completed, 48 Nos of Water Polluting industries exists.

8.	Health Department	Health Camps and Health Study on the catchment of River.	• No Health Camps conducted due to Covid-19 pandemic.
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2. River MARKANDA Stretch (Priority II):

Sr. No.	Organization Responsible	Work proposed for Execution along with cost and final Timeline.	Incremental Progress
1.	Irrigation and Public Health Department & Industries Department	Kala Amb and Moginand Area: Laying of Sewerage Network and Pre-treatment of Sewage.	<ul style="list-style-type: none"> • Work of Laying of network is in progress. • 1650m sewer line laid till date.
		Trilokpur Area: Laying of Sewerage Network & Setting up of Sewage Treatment Plants.	<ul style="list-style-type: none"> • Sewer pipes procured for sewer line. • The land handed over to contractor. • The hydraulic design has been approved by the competent authority. • 3.6 km sewer line has been laid. • Precast manhole chambers & covers have been procured. • The fund from Bala Sundari Temple Trust to be paid in four equal instalments and 1st instalment amounting ₹50 Lakhs has been provided.

			2.	Irrigation and Public Health Department	Installation of Continuous Water Quality Monitoring Station	The Online Continuous Water Quality Monitoring Station (OCWQMS) has been installed.
			3.	Department of Industries.	Kala Amb area : Proposal for setting up of CETP.	<ul style="list-style-type: none"> • Tender has been awarded on 31st August 2020.
			4.	Special Area Development Authority, Kala Amb, District Administration, Rural Development Department.	Proposal for setting up of Solid Waste Management Facility.	<ul style="list-style-type: none"> • The construction of Shed has been started. Excavation work for foundation is completed. The construction work could not be carried out due to rains and has been started on 11.09.2020. • The electricity connection has been installed. • Water connection has also been applied and shall be installed after completion of work of shed.
			5.	Forest Department	Plantation Proposal	<ul style="list-style-type: none"> • 9600 plants planted during FY-2020-21. • Plants planted: Khair, Kachnar, Behra Amla & <u>Shisham</u>. • A Vertical Garden with 2000 plantation done. • <u>Bio-Diversity Park in Kala Amb:</u> • Rs. 55 lakhs allotted. Work of fencing is completed.

				<ul style="list-style-type: none"> • Remaining work to be completed by Jan, 2021.
6	IPH Department	Phyto-remediation Proposal on Jattan Wala Nallah		<ul style="list-style-type: none"> • Tender has been awarded and work has been started.
7	HPSPCB	Inventorization of Wastewater generating Industries and Legal Action against Non-complying Industrial Units		<ul style="list-style-type: none"> • The inventorization is completed, 94 Nos of Water Polluting industries exists.
8	Health Department	Health Camps and Health Study on the catchment of River.		<ul style="list-style-type: none"> • No Health Camps conducted due to Covid-19 pandemic.

3. River SIRSA Stretch (Priority III):-

Sr. No.	Organization Responsible	Work proposed for Execution along with cost and final Timeline.	Incremental Progress
1.	Irrigation and Public Health Department and Urban Development Department	Execution of project proposal for sewage management by laying of pipelines and installation and commissioning of STP at Nalagarh.	<ul style="list-style-type: none"> • STP has been completed and commissioned. • The Sewerage connections are being released. • The Tender for laying additional pipelines has been awarded and the work is in progress. • Out of total 2510 connections, 250 have been sanctioned. • ₹1 crore has been allotted.
		Proper design, execution of Sewerage lines to be incorporated in CETP, Baddi.	<ul style="list-style-type: none"> • Laying of sewerage network and testing is completed. • The Sewerage connections are released and sewage is also received CETP, Baddi. • The Tender for laying additional pipelines has been awarded and the work is in progress. • Total 3744 sewerage connections identified.

				<p>Irrigation and Public Health Department</p> <p>To undertake channelization of River Sirsa from Sitomajri to Sainimajra (Nalagarh) including main drains contributing to River Sirsa.</p>	<ul style="list-style-type: none"> • DPR submitted to CWC.
			<p>2.</p> <p>M/s Baddi Infrastructure (CETP) Baddi, Distt. Solan.</p>	<p>Improvement in functioning of existing CETP at Baddi w.r.t. connecting the near about areas with conveyance pipeline to treat the 1.10 MLD wastewater from Industries falling in River Sirsa Catchment.</p>	<ul style="list-style-type: none"> • The pipeline laying work of Phase –I (Baddi- Barotiwala Sia Road to SWCA Building) approx. 1.7 KM is completed and Hydro testing is done. • Phase –II:- Remaining work of 5000m has already been started.
			<p>3.</p> <p>Department of Industries.</p>	<p>Improvement in functioning of C.E.T.P Baddi.</p>	<ul style="list-style-type: none"> • The matter has been taken up with the Additional Chief Secretary (Inds) to the Govt. of HP for grant of in-principle approval for preparation of DPR by M/s Baddi Infrastructure, which is under process at Govt. level. • Industry Department submitted the proposal for upgradation of CETP Baddi for funding to Department of Pharmaceutical, GoI.

