



Minutes of the 6th Monitoring Committee Meeting held by Secretary(Environment Department) on 22/07/2023 in the matter of National Green Tribunal in OA No. 395/2013 Restoration of Periyar River

Meeting commenced at 4.30 PM with Secretary to Government, Environment Department presiding. The MD KWA, Director of Panchayat, Dy. Director LSGD, Commissioner, Land Revenue Commissionerate, District Collector Idukki, Ernakulam, Thrissur, Member Secretary, Kerala State Pollution Control Board, Chief Engineer Irrigation Department and officers of Environmental department, local bodies, KWA, Irrigation Department, Suchitwa Mission, Amruth, KSITM, Industries Dept., were also present in the meeting.

Member Secretary, KSPCB briefed the order of Hon'ble NGT in OA 395/2013 on 27.05.2022 and regarding 6th monitoring committee. Then presentation was made regarding the action points formulated as per OA 395/2013- Restoration of Periyar River and reviewed the progress of the projects. Copy of PPT attached as annexure. The progress of items reported and decisions are summarized below:

Sl no	Item	Agency/Action taken/	Status/ Decision
1	Identification of industries/establishments/commercial complexes/ flats/hotels etc. discharging sewage /wastewater to the public drain/stream/river/encroachments.	LSGI, Board	Completed
2	Periodical inspections in industries/ Establishments/ Commercial complexes/Flats/Hotels etc Monitoring of STP/ETP etc, notices.	LSGI, Board Periodical monitoring is being done. The details of periodical inspections by the Board and local bodies were reported.	Regular Activity. Progress noted.
2a	CSTP/FSTP		

	Kochi corporation	<p>LSGI:Bye law approved by Counsel and sent to Govt. for approval. Registration of 85 pvt. Service operators completed.</p> <p>KWA:Regarding Elamkulam STP, KWA informed that trial run for co treatment facility has started.</p>	Progress on the collection and treatment of waste water from apartments/establishments is to be reported.
	Thrissur Corporation	<p>10 KLD FSTP at Madakkathara in Thrissur Corporation is under trial run.</p> <p>FSTP is situated in Madakkathara Gramapanchayat and panchayath is not ready for treating wastewater from Corporation. Collector level meeting conducted and trial run resumed. Report and application to be submitted to Board after completing trial run.</p>	Progress is to be reported.
	Munnar FSTP	<p>Civil work started for Munnar FSTP but a case is filed in High court and hearing is on 24.07.2023.</p> <p>Secretary (Envt.Dept) enquired about the present mode of treatment and disposal and instructed to submit report.</p>	Report is to be reported.
2k	Number of inspections carried out /	Details of inspections	Secretary (Envt. Dept)

20	<p>Number of inspections carried out / fine collected in the events of illegal outlets/ illegal dumping and single use plastic ban</p>	<p>Details of inspections carried out and fine collected are reported by each local body in detail. It is noted that no fine is imposed by 12 local bodies including 11 from Ernakulam (namely North Paravoor, Malayattoor, Kalady, Chennamangalam, Kuttampuzha, Kanjur, Sreemoolanagaram, Kunnukara, Vengoor, Okkal, Pindimana,)1 from Idukki (Mariyapuram).</p>	<p>Secretary (Envl. Dept.) asked whether the inspections and imposing of fine will stop the the pollution. Then Member Secretary informed that regular monitoring is being done and actions are taken to close illegal outlets, which will reduce the pollution load. JD & DD SWAG informed that regular review meeting are being conducted and number of inspections done, fine collected for illegal dumping, single use plastic ban, illegal outlets are being reviewed on monthly basis.</p> <p>Notice are issued in case of observance of violations followed by hearing and if no rectification is done fine will collected and then prosecution procedure will be initiated. Now 6 prosecutions are there in this regard and details will be reported in next meeting.</p> <p>District enforcement team formed in all Districts for ensuring the same.</p> <p>Progress of action is to be reported.</p>
3	<p>Aluva Municipality-</p> <p>a)Adwaitha Ashramam- Augmentation and Revamping of existing STP and to increase the capacity of STP so as to treat more sewage generated in the municipality.</p>	<p>Civil Part-agreement signed;</p> <p>Mechanical part: Execution of work by Irrigation Dredger Section and awaiting for fund deposit.</p>	<p>Time bound action plan to be submitted,</p>

