

National Mission for Clean Ganga

Format for Submission of Monthly Progress Report by State of HP for the month of June-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 site is identified for carrying out Phyto-remediation work for treatment of sewage at Samtel Nallah at Priority –I at Parwanoo along the catchment of Sukhna Nallah and Priority –II, Jatta Wala Nallah at Kala Amb on the Catchment of River Markanda. The work for Priority-I started.			
	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) 31.03.2021 (Priority-III)	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:			
			S.No.	Area & Priority	Proposal	Progress
			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. The proposal of 49.82 Crore prepared by IPH Department.	<ul style="list-style-type: none"> • In Priority – I (Sukhna Nallah at Parwanoo), financial approval amounting Rs. 47.60 Crore has been accorded for the proposal of 02 STPs (01 MLD each. Tender work has been awarded on 19.03.2020. The work will be completed before 31st, December 2020.
			2.	River MARKANDA Stretch (Priority II):	Kala Amb and Moginand Area: Laying of Sewerage Network and Pre-treatment of Sewage. The proposal is of Rs. 30.40 crore.	<ul style="list-style-type: none"> • At, Priority – II (River Markanda at Kala Amb), the contract for installation of pretreatment system for 1.5 MLD sewage treatment and laying of sewer network awarded on 7.03.2020. The pipe line for sewer lines purchased. The work will be

					completed before 31st December 2020.	
				Trilokpur Area: Laying of Sewerage Network & Setting up of Sewage Treatment Plant of 1 MLD capacity. The proposal is of Rs. 26.00 crores.	<ul style="list-style-type: none"> Tendering work completed. The contract awarded on 7/03/2020 pipes also procured for sewer line. The land handed over to contractor. The work will be completed before 31st December 2020. 	
			3.	River Sirsa Stretch (Priority III)	<p>Execution of project proposal for sewage management by laying of pipelines and installation and commissioning of STP at Nalagarh of capacity 3.62 MLD. The cost is Rs. 16.36 crores.</p> <p>Proper design, execution of Sewerage lines and Pretreatment of Sewage to be incorporated in CETP, Baddi. The capacity is 5.5 MLD. The cost is Rs. 33.34 crore.</p>	<ul style="list-style-type: none"> The work of Sewerage network w.r.t Trunk sewer line, its network and setting up of STP have been completed and commissioned. The Sewerage connections are being released. Laying of sewerage network and testing is completed. The Sewerage connections are released and sewage is also received CETP, Baddi.
			4.	Ashwani Khad (Priority V)	<p>The up-gradation of existing 3 STPs by providing Sequencing Batch Reactor (SBR) technology. The proposal is of Rs. 45.76 crores.</p> <p>Installation of a new STP of 2 MLD capacity for Panthagati area. The proposal is of Rs. 22 crore.</p>	<ul style="list-style-type: none"> Upgradation Work of STP Dhalli (1.75 MLD) awarded on 19.05.2020. Upgradation Work of STP Lalpani (9.35 MLD) awarded on 5.06.2020. Upgradation Work of STP Malyana (0.74 MLD) awarded on 19.03.2020. Tender has been opened and is under process for being awarded
			5.	River Beas (Priority V)	<p>Proposal for Sewerage Scheme in Rangri, Manali, District- Kullu.</p> <p>Proposal for Sewerage Scheme in</p>	<ul style="list-style-type: none"> Tender work in progress. Work of laying network is completed and work for setting up

				Marhi, District- Kullu.	of STP is awarded and work is in progress.
				Proposal for the expansion of existing STP in Manali.	<ul style="list-style-type: none"> • Tender called for expansion of existing STP for Manali for which funds received.
				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 work is in progress.
				Proposal for Sewerage Scheme in Kullu Town, District- Kullu (Zone-II).	<ul style="list-style-type: none"> • The work for up-gradation of STP (Zone-I & Zone-II), Kullu has been awarded under AMRUT. The work is in progress.
				Proposal for Sewerage Scheme in Kullu Town, District- Kullu (Zone-III)	<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.
				Proposal for Sewerage Scheme in Bhunter Town, District- Kullu (Zone-III).	<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.
				Proposal for the expansion of existing STPs and installation of New STPs (District- Mandi).	The Technical Sanction has been accorded to Rs. 61.14 Crores. Tendering work being finalized.
				Proposal for sewer connection and sewer line up-gradation at Nadaun (District- Hamirpur).	<ul style="list-style-type: none"> • Sewerage network has been completed and trial run in progress. • Connections being released.
				Proposal for installation of STP (1.38 MLD) at Dehra, District- Kangra.	<ul style="list-style-type: none"> • STP has been commissioned. • Connections being released.

					Proposal for installation of STP (60 KLD) at Industrial area, Kullu.	<ul style="list-style-type: none"> • HPSIDC has called e-Tender on 8.05.2020 and closing date was 29.05.2020. • Only 1 bid received. Retendering to be done.
			6.	Giri (Priority V)	Installation of three STPs in these areas i.e. one at Theog (1.15 MLD) and two at Kotkhai (0.305 MLD & 0.16).	<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 17.06.2020 w.r.t. reviewing the status.			