			4.	Department of Industries	Cleaning of sewage tanks for industrial areas of Baddi, Jharmajri, Lodhimajra, Davni, Thana	<ul style="list-style-type: none"> • All the Sewage tanks falling under the jurisdiction of SWCA, Baddi and MD have been cleaned. • Funds demanded from MD, HPSIDC for Cleaning of 3 nos HPSIDC Industrial Area septic tanks.
			5.	BBNDA	Setting up of Solid Waste Processing Plant at Baddi.	<ul style="list-style-type: none"> • Facility ready to be commissioned. • The plant has been started on trial basis
			6.	Forest Department	Plantation Proposal and Bio-diversity Proposal	<ul style="list-style-type: none"> • 18000 plants planted in FY2020-21 and additional 7 hectare plantation area achieved <p style="text-align: center;"><u>Setting up of Bio-Diversity Park:</u></p> <ul style="list-style-type: none"> • Lantana eradication, forestry & ornamental plantation carried out, renovation of ponds, • Construction of path, boundary walls, contingency and gate. • Amount of Rs 32 lakhs for FY 2020-21 has been allotted
			7.	IPH Department	Installation of Real-Time Water Quality Monitoring Station at river Sirsa.	<ul style="list-style-type: none"> • The Site is identified, tender has been awarded. • Civil structure is being erected for installation of equipment.

			<p>8. HPSPCB</p>	<p>Inventorization of Wastewater generating Industries and Legal Action against Non-complying Industrial Units</p>	<ul style="list-style-type: none"> • The inventorization is completed, 576 Nos of Water Polluting industries exists.
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4. ASHWANI Stretch (Priority V):-			
Sr. No.	Organization Responsible	Work proposed for Execution along with cost and final Timeline.	Incremental Progress
1.	Shimla Jal Prabandhan Nigam Limited (SJPNL) & MC Shimla	The up-gradation of existing 3 STPs by providing Sequencing Batch Reactor (SBR) technology.	<ul style="list-style-type: none"> • The work for upgradation of STP has been awarded. • The work of up-gradation of STP Malyana regarding installation of centrifuge (building work) has been started.
		Installation of a new STP of 2 MLD capacity for Panthagati area.	<ul style="list-style-type: none"> • Tender has been awarded. • Surveying work is in progress. • Preparation of design and drawings of STP is under process.
		Proposal for Septage Management under AMRUT-mission for the management of faecal sludge and septage management including drains contributing sewage into Ashwani Khad.	<ul style="list-style-type: none"> • Funds have been received. • Land is available at STP Lalpani. • Tender has been awarded.
		Proposal for improving the water quality of Ashwani Khad by	<ul style="list-style-type: none"> • There are three existing STPs (Dhalli, Malyana & Lalpani) in the catchment of Ashwani Khad and one new

				<p>installing various components, for the rejuvenation of water sources by improving the purity of water of Natural Nallahs by Phytoid Treatment at Ashwani Khad, Sanjuli-Malyana-Chamyana Khad, Shimla project.</p>	<p>STP is being installed for the area which don't have sewerage system (i.e. Panthaghati and Mehli area)</p> <ul style="list-style-type: none"> • This new STP has been designed to treat sewage to the effluent standards. • The existing 3 STPS are also being upgraded to treat sewage to effluent standard. • With completion of this work water quality of Ashwani Khad is expected to improve up to desired levels. So the proposal of installation of Phyto-remediation plant in Ashwani Khad may be kept on hold and will be executed if some requirement is felt after completion and up-gradation of the above 4 STPs. • Due to geographical conditions there is no viability of setting up the physical treatment.
			2.	Forest Department	<p>Plantation proposal and Construction of Check Dams.</p> <ul style="list-style-type: none"> • 11000 plants have been planted in FY 2020-21. • Construction of Check Dams on sub-catchment of Ashwani at Mansar ka Nallah, Jhokjri ka Nallah, Kurgal ka Nallah, Sewak Dhangil Nallah completed. • Construction of Check dams/water ponds of FY 2020-21 has been approved and work is being initiated.

5. BEAS Stretch (Priority V) :-

Sr. No.	Organization Responsible	Work proposed for Execution (In the Catchment Area)	Incremental Progress	
1.	Irrigation and Public Health Department & Urban Development	<p>I. Proposal for Sewerage Scheme in Rangri, Manali, District- Kullu.</p> <p>II. Proposal for Sewerage Scheme in Marhi, District- Kullu.</p> <p>III. Proposal for the expansion of existing STP in Manali, installation of New STPs in Manali.</p> <p>IV. Proposal for Sewerage Scheme in Kullu Town, District- Kullu (Zone-I).</p> <p>V. Proposal for Sewerage Scheme in Kullu Town, District- Kullu (Zone-II).</p> <p>VI. Proposal for Sewerage Scheme in Kullu Town, District- Kullu (Zone-III).</p>	<p>162.0 Crore</p> <p>1.14 Crore</p> <p>6.17 Crore</p> <p>1.88 Crore</p> <p>3.05 Crore</p>	<p>I. Tender has been floated and will be opened on 27th October, 2020.</p> <p>II. Work of laying network for Sewerage Scheme in Marhi is completed. 90% work of STP is completed.</p> <p>III. The work for the expansion of existing STP has been started. For the installation of new STP Funds have been received and Hydraulic Design submitted for approval.</p> <p style="text-align: center;"><u>IV&V.</u></p> <p>The work for up-gradation of STP (Zone-I & Zone-II), Kullu has been awarded under AMRUT. The design and drawing stand approved. The work is in progress.</p>