	<p>b)Aluva market-</p> <p>c)Discharge of sewage from township to the river through drain near Periyar hotel shall be stopped.</p> <p>d)NEERI scientists visited the drains of Aluva Municipality.</p>	<p>Electrical Part: tender called</p> <p>Work will be completed by end of this financial year (2023-2024).</p> <p>Secretary to government instructed to submit action plan and time line for completion.Decided to prepare DPR</p> <p>MS, KSPCB instructed Aluva Municipality to take action to stop illegal outlets to drains leading to Periyar and progress is to be reported.</p> <p>Proposal for feasibility report will be submitted by NEERI.</p>	<p>Progress to be reported</p> <p>Progress to be reported</p>
<p>4</p>	<p>Kalamassery Municipality-</p> <p>a. STP</p> <p>b. Construction of retaining wall with HDPE liner at Kalamassery dumping yard in order to prevent the leachate discharge from the yard to Thoompungal Thodu</p> <p>c. Dumpsite</p> <p>d.</p> <p>e. NEERI scientists visited drain</p>	<p>The Secretary Kalamassery Municipality informed that DPR under preparation by KWA. MD KWA informed that the matter will be followed up.</p> <p>The Secretary also informed that drains</p>	<p>Details to be updated</p>

	of Kalamassery	to Periyar from 7 households and 3 commercial buildings are closed. Proposal for feasibility report will be submitted by NEERI.	
5	Kodungallur Municipality- STP	Secretary informed that no existing facility- Mini FSTP and STP are proposed but not started . Delayed due to transfer of employees. Implementation will be started within 2 months.1 mobile FSTP of 2MLD capacity is in proposal stage under SBM 2. Then it is informed that alternative proposal identified in Rejuvenation of Rivers DPR prepared by Irrigation Department (IDRB) under NHP can be considered.	Progress is to be reported. A meeting to be arranged with Irrigation, Directorate of Urban Affairs, concerned LSGIs and KSPCB.
6	Munnar Grama Panchayat a. Legacy waste management b. Solid waste management	Completed Windrow Plant (4 TPD) functional.	Progress noticed

	/ Cleaning of weeds, grasses at the river bank in order to ensure the smooth flow of water	Irrigation/ LSGI As an initiative of Ernakulam District Administration, the Edamula-Muttar-Varapuzha reach of Periyar has been cleaned under Operation Vahini 2023 for a length of 17.5Km.	Action taken report to be submitted.
8	Maintaining of Minimum flow in river during lean period and periodical operation of Regulators at River in-order to maintain minimum flow.	Irrigation Dept. reported that they are monitoring the flow and operating accordingly. The level is maintained for pumping stations of KWA.	Action taken report to be submitted.
9	Remediation of contaminated sites along the stretch of Periyar river and its tributaries, especially for those areas for which DPR has been made.	KSPCB, Industries Dept. Work can be started after getting signed agreement from HIL. Board also re-assessed the quality of soil and sediments at the proposed remediation area, in view of the recent flood occurred frequently in 2018, 2021 and 2022. Considerable decrease in the concentration of heavy metals and pesticides are observed and natural remediation is occurring at these sites. The matter was reported to CPCB on 19.06.2023 for further advice.	Progress is to be reported.