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 progress monitored by the Chief Secretary to the GoHP in last meeting held on 17.06.2020.The Latest Progress report is as under.</p> <p style="text-align: center;">1. <u>SUKHNA Nallah Stretch (Priority - I):- Parwanoo Town</u></p> <table border="1" data-bbox="604 414 2005 1422"> <thead> <tr> <th data-bbox="604 414 667 690">Sr. No.</th> <th data-bbox="667 414 856 690">Organization Responsible</th> <th data-bbox="856 414 1144 690">Work proposed for Execution along with cost and final Timeline.</th> <th data-bbox="1144 414 1333 690">Percentage (%) of Work to be completed as on date against timeline.</th> <th data-bbox="1333 414 2005 690">Latest Status</th> </tr> </thead> <tbody> <tr> <td data-bbox="604 690 667 1193">1.</td> <td data-bbox="667 690 856 1193">Irrigation and Public Health Department</td> <td data-bbox="856 690 1144 1193"> <u>Sewage Treatment Plant Proposal</u> (2 No of 1 MLD capacity each including laying of sewerage lines in Zone-I and Zone-II in Parwanoo Town. The proposal of 49.82 Crore prepared by IPH Department. </td> <td data-bbox="1144 690 1333 1193">33.33%</td> <td data-bbox="1333 690 2005 1193"> <ul style="list-style-type: none"> In Priority – I (Sukhna Nallah at Parwanoo), financial approval amounting Rs. 47.60 Crore has been accorded for the proposal of 02 STPs (01 MLD each). Tender work has been awarded on 19.03.2020. For construction of one STP, land is available near dumping site in sector 5 Parwanoo, whereas for the second STP, which is to be located on forest land in Village Tipra. </td> </tr> <tr> <td></td> <td></td> <td data-bbox="856 1193 1144 1422"> Installation of Continuous Water Quality Monitoring Station. The proposal of 0.3 crore. </td> <td data-bbox="1144 1193 1333 1422">100 %</td> <td data-bbox="1333 1193 2005 1422"> The Online Continuous Water Quality Monitoring Station (OCWQMS) has been installed and online data has been connected to HPSPCB server. </td> </tr> </tbody> </table>	Sr. No.	Organization Responsible	Work proposed for Execution along with cost and final Timeline.	Percentage (%) of Work to be completed as on date against timeline.	Latest Status	1.	Irrigation and Public Health Department	<u>Sewage Treatment Plant Proposal</u> (2 No of 1 MLD capacity each including laying of sewerage lines in Zone-I and Zone-II in Parwanoo Town. The proposal of 49.82 Crore prepared by IPH Department.	33.33%	<ul style="list-style-type: none"> In Priority – I (Sukhna Nallah at Parwanoo), financial approval amounting Rs. 47.60 Crore has been accorded for the proposal of 02 STPs (01 MLD each). Tender work has been awarded on 19.03.2020. For construction of one STP, land is available near dumping site in sector 5 Parwanoo, whereas for the second STP, which is to be located on forest land in Village Tipra. 			Installation of Continuous Water Quality Monitoring Station. The proposal of 0.3 crore.	100 %	The Online Continuous Water Quality Monitoring Station (OCWQMS) has been installed and online data has been connected to HPSPCB server.
Sr. No.	Organization Responsible	Work proposed for Execution along with cost and final Timeline.	Percentage (%) of Work to be completed as on date against timeline.	Latest Status														
1.	Irrigation and Public Health Department	<u>Sewage Treatment Plant Proposal</u> (2 No of 1 MLD capacity each including laying of sewerage lines in Zone-I and Zone-II in Parwanoo Town. The proposal of 49.82 Crore prepared by IPH Department.	33.33%	<ul style="list-style-type: none"> In Priority – I (Sukhna Nallah at Parwanoo), financial approval amounting Rs. 47.60 Crore has been accorded for the proposal of 02 STPs (01 MLD each). Tender work has been awarded on 19.03.2020. For construction of one STP, land is available near dumping site in sector 5 Parwanoo, whereas for the second STP, which is to be located on forest land in Village Tipra. 														
		Installation of Continuous Water Quality Monitoring Station. The proposal of 0.3 crore.	100 %	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.	100 %	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. Cleaning and Overhauling of Septic Tanks.	100 %	<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. Latest report of Cleaning and Overhauling of septic tanks not received from MC Parwanoo.
			3.	Department of Urban Development Waste Recovery and Reprocessing of Existing Dumped Waste at Dumping site Sector 5, Parwanoo. Installation of Kiosk for Domestic Hazardous Waste Management.	100%	<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	100 %	<ul style="list-style-type: none"> The work of Production Shed, Weighbridge, Boundary Wall, CCTV Cameras, ETP for Leachate treatment, Stand Completed. Plant and Machinery of RDF Section is installed.