				<p>VII. Proposal for Sewerage Scheme in Bhunter Town, District- Kullu (Zone-III).</p>	<p>2.25 Crore</p> <p>3.35 Crore</p>	<p style="text-align: center;"><u>VI & VII.</u></p> <p>The work of STPs (Kullu Zone –III and Bhunter Zone-III) completed and are functioning as prescribed norms of CPCB.</p>
				<p>Proposal for the expansion of existing STPs and installation of New STPs (District- Mandi).</p>		<ul style="list-style-type: none"> • The Technical Sanction has been accorded to Rs. 61.14 Crores. • Tender has already been floated and was to be opened on 10th October, 2020.
			<p>Irrigation and Public Health Department (I&PH)</p>	<p>Proposal for sewer connection and sewer line up-gradation at Nadaun (District- Hamirpur).</p>		<ul style="list-style-type: none"> • STP commissioned, estimate for additional pipe network approved and work is in progress. • Out of total 1560 connections, 97 sanctioned and 97 have been released
				<p>Proposal for installation of STP (1.38 MLD) at Dehra, District- Kangra.</p>		<ul style="list-style-type: none"> • STP has been commissioned. • Out of 850, connections 360 sanctioned and 180 released.
				<p>Proposal for Channelization of River Beas from Palchan to Aut under HP Flood and River Management Project.</p>		<p>Snowfall data awaited from SASE.</p>
				<p>Proposal for channelization of Suketi Khad in a stretch.</p>		<p>DPR submitted to Secy (Jal Shakti) to the Govt. of HP by E-in-C (Project) Jal Shakti Vibhag Mandi.</p>

			2.	Urban Development Department Mandi.	Proposal for up-gradation of Solid Waste Management Facility for Mandi.	<ul style="list-style-type: none"> • The work stand completed. • Wet Composting is started. • Trommel, Shredder and De-watering machine have been installed for clearing legacy Waste. • Baling machine have been installed for packing drying waste for co-processing in cement plants. • Out of 1 lac ton legacy waste, 0.15lac ton has been cleared. • One additional trommel machine to be installed. • Consultants are required to engaged for its efficient operation of facility.
			3.	Department of Industries.	Proposal for installation of STP (60 KLD) at Industrial area, Kullu.	<ul style="list-style-type: none"> • The tender has been awarded.
					De-sludging of Septic Tanks for Industrial Area, Mandi (District- Mandi).	<ul style="list-style-type: none"> • The work has been completed.
			3.	Forest Department	<ul style="list-style-type: none"> • Proposal for Plantation (Kullu) by Forest Department • Proposal for Soil Conservation and Plantation (District- Mandi). 	<ul style="list-style-type: none"> • A total of 17,800 plants have been planted in Kullu, Mandi, Hamirpur, Kangra, the work stand completed. • Total 35,100 plants have been planted in FY2020-21 • Total 110 soil conservation work (Check Dams and Crate Walls work) completed for FY-2019-2020 • Construction of check dams of FY 2020-21 has been approved and work is being initiated.

				<ul style="list-style-type: none">• Proposal for Plantation (District- Hamirpur)• Proposal for Plantation (District- Kangra)	
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6. GIRI Stretch (Priority V):-

Sr. No.	Organization Responsible	Work proposed for Execution (In the Catchment Area)	Incremental Progress
1.	IPH Department	Installation of three STPs in these areas i.e. one at Theog and two at Kotkhai.	<ul style="list-style-type: none">• The work for STP at Theog, and 02 STPs at Kotkhai stand completed and commissioned.• Tendering for shifting of water source is in progress.• Total 313 connections identified in Kotkhai.• For STP Theog, connection work to be started in Oct, 2020.
2.	Forest Department	Plantation proposal.	<ul style="list-style-type: none">• Plantation of total 3300 plants is completed.• Total 4400 plants have been planted in FY 2020-21.

7. PABBAR Stretch (Priority V):-

Sr. No.	Organization Responsible	Work proposed for Execution (In the Catchment Area)	Incremental Progress
1.	Department of Urban Development.	Proposed facility for setting up of common SWM facility for areas Rohroo, Jubbal, Hatkoti and other areas.	<ul style="list-style-type: none">•The work for decentralized processing is completed.•Material Recovery Facility in Jubbal is under construction.•No legacy waste in Jubbal & Rohru.
2.	Forest Department	Plantation proposal.	<ul style="list-style-type: none">•Plantation of total 3300 plants planted in 3 hectare area for 2019-20.•Total 7700 plants have been planted in FY 2020-21.