10	Installation of additional continuous online River water monitoring station.	<p>KSPCB</p> <p>2 stations are reported as working satisfactorily</p> <p>The online water quality monitoring stations at the upstream of Pathalam bund and at the downstream of river periyar provided.</p>	Completed.
11	Identification of the scientific reason for the colour change in the downstream of Pathalam bund.	<p>KSPCB</p> <p>Central lab has been entrusted. 1st phase completed. Samples collected from Aluva & Kalamassery. Meetings held with Evt. Dept. & CUSAT. Preliminary report prepared TOC is 66.27 %. Organic waste disposal results in DO depletion.</p> <p>MS, KSPCB enquired CE, Irrigation about any details in this regard with their Dept. And he agreed to share the same.</p>	Combined study by Board and Irrigation Dept. Is required. Meeting is to be arranged by CEE, RO, at Ernakulam office.
12	Ensuring the treated water reuse in major industries to reduce effluent discharge and pollution load in river due to industrial discharge. Encouraging the best performing industries for suitable conservation measures.	<p>KSPCB /Industries</p> <p>Conditions to reuse the treated effluent to the maximum extent is included in the Board's consent and compliance are monitored.</p>	Regular Activity.

13	Converting the service stations in the watershed area to zero discharge unit for preventing oil pollution and ensuring water conservation.	<p>Condition to reuse the treated effluent to the maximum included in consent & it is being monitored.</p> <p>12 service stations were identified. 1 station is without valid consent and notice issued. Matter being followed up.</p>	Progress is to be ensured.
14	Ensuring rain water harvesting and ground water recharge by industries, commercial establishments and residences.	<p>KSPCB, Industries & Water Resources Depts. and District Administration.</p> <p><u>KSPCB</u> reported that t h i s Conditions included in Consent to Establish and Consent to Operate.</p> <p><u>DIC</u> reported that Rain harvesting system will be implemented in units where land is available.</p>	Regular activity.
15	Construction of internal roads and proper drainage in Edayar industrial estate	<p>Industries Dept</p> <p>MSE CDP work completed, including completion of 13 nos internal road and 11 nos of drainage.</p> <p>Rs.6.2 crore released to EE PWD for Maintenance and repair of internal road. Rs.34 lakhs</p>	progress is to be reported

		released to EE PWD for drainage works. Tender procedure of the works are in progress. Work is expected to complete within 6 months.	
16	Installation of CC TV Camera, boards in public places.	<p>KSPCB reported 7 night vision cameras installed recently by PCB in addition to the existing 2 cameras for surveillance.</p> <p>LSGIs: All urban & rural local bodies directed to ensure projects in waste management including cctv , net fencing, trash traps, stps /fstps in revision projects for the FY 2023-24.</p>	<p>Completed</p> <p>Progress is to be reported.</p>
17	Procurement of Sewer cleaning machines and equipment maintenance	<p>LSGI</p> <p>Included in 2023-24 revision projects. Rs 25 lakhs allocated for Aluva municipality and Rs.30 lakhs for Kalamassery municipality and proposal not submitted for Piravom.</p>	Progress is to be reported.
17	Encouraging water sports and Establishing tourism spots across the river so that both the local and tourist people will feel ownership of river.	<p>LSGI, Irrigation, Tourism, District administration.</p> <p><u>Irrigation</u> <u>Department:</u></p>	LSGIs and District Administration has to update further.

		Action taken for encouraging tourism promotion. Eg: Thumbical chira in Keezhmadu Panchayath in Ernakulam District 10.35 acres of land desilted and proposal submitted for lotus ponds, adventure sports, agriculture.	
18	Install trash trap across all tributaries and check dams to collect whatever floating debris coming through it.	<p>LSGI, Tourism, District administration in association with Irrigation.</p> <p><u>Irrigation Department:</u></p> <p>Under the jurisdiction of Irrigation Department, there are no such check dams functioning across the branches of Periyar. The provision of trash trap is not needed for RCBs.</p> <p>Providing trash trap across the thodu before discharge into the river is not feasible due to technical as well as environmental reasons</p> <p>Directions given to LSGIs for installation.</p>	Progress is to be updated
19	Controlling the excessive use of pesticides for farming	LSGI, District Administration, Agriculture.	LSGI/Agriculture Dept. may be requested for updation during the meeting