				waste at Baddi Cluster.		<ul style="list-style-type: none"> • Other miscellaneous work electrification is also completed. • The Work of Dryer Installation is in progress. 	
			5.	Forest Department	Plantation Proposal	100%	<ul style="list-style-type: none"> • 2200 plants have been planted so far. • Bush Cutting, Fencing have been done.
			6.	MC Parwanoo	Phyto-remediation Proposal on Samtel Nallah		<ul style="list-style-type: none"> • The site for in-situ treatment by phyto-remediation in Samtel Nallah is identified. • Work has been awarded. • Foundation work and plantation of reeds started.
			7.	HPSPCB	Inventorization of Wastewater generating Industries and Legal Action against Non-complying Industrial Units	100 %	<ul style="list-style-type: none"> • The inventorization is completed, 48 Nos of Water Polluting industries exists. • Regular inspections and monitoring carried out, till date 06 nos of closure directions issued.
			8.	Health Department	Health Camps and Health Study on the catchment of River.	90%	<ul style="list-style-type: none"> • Total 11 Nos of Health Camps conducted and 1428 nos of patients were checked for Air and Water Air, Water and vector Borne diseases and Treatment Provided. • Health Study in progress.

2. River MARKANDA Stretch (Priority II):

Sr. No.	Organization Responsible	Work proposed for Execution along with cost and final Timeline.	Percentage (%) of Work to be completed as on date against timeline.	Existing Status
1.	Irrigation and Public Health Department & Industries Department	Kala Amb and Moginand Area: Laying of Sewerage Network and Pre-treatment of Sewage. The proposal is of Rs. 30.40 crore.	33.33 %	<ul style="list-style-type: none"> At, Priority – II (River Markanda at Kala Amb), the contract for installation of pre-treatment system for 1.5 MLD sewage treatment and laying of sewer network awarded on 7.03.2020. The pipe line for sewer lines purchased.

					Trilokpur Area: Laying of Sewerage Network & Setting up of Sewage Treatment Plants. The proposal is of Rs. 26.00 crores.	33.33%	<ul style="list-style-type: none"> • Tendering work completed. The contract has been awarded on 7.03.2020. • The pipes have also been procured for sewer line. • The land has been handed over to contractor. • The work is started and will be completed before 31st December 2020.
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			2.	Irrigation and Public Health Department	Installation of Continuous Water Quality Monitoring Station	100 %	The Online Continuous Water Quality Monitoring Station (OCWQMS) has been installed.
			3.	Department of Industries.	Kala Amb area : Proposal for setting up of CETP.	33.33%	<ul style="list-style-type: none"> • M/S Kala Amb Infrastructure Development Company (KIDC) had floated tender for proposed CETP on 15th March, 2020. • But no bids were received due to imposition of lockdown. • Tender Invited on 5.06.2020 and closing date was 29.06.2020.
			4.	Special Area Development Authority, Kala Amb, District Administration, Rural Development Department.	Proposal for setting up of Solid Waste Management Facility. The cost of the project is Rs. 3.5 crores.	33.33%	<ul style="list-style-type: none"> • The land measuring 05-04-00 bighas situated at Mohal, Ogli is identified for setting up a Solid Waste Management Plant. • Demarcation and Leveling of the plot is completed. • The A/A and E/S for the work of Shed construction along with Machine Room has been accorded by Chairman SADA, the work has been awarded but work could not be started because of imposition of lockdown. • NIA for complete work is issued on 13.03.2020. • Supply order for procurement of Bailing machine issued to Scientific & Technologies Equipment's Corporation on 07.03.2020.

5.	Forest Department	Plantation Proposal Biodiversity park	90 %	<ul style="list-style-type: none"> • 800 plants have been planted in Trilokpur Devini Area. • A Vertical Garden with 2000 plantation done.
6	IPH Department	Phyto-remediation Proposal on Jattan Wala Nallah	0 %	<ul style="list-style-type: none"> • Preliminary Project Report prepared and two sites identified.
7	HPSPCB	Inventorization of Wastewater generating Industries and Legal Action against Non-complying Industrial Units	100 %	<ul style="list-style-type: none"> • The inventorization is completed, 94 Nos of Water Polluting industries exists. • Regular inspections and monitoring carried out, till date 9 nos of closure directions issued.
8	Health Department	Health Camps and Health Study on the catchment of River.	90%	<ul style="list-style-type: none"> • Total 11 Nos of Health Camps conducted an 1816 nos of patients were checked for Air and Water Air, Water and vector Borne diseases and Treatment Provided.

3. River SIRSA Stretch (Priority III):-

Sr. No.	Organization Responsible	Work proposed for Execution along with cost and final Timeline.	Percentage of Work to be completed as on date against timeline. (%)	Existing Status
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. The cost is Rs. 16.36 crores.	100%	<ul style="list-style-type: none"> •The work of Sewerage network w.r.t Trunk sewer line, its network and setting up of STP have been completed as and commissioned. •The Sewerage connections are being released.
		Proper design, execution of Sewerage lines to be incorporated in CETP, Baddi. The cost is Rs. 33.34 crore.	100%	<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.