4.1	Progress Report may be comprised of details along with completion timelines on:																										
(i)	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		The action plan of Priority – I to V are prepared based on following identified polluting sources : 1. Domestic Sewage generation and its treatment and proposed timeline to meet the gaps. 2. Industrial Wastewater generation and its treatment and proposed timeline to meet the gaps. 3. Existing solid wastes, bio-medical waste, hazardous waste, e-waste and other waste processing along the cat of River stretches, gaps and proposed timeline to meet the gap.																								
(ii)	<u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, proposed along with completion timeline		Detailed Gap analysis for the approved action plan for Priority – I and Priority – II is enclosed as under.																								
(iii)	<u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		<table border="1" data-bbox="751 667 1959 1437"> <thead> <tr> <th colspan="5" data-bbox="751 667 1959 808">Gap Analysis and the Proposed Action Points as per submitted Action Plans : (P-I & II stretches)</th> </tr> <tr> <th colspan="2" data-bbox="751 808 1066 878">Details</th> <th data-bbox="1066 808 1234 878">Generation</th> <th data-bbox="1234 808 1507 878">Existing Capacity</th> <th data-bbox="1507 808 1675 878">Gap</th> <th data-bbox="1675 808 1959 878">Proposed Treatment facilities</th> </tr> </thead> <tbody> <tr> <td data-bbox="751 878 926 1203" rowspan="2">Sewage Management</td> <td data-bbox="926 878 1066 1203">Sukhna Nallah</td> <td data-bbox="1066 878 1234 1203">(Residing & Floating) 1357.414 KLD (1.357 MLD)</td> <td data-bbox="1234 878 1507 1203"> <ul style="list-style-type: none"> • 29 Captive ETP cum STPs • 16 Common Septic tanks • 70 KLD STP Total capacity: 858.004 KLD (0.858 MLD) </td> <td data-bbox="1507 878 1675 1203">499.41 KLD (0.499 MLD)</td> <td data-bbox="1675 878 1959 1203"> ➤ 02 STPs proposed of 01 MLD each. Total Capacity: 2 MLD Timeline: 31/12/2020. </td> </tr> <tr> <td data-bbox="926 1203 1066 1437">River Markanda</td> <td data-bbox="1066 1203 1234 1437">(Residing & Floating) 1146.24 KLD (1.146 MLD)</td> <td data-bbox="1234 1203 1507 1437"> <ul style="list-style-type: none"> • 06 Captive STPs • Local Household inadequate Designed Septic Tanks. Total: 0.1 MLD </td> <td data-bbox="1507 1203 1675 1437">1046.24 KLD (1.046 MLD)</td> <td data-bbox="1675 1203 1959 1437"> ➤ 1 STP proposed for Trilokpur Area having capacity 1 MLD and Sewerage network and pre-treatment of sewage at Kala Amb (1.5 MLD) </td> </tr> </tbody> </table>			Gap Analysis and the Proposed Action Points as per submitted Action Plans : (P-I & II stretches)					Details		Generation	Existing Capacity	Gap	Proposed Treatment facilities	Sewage Management	Sukhna Nallah	(Residing & Floating) 1357.414 KLD (1.357 MLD)	<ul style="list-style-type: none"> • 29 Captive ETP cum STPs • 16 Common Septic tanks • 70 KLD STP Total capacity: 858.004 KLD (0.858 MLD)	499.41 KLD (0.499 MLD)	➤ 02 STPs proposed of 01 MLD each. Total Capacity: 2 MLD Timeline: 31/12/2020.	River Markanda	(Residing & Floating) 1146.24 KLD (1.146 MLD)	<ul style="list-style-type: none"> • 06 Captive STPs • Local Household inadequate Designed Septic Tanks. Total: 0.1 MLD	1046.24 KLD (1.046 MLD)	➤ 1 STP proposed for Trilokpur Area having capacity 1 MLD and Sewerage network and pre-treatment of sewage at Kala Amb (1.5 MLD)
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(iv)	<u>Status of Solid Waste Management & Details of Processing Facilities</u>																										

Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	31.12.2020	31.12.2020					Total capacity 2.5 MLD Timeline: 31/12/2020.
			River Sirsa	(Residing & Floating) 9.12 MLD	<ul style="list-style-type: none"> • 20 Captive ETP cum STPs (0.954 MLD) • 16 Common Septic tanks (01 MLD) • 5.5 MLD (Sewerage Network and Pre-treatment & To CETP, Baddi) • 3.62 MLD STP at Nalagarh. • Total Capacity – <u>11.074 MLD</u> 	No Gap	<ul style="list-style-type: none"> ➤ STP at Nalagarh commissioned in Feb 2020. ➤ Sewerage connections and pre-treatment at CETP Baddi completed.
			River Ashwani along Yashwant Nagar (Shimla & Solan)	20.51LD	<ul style="list-style-type: none"> • 03 nos of STPs with existing treatment: • Dhalli STP capacity 0.76 MLD • Malyana STP capacity 4.44 MLD • Lalpani STP capacity 10 MLD <p>Total Capacity – 15200 KLD (15.2 MLD).</p>	5.31 MLD	<ul style="list-style-type: none"> • Upgradation of 03 nos of STPs at Dhalli, Malyana and Lalpani and New STP at Panthghati of 02 MLD. <p>Total Up gradation Capacity – 13.35 MLD</p> <p>Timeline: 31/3/2021</p>
			River Beas at Kullu to Dehra Gopipur	23.71 MLD	<ul style="list-style-type: none"> • STPs (07 Nos) at Manali and Kullu. STP Dehra and STP Jawala Ji. <p><u>Total Capacity – 19300 KLD (19.3 MLD).</u></p>	4.41 MLD	<ul style="list-style-type: none"> • Up gradation of STPs at Kullu (06) and Manali (01), 02 New STPs at Manali, Marhi. • STP at Industrial area Kullu.

								<u>Proposal Capacity – 25.52 MLD</u>
			River Giri along Sainj	1.18 MLD	<ul style="list-style-type: none"> • Septic Tank and Soak Pits • 02 Nos of STPs at Kotkhai and 01 at Theog (0.305, 0.16 MLD at Kotkhai and 1.15 MLD at Theog). <p><u>Total Capacity - 1565 KLD (1.565MLD), Treated Sewage – 1.18 MLD).</u></p>	No Gap	No proposal.	
			River Pabbar along Rohru	2.24 MLD	<ul style="list-style-type: none"> • STPs at Rohru, Jubbal and Sarswati Nagar (1.754, 0.651 and 0.65 MLD) <p><u>Total 3055 KLD (3.055 MLD) Treated Sewage – 2.24 MLD).</u></p>	No Gap	No proposal.	
			Effluent Management					
			Sukhna Nallah	0.4798 MLD (48 industries)	(1.6383 MLD) 19 Captive ETPs 29 Captive ETP cum STPs	No Gap	➤ NO Proposal	
			River Markanda	5.5404 MLD (94 Industries)	7.196 MLD (78 ETPs 06 STPs)	No Gap	➤ 01 CETP of 2.5 MLD capacity at Kala Amb. Timeline: 31.12.2020	

				River Sirsa	20.779 MLD (576 industries)	CETP: 25 MLD, Captive STPs, ETPs <u>Total Capacity -27.88 MLD</u>	No Gap	Nil	
				River Ashwani along Yashwant Nagar	1.0165 MLD (197 industries)	Captive ETP/ STPs with Capacity 24905 KLD (24.905 MLD)	No Gap	-	-
				River Beas at Kullu to Dehra Gopipur	1.0112 MLD (110 industries)	ETP/ STPs with Capacity 1493.9 KLD (1.493 MLD)	No Gap	-	-
				River Giri along Sainj	0.07099 MLD (17 industries)	ETP/ STPs: 92 KLD	No Gap	-	
				River Pabbar (Priority – V)	0.0475 MLD (18 Industries)	63 KLD	No Gap	-	

			Solid Waste Management	Sukhna Nallah	07-08 MTD	1 MTD	6-7 MTD	➤ Common Facility at Baddi (40 MTD).
				River Markanda	1.5 MTD	1 MTD Composting	0.5 MTD	➤ Proposal for RDF manufacturing (4-6 MT/ Month) at Kala Amb.
				River Sirsa	25-30	Nil	25-30 MTD	➤ Common Facility at Baddi (40 MTD).
				River Ashwani along Yashwant Nagar	50 MTD	100 MTD	Nil	NA
				River Beas at Kullu to Dehra-Gopipur	63.5 TPD	62.5 MTD Waste to Energy Plant at Manali Waste processing site at Mandi (24 MTD), Hamirpur (10 MTD) and Dehra (2.5 MTD)	1 MTD	NA
				River Giri along Sainj	4.5 MTD	6.5 MTD	No Gap	NA
				River Pabbar at Rohru	6-7 MTD	14 MTD	No Gap	NA