				Irrigation and Public Health Department	To undertake channelization of River Sirsa from Sitomajri to Sainimajra (Nalagarh) including main drains contributing to River Sirsa.	33.33%	<ul style="list-style-type: none"> The proposal was submitted to CWC through ePAMs on 26.01.2020 after examining CWC, Shimla raised observation on 13.05.2020 which are being dealt.
			2.	M/s Baddi Infrastructure (CETP) Baddi, Distt. Solan.	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. The cost is 2.70 crore.	66%	<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) Bank Guarantee to NHAI has been submitted for obtaining permission of digging work of road side berms for laying pipelines.
			3.	Department of Industries.	Improvement in functioning of C.E.T.P Baddi.	100%	<ul style="list-style-type: none"> M/s Baddi Infrastructure (Operators of CETP, Baddi) after consultation with stakeholders submitted the Action Plan for improvement in the functioning of CETP, Baddi which contains advanced treatment technologies (Filtration and Reverse Osmosis along with evaporation) for control of high TDS form industrial units.

						<ul style="list-style-type: none"> • Category IV (dying effluent generating units) M/s Winsome Textile Industries Limited, Baddi and M/s Vardhman Textiles Limited, Baddi submitted Action Plans for treating the category –IV effluent containing high Total Dissolved Solids (TDS). 	
			4.	Department of Industries	Cleaning of sewage tanks for industrial areas of Baddi, Jharmajri, Lodhimajra, Davni, Thana	100 %	<ul style="list-style-type: none"> • Out of total 15 Sewerage tanks in Industrial Areas Baddi, Jharmajri, Lodhimajra, Davni, Thana, 12 nos. cleaned and waste transported to CETP Baddi. • 3 Septic Tanks were not found cleaned as inspected by HPSPCB.

				5.	BBNDA	Setting up of Solid Waste Processing Plant at Baddi.	100%	<ul style="list-style-type: none"> • The work of Production Shed, Weighbridge, Boundary Wall, CCTV Cameras, ETP for Leachate treatment, Stand Completed. • Plant and Machinery of RDF Section is installed. • Other miscellaneous work electrification is also completed. • The Work of Dryer Installation is in progress.
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5.	Forest Department	Plantation Proposal and Bio-diversity Proposal	66.66%	<ul style="list-style-type: none"> • Total number of 8800 plants has been planted so far. • The work for Bio-diversity Park at Nalagarh is in progress.
6.	IPH Department	Installation of Real-Time Water Quality Monitoring Station at river Sirsa.		<ul style="list-style-type: none"> • The Site is identified, tendering work is in progress
7.	HPSPCB	Inventorization of Wastewater generating Industries and Legal Action against Non-complying Industrial Units	100 %	<ul style="list-style-type: none"> • The inventorization is completed, 548 Nos of Water Polluting industries exists. • Regular inspections and monitoring carried out, till date 57 nos of closure directions issued.

4. ASHWANI Stretch (Priority V):-

Sr. No.	Organization Responsible	Work proposed for Execution along with cost and final Timeline.	Latest Status
1.	Shimla Jal Prabandhan Nigam Limited (SJPNL) & MC Shimla	The up-gradation of existing 3 STPs by providing Sequencing Batch Reactor (SBR) technology. The proposal is of Rs. 45.76 crores.	<ul style="list-style-type: none"> • Work of STP Dhalli awarded on 19.05.2020. • Work of STP Lalpani awarded on 5.06.2020. • Work of STP Malyana awarded on 19.03.2020.
		Installation of a new STP of 3.1 MLD capacity for Panthagati area. The proposal is of Rs. 22 crore.	<ul style="list-style-type: none"> • Tender has been recalled due to non participation of sufficient bidders.
		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"> • The tender work is process.

				<p>Proposal for improving the water quality of Ashwani Khad by 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>	<ul style="list-style-type: none"> • In Phase –I, up gradation in existing STPs will be completed and in the future after up-gradation of STPs the need of the project will be assessed. • The DPR of construction of Phyto-remediation is being prepared below the confluence of Lalpani Nallah and Ashwani Khad. 	
			2.	Forest Department	<p>Plantation proposal and Construction of Check Dams.</p>	<ul style="list-style-type: none"> • 13,200 Plants have been planted so far. • Construction of Check Dams on sub-catchment of Ashwani at Mansar ka Nallah, Jhokjri ka Nallah, Kurgal ka Nallah, Sewak Dhangil Nallah with amount of Rs. 4,55,000=00 stands completed.