(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		<p>The water quality of polluted rivers for month of September, 2020:</p> <p>Entry point</p> <table border="1"> <thead> <tr> <th data-bbox="751 293 1115 418" rowspan="2">Polluted river Stretch</th> <th data-bbox="1115 293 1245 418" rowspan="2">Priority</th> <th data-bbox="1245 293 1346 418" rowspan="2">pH</th> <th data-bbox="1346 293 1434 418">D.O.</th> <th data-bbox="1434 293 1524 418">BOD</th> <th data-bbox="1524 293 1707 418">F.C.</th> <th data-bbox="1707 293 1885 418">T.C</th> <th data-bbox="1885 293 2066 418">Fecal Streptococci</th> </tr> <tr> <th data-bbox="1346 363 1434 418">mg/l</th> <th data-bbox="1434 363 1524 418">mg/l</th> <th data-bbox="1524 363 1707 418">MPN/100ml</th> <th data-bbox="1707 363 1885 418">MPN/100ml</th> <th data-bbox="1885 363 2066 418">MPN/100ml</th> </tr> </thead> <tbody> <tr> <td data-bbox="751 418 1115 521">Sukhna Nallah upstream of Parwanoo Town at Shivloti Temple, Village – Ambota</td> <td data-bbox="1115 418 1245 521">I</td> <td data-bbox="1245 418 1346 521">8.34</td> <td data-bbox="1346 418 1434 521">7</td> <td data-bbox="1434 418 1524 521">0.1</td> <td data-bbox="1524 418 1707 521"><1.8</td> <td data-bbox="1707 418 1885 521">5.5</td> <td data-bbox="1885 418 2066 521"><1.8</td> </tr> <tr> <td data-bbox="751 521 1115 589">River Markanda Upstream Kala Amb</td> <td data-bbox="1115 521 1245 589">II</td> <td data-bbox="1245 521 1346 589">7.75</td> <td data-bbox="1346 521 1434 589">7.6</td> <td data-bbox="1434 521 1524 589">1.6</td> <td data-bbox="1524 521 1707 589">32</td> <td data-bbox="1707 521 1885 589">140</td> <td data-bbox="1885 521 2066 589"><1.8</td> </tr> <tr> <td data-bbox="751 589 1115 657">River Sirsa U/s Sitomajri Nallah</td> <td data-bbox="1115 589 1245 657">III</td> <td data-bbox="1245 589 1346 657">7.99</td> <td data-bbox="1346 589 1434 657">6.8</td> <td data-bbox="1434 589 1524 657">2</td> <td data-bbox="1524 589 1707 657">9.4</td> <td data-bbox="1707 589 1885 657">33</td> <td data-bbox="1885 589 2066 657"><1.8</td> </tr> <tr> <td data-bbox="751 657 1115 716">River Beas, U/s Manali</td> <td data-bbox="1115 657 1245 716">V</td> <td data-bbox="1245 657 1346 716">7.82</td> <td data-bbox="1346 657 1434 716">8.9</td> <td data-bbox="1434 657 1524 716">0.3</td> <td data-bbox="1524 657 1707 716">2</td> <td data-bbox="1707 657 1885 716">27</td> <td data-bbox="1885 657 2066 716"><1.8</td> </tr> <tr> <td data-bbox="751 716 1115 818">Ashwani Khad w.r.t U/s of weir site of WTP near Ashwani Bridge</td> <td data-bbox="1115 716 1245 818">V</td> <td data-bbox="1245 716 1346 818">8.15</td> <td data-bbox="1346 716 1434 818">7.9</td> <td data-bbox="1434 716 1524 818">1.7</td> <td data-bbox="1524 716 1707 818">13</td> <td data-bbox="1707 716 1885 818">110</td> <td data-bbox="1885 716 2066 818"><1.8</td> </tr> <tr> <td data-bbox="751 818 1115 886">Water Quality of River Giri at U/s Chailla</td> <td data-bbox="1115 818 1245 886">V</td> <td data-bbox="1245 818 1346 886">8.22</td> <td data-bbox="1346 818 1434 886">7.7</td> <td data-bbox="1434 818 1524 886">0.4</td> <td data-bbox="1524 818 1707 886">33</td> <td data-bbox="1707 818 1885 886">220</td> <td data-bbox="1885 818 2066 886"><1.8</td> </tr> <tr> <td data-bbox="751 886 1115 945">River Pabbar U/s Dhambari</td> <td data-bbox="1115 886 1245 945">V</td> <td data-bbox="1245 886 1346 945">8.15</td> <td data-bbox="1346 886 1434 945">8.8</td> <td data-bbox="1434 886 1524 945">0.3</td> <td data-bbox="1524 886 1707 945">27</td> <td data-bbox="1707 886 1885 945">130</td> <td data-bbox="1885 886 2066 945"><1.8</td> </tr> </tbody> </table>	Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C	Fecal Streptococci	mg/l	mg/l	MPN/100ml	MPN/100ml	MPN/100ml	Sukhna Nallah upstream of Parwanoo Town at Shivloti Temple, Village – Ambota	I	8.34	7	0.1	<1.8	5.5	<1.8	River Markanda Upstream Kala Amb	II	7.75	7.6	1.6	32	140	<1.8	River Sirsa U/s Sitomajri Nallah	III	7.99	6.8	2	9.4	33	<1.8	River Beas, U/s Manali	V	7.82	8.9	0.3	2	27	<1.8	Ashwani Khad w.r.t U/s of weir site of WTP near Ashwani Bridge	V	8.15	7.9	1.7	13	110	<1.8	Water Quality of River Giri at U/s Chailla	V	8.22	7.7	0.4	33	220	<1.8	River Pabbar U/s Dhambari	V	8.15	8.8	0.3	27	130	<1.8
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Exit Point

Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C	Fecal Streptococci
			mg/l	mg/l	MPN/100ml	MPN/100ml	MPN/100ml
Sukhna Nallah D/s Water Quality at Kalka Barrier.	I	8.14	7	0.8	14	32	<1.8
River Markanda D/s Jattan Wala Nallah at Sadhora	II	7.44	3.8	28	17000	54000	7.8
River Sirsa D/s Nalagarh Town	III	8.22	7.2	0.6	14	40	1.8
Ashwani Khad U/s Yashwant Nagar	V	8.61	7.5	1	13	34	<1.8
River Beas (Right Bank) D/s Dehra Town)	V	7.82	8.9	0.3	2	27	<1.8
River Giri D/s of Lift Water Supply Scheme at Sainj (at boundary District Shimla)	V	8.18	7.4	0.2	23	170	<1.8
River Pabbar D/s of TRT of Sawara Kuddu	V	8.23	7.6	0.5	27	240	<1.8

<p>(vi)</p>	<p>Preventing dumping of waste and scientific management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams etc.</p>	<p><u>Solid Waste Management</u> <u>Priority – I (Sukhna Nallah at Parwanoo)</u></p> <ul style="list-style-type: none"> • At Priority – I, (Sukhna at Parwanoo), total solid waste generation is 7-8 MT/Day. • The legacy waste has been recovered, and dumping site has been cleared. Domestic Hazardous waste Kiosk has been installed at Parwanoo. • The dry waste generated along the stretch of River Sukhna at Prawnoo has been regularly collected and further transported to the Waste processing site at Baddi • The wet waste is processed into Composting Pits constructed. <p><u>Priority – II (River Markanda at Kala Amb)</u></p> <ul style="list-style-type: none"> • Total solid waste generation is 3-4 MT/Day • The waste generated along the stretch of River Markanda at Kala Amb is disposed in the waste processing site at Nahan. • The Solid waste processing facility is proposed for Kala Amb which is to be completed by 31.12.2020. <p><u>Priority – III (River Sirsa at Baddi, Nalagarh in District Solan)</u></p> <ul style="list-style-type: none"> • Total solid waste generation is 25-30 MT/Day. • The dry waste generated along the stretch of River Sirsa has been regularly collected and further transported to the Waste processing site at Baddi. • The facility is under construction and likely to be completed soon. <p><u>Priority – V (River Ashwani, District- Shimla HP)</u></p> <ul style="list-style-type: none"> • Total solid waste generation is 50MT/Day. • The dry waste generated along the stretch of River Ashwani has been regularly collected and further transported to the Waste to RDF plant at Shimla. <p><u>Priority – V (River Beas from Kullu to Dehra-Gopipur at District- Kullu, Mandi, Hamirpur and Kangra of Himachal Pradesh)</u></p> <ul style="list-style-type: none"> • Total solid waste generation is 63.5 MT/Day. • The dry waste generated along the stretch of River Beas has been regularly collected and further transported to Waste to RDF Plant at Manali (100 MTD), Waste processing site at Mandi (24 MTD) and Hamirpur (10 MTD) and Dehra (2.5 MTD)
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			<p><u>Priority – V (River Giri at Sainj, District- Shimla HP)</u></p> <ul style="list-style-type: none"> • Total solid waste generation is 4.5 MT/Day. <p><u>Priority – V (River Pabbar along Rohru, District- Shimla HP)</u></p> <ul style="list-style-type: none"> • Total solid waste generation is 6-7 MT/Day. • The dry waste generated along the stretch of River Pabbar has been regularly collected and further transported to the Waste processing site at Rohru and Jubbal. <p><u>Hazardous Waste Management :</u></p> <p><u>Priority – I (Sukhna Nallah at Parwanoo)</u></p> <ul style="list-style-type: none"> • There are 48 industrial units falling in the stretch of Sukhna Nallah out of which 06 units are closed. • Total Hazardous waste generation inform ETP Sludge is 504 MT per year. • There is no common TSDF site in Parwanoo area. • All hazardous waste is being collected by M/s Shivalik Solid Waste Management Ltd (TSDF), Village Dabhota, Tehsil: Nalagarh, District Solan by the TSDF GPS enabled vehicle and same is further treated and landfilled. • The industries have provided separate storage facilities under covered shed within their premises. • No incident/accident regarding illegally dumping of hazardous waste has ever been reported • The capacity of landfill site at Dhabota is 10 Lac MT, hence there is no Gaps in treatment of Industrial Hazardous Waste Treatment. <p><u>Priority – II (River Markanda at Kala Amb)</u></p> <ul style="list-style-type: none"> • There are 94 industrial units falling in the stretch of River Markanda. • Total Hazardous waste generation inform of ETP Sludge is 987 MT per year. • There is no common TSDF site in Kala Amb area. • All hazardous waste is being collected by M/s Shivalik Solid Waste Management Ltd (TSDF), Village Dabhota, Tehsil: Nalagarh, District Solan by the TSDF GPS enabled vehicle and same is further treated and landfilled. • The industries have provided separate storage facilities under covered shed within their premises. • No incident/accident regarding illegally dumping of hazardous waste has been reported yet. • The capacity of landfill capacity of Landfill site at Dhabota is 10 lacs MT, hence there is no Gaps in treatment of Industrial Hazardous Waste Generated by industrial units along River Markanda Stretch.
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			<p><u>Priority – III (River Sirsa at Baddi, Nalagarh in District Solan)</u></p> <ul style="list-style-type: none"> • There are 576 industrial units falling in the stretch of River Sirsa. • Total Hazardous waste generation inform of ETP Sludge is 6048 MT per year. • All hazardous waste is being collected by M/s Shivalik Solid Waste Management Ltd (TSDF), Village Dabhota, Tehsil: Nalagarh, District Solan by the TSDF GPS enabled vehicle and same is further treated and landfilled. • The capacity of landfill site at Dhabota is 10 Lac MT, hence there is no Gaps in treatment of Industrial Hazardous Waste Treatment. <p><u>Priority – V (River Ashwani, District- Shimla HP)</u></p> <ul style="list-style-type: none"> • There are 140 industrial units falling in the stretch of River Ashwani which generates Hazardous Waste. • Total Hazardous waste generation inform of used oil is 40-50 LPD. • All hazardous waste is being collected and stored at Common facility for collection and Storage at Nalagarh/ Authorized recycler <p><u>Priority – V (River Beas from Kullu to Dehra-Gopipur at District- Kullu, Mandi, Hamirpur and Kangra of Himachal Pradesh)</u></p> <ul style="list-style-type: none"> • There are 110 industrial units falling in the stretch of River Beas which generates Hazardous Waste. • Total Hazardous waste generation inform of used oil is 54 LPD. • All hazardous waste is being collected and stored at Common facility for collection and Storage at Nalagarh/ Authorized recycler <p><u>Priority – V (River Giri at Sainj, District- Shimla HP)</u></p> <ul style="list-style-type: none"> • There are 5 industrial units falling in the stretch of River giri which generates Hazardous Waste. • Total Hazardous waste generation inform of used oil is 0.76 LPD. • All hazardous waste is being collected and stored at Common facility for collection and Storage at Nalagarh/ Authorized recycler <p><u>Priority – V (River Pabbar along Rohru, District- Shimla HP)</u></p> <ul style="list-style-type: none"> • There are 3 industrial units falling in the stretch of River Pabbar which generates Hazardous Waste. • Total Hazardous waste generation inform of used oil is 0.43 LPD. • All hazardous waste is being collected and stored at Common facility for collection and Storage at Nalagarh/ Authorized recycler
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(vii)	Ground water regulation		Presently Jal Shakti Department has stopped drilling of new bore wells for extraction of ground water in Himachal Pradesh as per order of the Hon'ble High Court of Himachal Pradesh. The Himachal Pradesh Ground Water Regulation & Control of Development & Management Act is under formulation will be notified after approval from the Government.
(viii)	Adopting good irrigation practices,		The Jal Shakti Department now totally discourages Flood irrigation and convergence of water through open channels. The use of irrigation water in the fields is optimized by extension services offered by Horticulture and Agriculture Department by micro irrigation methods.
(ix)	Protection and management of Flood Plain Zones (FPZ)		No flood plain zone have been identified in Himachal Pradesh till date.
(x)	Rain Water Harvesting,		As per Town & Country Planning Act, 1977 (Act No. 12 of 1977), it is mandatory for all the commercial buildings roof top rain water harvesting system and recharging pit. The guidelines for capturing, storage, integration and distribution of rain water harvesting is as under as per the aforementioned Act :-