5. BEAS Stretch (Priority V) :-

Sr. No.	Organization Responsible	Work proposed for Execution (In the Catchment Area)	Latest Status	Latest Status
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,</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>2.25</p>	<p>I. Tender work in process of being awarded.</p> <p>II. Work of laying network is completed and work for setting up of STP is awarded and work is in progress.</p> <p>III. Tender called for expansion of existing STP for Manali for which funds received.</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 work is in progress.</p> <p style="text-align: center;"><u>VI & VII.</u></p> <p>The work of STPs (Kullu Zone –III and Bhunter Zone-III)</p>

				District- Kullu (Zone-III). VII. Proposal for Sewerage Scheme in Bhunter Town, District- Kullu (Zone-III).	Crore 3.35 Crore	completed and are functioning as prescribed norms of CPCB.
				Proposal for the expansion of existing STPs and installation of New STPs (District- Mandi).		The Technical Sanction has been accorded to Rs. 61.14 Crores. Tendering work being finalized.
			Irrigation and Public Health Department (I&PH)	Proposal for sewer connection and sewer line up-gradation at Nadaun (District- Hamirpur).		<ul style="list-style-type: none"> • Sewerage network has been completed and trial run in progress.
				Proposal for installation of STP (1.38 MLD) at Dehra, District- Kangra.		<ul style="list-style-type: none"> • STP has been commissioned. • Total Connection 850, out of which 150 connections sanctioned and 44 released
				Proposal for Channelization of River Beas from Palchan to Aut under HP Flood and River Management Project.		The period for flood records of River Beas for designing Channelization works has been changed from 25 years to 50 years, hence to re-prepare the unit hydrograph, the CWPRS authorities want to re-visit the site.
				Proposal for channelization of Suketi Khad in a stretch.		The revised model study of Khad has been carried out by CWPRS, Pune and according to Revised Model Study the DPR is under process.
			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.
			3.	Department of Industries.	<p>Proposal for installation of STP (60 KLD) at Industrial area, Kullu.</p> <ul style="list-style-type: none"> • HPSIDC has called e-Tender on 8.05.2020 and closing date was 29.05.2020. • Only 1 bid received. Retendering to be done
					<p>De-sludging of Septic Tanks for Industrial Area, Mandi (District- Mandi).</p> <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). • Proposal for Plantation (District- Hamirpur) • Proposal for Plantation (District- Kangra) <ul style="list-style-type: none"> • A total of 19,300 plants have been planted in Kullu, Mandi, Hamirpur, Kangra, the work stand completed and survival of plants is 80-90%. • Soil conservation and Check Dam work is completed and 25 such structures are built and stand completed.

6. GIRI Stretch (Priority V):-

Sr. No.	Organization Responsible	Work proposed for Execution (In the Catchment Area)	Existing Status
1.	IPH Department	Installation of three STPs in these areas i.e. one at Theog and two at Kotkhai.	The work for STP at Theog, and 02 STPs Kotkhai stand completed and commissioned and trial run is in progress.
2.	Forest Department	Plantation proposal. The proposal is of 0.73 crore	Plantation of total 3300 plants is completed in Theog region.

7. PABBAR Stretch (Priority V):-

Sr. No.	Organization Responsible	Work proposed for Execution (In the Catchment Area)	Existing Status
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			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. •The composting Pits (Rohroo, Jubbal) is constructed for wet waste processing. •Wet waste is being processed in composting pits. •A baling machine has also been installed at Jubbal and Rohroo for packing of dry waste for its disposal to cement plant at Darlaghat.
			2.	Forest Department	Plantation proposal.	<ul style="list-style-type: none"> •Plantation of total 3300 plants planted for 2019-20.

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 : <ol style="list-style-type: none"> 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 catchment 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		Detailed Gap analysis for the approved action plan for Priority – I and Priority – II is enclosed as under.

	along with completion timeline		Gap Analysis and the Proposed Action Points as per submitted Action Plans : (P-I & II stretches)					
(iii)	Status of CETPs Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		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)	<ul style="list-style-type: none"> ➤ 02 STPs proposed of 01 MLD each. Total Capacity: 2 MLD Timeline: 31/12/2020.
(iv)	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline			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)	<ul style="list-style-type: none"> ➤ 1 STP proposed for Trilokpur Area having capacity 1 MLD and Sewerage network and pre-treatment of sewage at Kala Amb (1.5 MLD) 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. • <u>Total Capacity – 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.
		31.12.2020						

		31.12.2020		River Ashwani along Yashwant Nagar (Shimla & Solan)	20.51 MLD	<ul style="list-style-type: none"> 03 nos of STPs with existing treatment capacity 15.2 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>
		31.12.2020		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>Total Capacity – 19300 KLD (19.3 MLD).</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. <p>Proposal Capacity – 25.52 MLD</p>
				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>Total Capacity - 1565 KLD (1.565MLD), Treated Sewage –</p>	No Gap	No proposal.

					1.18 MLD).			
				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>Total 3055 KLD (3.055 MLD) Treated Sewage – 2.24 MLD).</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
				River Sirsa	20.779 MLD	CETP: 25 MLD, Captive STPs, ETPs <u>Total Capacity -27.88 MLD</u>	No Gap	Nil
				River Ashwani along Yashwant Nagar	1016.5 KLD (1.0165 MLD)	Captive ETP/ STPs with Capacity 24905 KLD (24.905 MLD)	No Gap	-

				River Beas at Kullu to Dehra Gopipur	1011.2 KLD (1.0112 MLD)	ETP/ STPs with Capacity 1493.9 KLD (1.493 MLD)	No Gap	-	-
				River Giri along Sainj	70.99 KLD (0.07099 MLD)	ETP/ STPs: 92 KLD	No Gap	-	
				River Pabbar (Priority – V)	47.5 KLD (0.0475 MLD)	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;

The latest water quality of polluted rivers are enclosed as under:

Polluted River Stretch Priority-I
(Sukhna at Parwanoo Town, District –Solan, H.P)
Sukhna Nallah D/s Water Quality at Kalka Barrier (Exit Point)

Month/Year	pH	D.O. mg/l	BOD mg/l	FC MPN/100ml	TC MPN/100ml
Jan., 2019	8.16	4.0	52.0	350	1600
Feb., 2019	7.74	6.3	12.0	26	140
March, 2019	7.69	5.0	72.0	920	>1600
April, 2019	7.55	5.2	16.0	17	47
May, 2019	7.92	4.2	25.0	220	920
June, 2019	7.93	2.5	32.0	240	540
July, 2019	7.60	6.1	2.8	33	70
August, 2019	7.78	6.2	2.8	170	920
Sept., 2019	7.51	5.9	2.2	94	170
Oct., 2019	7.91	5.2	1.6	22	70
Nov., 2019	7.15	4.9	1.8	26	94
Dec., 2019	7.25	5.8	2.8	27	170
Jan, 2020	7.48	5.6	2.8	22	170
Feb, 2020	6.29	5.4	2.8	17	47
March, 2020	7.02	5.3	3.8	7.8	33
April, 2020	Sample Not Received				
May, 2020	Source Dried				
June, 2020	Source Dried				

Polluted River Stretch Priority-II
(River Markanda at Kala Amb, District –Sirmour, H.P.)

Water Quality of River Markanda D/s Jattan Wala Nallah at Sadhora (Exit Point)					
Month/year	pH	DO (mg/L)	BOD (mg/ L)	FC (MPN/100ml)	TC (MPN/10 0 ml)
Jan, 2019	7.78	6.4	5	>1600	>1600
Feb, 2019	7.88	5.8	7.5	22,000	56,000
March, 2019	7.59	5.3	12	70,000	1,84,000
April, 2019	Source was found dry				
May, 2019					
June, 2019					
July, 2019					
Aug, 2019	7.65	6.7	1.2	58	280
Sep, 2019	7.46	5.5	1.8	58	350
Oct, 2019	7.4	7.5	2	79	350
Nov, 2019	6.8	2.8	6	11000	28000
Dec, 2019	6.8	4.5	2.5	2200	4900
Jan, 2020	7.32	6	12	27000	80000
Feb, 2020	7.08	5.1	6	920	3500
March, 2020	7.22	5.5	3.6	280	1600
April, 2020	Source Dried				
May, 2020	7.43	6	8	2800	9200
June,2020	7.18	5.7	6.5	560	3200

Polluted River Stretch Priority-III
(River Sirsa, Baddi, Nalagarh, District- Solan, H.P.)

River Sirsa D/s Nalagarh Town (Exit Point)					
Month/year	pH	D.O.	BOD	F.C.	T.C
		mg/l	mg/l	MPN/100ml	MPN/100ml
Jan-19	7.56	8.2	6.4	31	150
Feb-19	8.9	8.3	6.2	21	70
Mar-19	7.97	7.4	7.2	22	79
Apr-19	7.45	7.8	3.3	17	150
May-19	8.22	6.4	2.2	17	120
Jun-19	7.61	7.8	4	22	110
Jul-19	7.8	8.5	2.6	32	170
Aug-19	8.2	6.8	2.7	70	220
Sep-19	7.25	6.5	0.4	13	32
Oct-19	7.95	8	2	14	84
Nov-19	7.35	6.5	2.8	25	84
Dec-19	8.19	7	4.2	22	170
Jan-20	7.38	5.8	1.2	22	110
Feb-20	7.62	9.9	2.8	14	70
Mar-20	7.15	8.3	1.4	14	48
Apr-20	7.66	7	1.6	17	38
May-20	7.71	7.5	1.4	21	63
June-20	7.61	9.8	1.2	9.3	26

**Polluted River Stretch Priority-V
(River Ashwani, District- Shimla HP)**

Ashwani Khad U/s Yashwant Nagar (Exit Point)					
Month/year	pH	D.O.	BOD	F.C.	T.C
		mg/l	mg/l	MPN/100ml	MPN/100ml
Jan-19	8.97	7.5	0.4	4.5	14
Feb-19	8.11	9	0.8	13	32
Mar-19	8.37	8	0.8	17	33
Apr-19	7.94	7.8	0.6	17	32
May-19	7.03	7.8	1.6	6.8	46
Jun-19	8.67	7	1.8	6.1	40
Jul-19	8.9	6.6	0.6	13	31
Aug-19	7.73	5.5	2.4	23	170
Sep-19	8.14	5.9	0.2	3.6	14
Oct-19	8.15	6.1	0.1	3.6	11
Nov-19	7.84	6	0.2	3.6	12
Dec-19	8.19	6.2	0.8	12	38
Jan-20	7.71	6.1	0.4	9.1	21
Feb-20	7.28	6.0	0.1	1.8	14
Mar-20	6.40	6.0	0.4	2.0	21
Apr-20	6.6	8	0.2	9.2	21
May-20	7.59	8	1	11	34
Jun-20	7.4	8	1	4.5	21