			<ol style="list-style-type: none"> 1. The Rain Water Harvesting Structures are allowed to be constructed in setbacks below ground level. If the storage is desired at any level above ground level, it has to be away from setbacks within the permitted covered area. 2. The community Rain Water Harvesting Structure shall also be permissible. 3. Proper system for rain water capturing, storage as well as integration and distribution shall be ensured. 4. The stored rain water shall be utilized regularly for non-drinking usages including firefighting, landscaping, gardening apart from domestic usages. 5. No water supply connection shall be given to any building till Rain Water Harvesting System is put in place and subsequently operationalized. 6. The minimum capacity of Rain Water Harvesting Structure shall be worked out @ 20 Liters per square Metre of the roof top area. 7. Violator shall be liable for disconnection of Public Water Supply connection. 8. The owners of existing buildings without Rain Water Harvesting System shall have to install Rain Water Harvesting System within eighteen months after coming into the operation of these Regulations.
(xi)	Maintaining minimum environmental flow of river		<p>The <u>following steps have</u> been taken to maintain environmental flow in the river/ Nallah</p> <ul style="list-style-type: none"> • The RTWQMS along with Radar system for water quality monitoring and flow measurement, respectively, have been installed in river Markanda near Viii Ogli, Kala Amb town and in river Kaushalya near village Kamli. • Installation of RTWQMS at river Sirsa, the Site is identified, tendering work is in progress. • Total 27 nos of Check Dams constructed in Sukhna (Priority-I) at Parwanoo. • Total 45 nos of Check Dams constructed in Ashwani (Priority-V) along Yashwant Nagar. • Total 110 nos of Check Dams constructed in Beas (Priority-V) at Mandi and Jogindarnagar. • 3 low height dams and 3 rain water harvesting structure will be constructed in Markanda (Priority-II) at Kala Amb during 2020-21.
(xii)	Plantation on both sides of the river	Completed	<p>As per the latest progress on Plantation carried out at Priority – I and Priority – II is as below :-</p> <p><u>Priority-I (Sukhna Nallah at Parwanoo)</u></p> <ul style="list-style-type: none"> • 2200 Plants have been planted in FY 2019-20. • 4400 Plants have been planted in FY 2020-21 <p><u>Priority-II (River Markanda at Kala Amb)</u></p> <ul style="list-style-type: none"> • 1600 plants have been planted in Trilokpur Devini Area in FY 2019-20 • 9600 plants planted during FY-2020-21.

		<p><u>Priority – III (River Sirsa at Baddi, Nalagarh in District Solan</u></p> <ul style="list-style-type: none"> • 8800 plants has been planted in FY 2019-20. • 18000 plants planted in FY2020-21. <p><u>Priority – V (River Ashwani, District- Shimla HP)</u></p> <ul style="list-style-type: none"> • 28600 Plants have been planted in 2019-20. • 11000 plants have been planted in FY 2020-21. <p><u>Priority – V (River Beas from Kullu to Dehra-Gopipur at District- Kullu, Mandi, Hamirpur and Kangra of Himachal Pradesh</u></p> <ul style="list-style-type: none"> • 17,800 Plants are planted in FY 2019-20. • 35,100 plants have been planted in FY2020-21 <p><u>Priority – V (River Giri at Sainj, District- Shimla HP)</u></p> <ul style="list-style-type: none"> • 3300 Plants are planted in FY 2019-20. • 4400 plants have been planted in FY 2020-21. <p><u>Priority – V (River Pabbar along Rohru, District- Shimla HP)</u></p> <ul style="list-style-type: none"> • Total 3300 Plants are planted in FY 2019-20. • 7700 plants have been planted in FY 2020-21.
(xiii)	Setting up of biodiversity parks on flood plains by removing encroachment	<ul style="list-style-type: none"> • As per the Action Plan of Priority I & II, Bio-diversity Park is proposed. • No suitable land is available for the construction of Bio-Diversity Park in catchment of Priority-I. • Setting up of Bio-Diversity Park for Priority II, Rs. 55 lakhs allotted. Work of fencing is completed. Remaining work to be completed by Jan, 2021. • Setting up of Bio-diversity Park for Priority-III the total financial targets estimated by the Department of Forests for the years 2019-20 and 2020-21 are 25.0 Lakh and 32.0 Lakh respectively. For the financial year 2019-20, total budget amounting to Rs. 25 Lakh has been spent for Lantana eradication, forestry & ornamental plantation, renovation of ponds, Construction of path, boundary walls, contingency and gate etc. Amount of Rs 32 lakhs for FY 2020-21 has been allotted and Rs. 6 lakhs has been spent for filling, cleaning, dressing of boulders, plantations etc.