**Polluted River Stretch Priority-V
(River Beas from Kullu to Dehra-gopipur at District- Kullu, Mandi, Hamirpur and Kangra
of Himachal Pradesh)**

River Beas (Right Bank) D/s Dehra Town) (Exit Point)					
Month/year	pH	D.O. mg/l	BOD mg/l	F.C. MPN/100ml	T.C MPN/100m l
Jan-19	7.58	9.5	0.2	2	70
Feb-19	7.38	7.9	0.5	2	70
Mar-19	7.25	9.5	0.2	6	170
Apr-19	7.49	9	0.5	4	110
May-19	7.32	9.1	0.4	2	70
Jun-19	7.29	9	0.4	2	79
Jul-19	8.08	9.1	0.3	2	79
Aug-19	7.94	8.7	0.4	4	120
Sep-19	8.01	8.7	0.1	2	58
Oct-19			-		
Nov-19	7.81	8.7	0.1	2	58
Dec-19	7.75	8.7	0.1	2	48
Jan-20	7.81	9	0.2	2	41
Feb-20	-	-	-	-	-
Mar-20	7.67	9	0.1	2	27
Apr-20	7.48	8.6	0.1	1.8	33
May-20	7.86	9.2	0.2	1.8	49
Jun-20	7.84	8.9	0.3	1.8	58

**Polluted River Stretch Priority-V
(River Giri at Sainj, District- Shimla HP)**

River Giri D/s of Lift Water Supply Scheme at Sainj (at boundary District Shimla) (Exit Point)					
Month/year	pH	D.O.	BOD	F.C.	T.C
		mg/l	mg/l	MPN/ 100ml	MPN/100ml
Jan-19	8.22	10.9	1	21	94
Feb-19	7.28	9.2	1.7	26	210
Mar-19	7.96	8.5	1.5	<1.8	350
Apr-19	8.11	8.6	0.5	<1.8	210
May-19	8.03	8.6	0.5	2	170
Jun-19	8.32	8.3	0.6	2	130
Jul-19	8.26	6.8	0.9	12	170
Aug-19	8.35	8.1	0.4	7	110
Sep-19	7.97	7	0.8	14	170
Oct-19	8.27	7.7	0.6	6	94
Nov-19	8.18	9	0.7	63	12
Dec-19	8.19	8.1	0.6	17	110
Jan-20	Sample not received				
Feb-20	8.04	9.4	0.5	12	84

Mar-20	7.28	8.8	1	14	180.00
Apr-20	7.95	9.5	0.8	20	94
May-20	8.22	9.6	1.2	11	170
Jun-20	7.67	8.2	0.8	33	240

**Polluted River Stretch Priority-V
(River Pabbar along Rohru, District- Shimla HP)**

River Pabbar D/s of TRT of Sawara Kuddu (Exit Point)					
Month/year	pH	D.O.	BOD	F.C.	T.C
		mg/l	mg/l	MPN/100ml	MPN/100ml
Jan-19	8.03	10.3	0.4	14	48
Feb-19	7.55	10.2	1.8	2	26
Mar-19	7.77	8.8	1.6	39	350
Apr-19	7.8	9.1	0.6	26	540
May-19	8.07	9.1	0.5	21	140
Jun-19	7.69	8.7	0.8	13	110
Jul-19	7.96	8.8	0.5	17	120
Aug-19	7.89	7.5	0.8	9.3	94
Sep-19	7.64	7.4	0.5	6.8	63
Oct-19	8.29	7.5	0.3	11	84
Nov-19	7.9	9.5	0.8	12	70
Dec-19	8.18	9.5	0.4	9.2	46

Jan-20	Sample not received				
Feb-20	7.78	11.5	0.3	4	31
Mar-20	7.91	7.9	0.6	31	280.00
Apr-20	7.8	9	0.8	26	170
May-20	7.36	9.1	1.2	23	110
Jun-20	7.74	7.9	0.6	32	220

<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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Priority – V (River Giri at Sainj, District- Shimla HP)

- Total solid waste generation is 4.5 MT/Day.

Priority – V (River Pabbar along Rohru, District- Shimla HP)

- 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.

Hazardous Waste Management :

Priority – I (Sukhna Nallah at Parwanoo)

- 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.

Priority – II (River Markanda at Kala Amb)

- 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.

Priority – III (River Sirsa at Baddi, Nalagarh in District Solan)

- 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.

Priority – V (River Ashwani, District- Shimla HP)

- 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

Priority – V (River Beas from Kullu to Dehra-Gopipur at District- Kullu, Mandi, Hamirpur and Kangra of Himachal Pradesh)

- 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

Priority – V (River Giri at Sainj, District- Shimla HP)

- 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

Priority – V (River Pabbar along Rohru, District- Shimla HP)

- 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

Bio-medical Waste Management:

Priority – I (Sukhna Nallah at Parwanoo)

- The bio medical waste generated is being disposed to M/s Enviro Engineers, a Common Bio Medical Waste Disposal Facility having capacity 100 Kg/hr, located at Shalaghat, District - Solan (H.P).
- One Hospital in the name and Style of ESIC Hospital, Parwanoo and 5 other HCF units generate 4.7 Kg/Day and disposes Bio-medical Waste at afore-mentioned site.

Priority – II (River Markanda at Kala Amb)

- The bio medical waste generated is being disposed to M/s Enviro Engineers, a Common Bio Medical Waste Disposal Facility having treatment capacity 100 Kg/hr, located at Shalaghat, District - Solan (H.P).
- One Hospital in the name and Style of ESIC Hospital, Kala Amb and 5 other HCF collectively generate 0.2 Kg/Day and disposes Bio-medical Waste at afore-mentioned site.

Priority – III (River Sirsa at Baddi, Nalagarh in District Solan)

- The bio medical waste generated is being disposed to M/s Enviro Engineers, a Common Bio

			<p>Medical Waste Disposal Facility having capacity 100 Kg/hr, located at Shalaghat, District - Solan (H.P).</p> <ul style="list-style-type: none"> • 75 Health Care Facilities and 117 Industries collectively produce 765 kg/day and disposes Bio-medical Waste at afore-mentioned site. <p><u>Priority – V (River Ashwani, District- Shimla HP)</u></p> <ul style="list-style-type: none"> • The bio medical waste generated is being disposed to M/s Enviro Engineers, a Common Bio Medical Waste Disposal Facility having capacity 100 Kg/hr, located at Shalaghat, District - Solan (H.P). • 25 Health Care Facilities produce 130 kg/day and disposes Bio-medical Waste at afore-mentioned site. <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"> • • The bio medical waste generated is being disposed to M/s Enviro Engineers, a Common Bio Medical Waste Disposal Facility having capacity 100 Kg/hr, located at Shalaghat, District - Solan (H.P). • 31 Health Care Facilities produce 203 kg/day and disposes Bio-medical Waste at afore-mentioned site. <p><u>Priority – V (River Giri at Sainj, District- Shimla HP)</u></p> <ul style="list-style-type: none"> • The bio medical waste generated is being disposed to M/s Enviro Engineers, a Common Bio Medical Waste Disposal Facility having capacity 100 Kg/hr, located at Shalaghat, District - Solan (H.P). • 2 Health Care Facilities produce 6 kg/day and disposes Bio-medical Waste at afore-mentioned site. <p><u>Priority – V (River Pabbar along Rohru, District- Shimla HP)</u></p>
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			<ul style="list-style-type: none"> The bio medical waste generated is being disposed to M/s Enviro Engineers, a Common Bio Medical Waste Disposal Facility having capacity 100 Kg/hr, located at Shalaghat, District - Solan (H.P). 10 Health Care Facilities produce 28 kg/day and disposes Bio-medical Waste at afore-mentioned site. <p><u>Plastic Waste Management:</u></p> <ul style="list-style-type: none"> Buy back Policy: The Government of Himachal Pradesh has notified a Policy regarding Buy-back of non-recyclable and Single Use Plastic Waste including plastic bags in the Himachal Pradesh from the Rag pickers and households, providing Minimum Support Price of Rs. 75/- (Rupees Seventy Five) only per kilogram. EPR Implementation: Directions are issued to plastic waste Producers and Brand owners to set up waste collection system along Priority- I, II, III V.
(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 have 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 following steps have 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. • 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"> • Total 2200 Plants are planted. <p><u>Priority-II (River Markanda at Kala Amb)</u></p> <ul style="list-style-type: none"> • Total 1600 Plants are planted. <p><u>Priority – III (River Sirsa at Baddi, Nalagarh in District Solan</u></p> <ul style="list-style-type: none"> • Total 8800 Plants are planted. <p><u>Priority – V (River Ashwani, District- Shimla HP)</u></p>

			<ul style="list-style-type: none"> Total 13,200 Plants are planted. <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 19,300 Plants are planted. <p><u>Priority – V (River Giri at Sainj, District- Shimla HP)</u></p> <ul style="list-style-type: none"> Total 3300 Plants are planted. <p><u>Priority – V (River Pabbar along Rohru, District- Shimla HP)</u></p> <ul style="list-style-type: none"> Total 3300 Plants are planted.
(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, at Kala Amb and the work is progress. However, for the 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 Setting up of Bio-diversity parks along all the polluted river stretches in HP.