

**MINUTES OF THE ELEVENTH MEETING OF THE
STATE LEVEL MONITORING COMMITTEE CONSTITUTED
BY THE HON'BLE NATIONAL GREEN TRIBUNAL
HELD ON 13th DECEMBER, 2019 AT GOVT. GUEST HOUSE,
THYCAUD, THIRUVANANTHAPURAM**

SLMC/KER/MNTS-11/2019

Present:

1. Justice A.V. Ramakrishna Pillai, Chairman, SLMC.
2. Smt. Sreekala S., Member Secretary, SLMC (Member Secretary, KSPCB).
3. Dr. Usha Titus, Principal Secretary, Environment Department.
(Additional Chief Secretary, Local Self Government Department could not be present due to official exigencies).

Participation:

1. Dr. Ajit Haridas, Chairman, KSPCB.
2. Sri. Baburajan P.K., Chief Environmental Engineer, KSPCB, Head Office, Thiruvananthapuram.
3. Sri. M.A. Baiju, Chief Environmental Engineer, KSPCB, Regional Office, Ernakulam.
4. Smt. Sindhu Radhakrishnan, Chief Environmental Engineer, KSPCB, Regional Office, Thiruvananthapuram.
5. Sri. B.K. Dinesh Kumar, Joint Director, Department of Panchayath, Thiruvananthapuram.
6. Smt. Sheela A.M., Senior Environmental Engineer, KSPCB, Head Office, Thiruvananthapuram.
7. Dr. Ummuselma, Joint Director (Health), Directorate of Urban Affairs, Thiruvananthapuram.
8. Sri. Ramesh G.R., Nodal Officer & Deputy Secretary, Health & Family Welfare Department, Thiruvananthapuram.
9. Smt. Minimol D., Nodal Officer & Joint Secretary, LSGD.
10. Smt. R.S. Kannan, Special Secretary, LSGD.
11. Sri. Santhosh R., Under Secretary, Environment Department.
12. Sri. P. Kesavan Nair, Managing Director, Clean Kerala Company Ltd.
13. Sri. Renju R. Pillai, Senior Consultant (Design), Suchitwa Mission.
14. Sri. Krishna Kumar S., Section Clerk, Panchayath Directorate.
15. Smt. Anu R.S., Secretary, Municipal Corporation, Kochi.
16. Sri. Joshy, Health Supervisor, Municipal Corporation, Kochi.
17. Sri. Kiran Surya K.T., Environmental Engineer, Municipal Corporation, Kochi.
18. Sri. Gopinath P.M., Assistant Environmental Engineer, Municipal Corporation, Kochi.
19. Sri. T. Sudheer, Deputy Secretary, Municipal Corporation, Kollam.
20. Sri. Biju B., Health Supervisor, Municipal Corporation, Kollam.
21. Sri. Radhakrishnan P., Secretary, Municipal Corporation, Thrissur.

22. Sri. Saju, Secretary, Municipal Corporation, Kannur.
23. Sri. K.T. Shaji, Secretary, Erumely Panchayath, Pathanamthitta.
24. Sri. Muhsin P.M., Assistant Secretary, Erumely Panchayath, Pathanamthitta.
25. Sri. Govindan Nampoothiri, Assistant Secretary, Ranni Perunnad Panchayath, Pathanamthitta.
26. Sri. Binu Francis, Secretary, Municipal Corporation, Kozhikode.
27. Sri. Siby Praveen S., Junior Health Inspector, Municipal Corporation, Kozhikode.
28. Sri. Udayabhanu M.P., Secretary, Kunnummal Grama Panchayath, Kozhikode.
29. Sri. Satheesan C.P., Secretary, Kuttiyadi Panchayath, Kozhikode.
30. Sri. Anilkumar K.P., Assistant Secretary, Meppayur Grama Panchayath, Kozhikode.
31. Sri. Anil Ramakrishnan, Secretary, Padiyoor Panchayath, Kannur.
32. Sri. Santhosh Kumar V.P., Secretary, Pariyaram Grama Panchayath, Kannur.
33. Sri. O.M. George, Secretary, Udayagiri Grama Panchayath, Kannur.
34. Sri. Manoj N., Secretary, Kinanoor- Karinthalam Panchayath, Kasaragod.
35. Sri. Robin Xavier, Secretary, Bedadukka Panchayath, Kasaragod.
36. Sri. Madhusoodanan V., Assistant Secretary, Madikkai Panchayath, Kasaragod.
37. Sri. Alexander George, Environmental Engineer, KSPCB, District Office, Pathanamthitta.
38. Sri. Josemon J., Environmental Engineer, KSPCB, District Office,, Kottayam
39. Sri. Aurther Xavier, Environmental Engineer, KSPCB, District Office,, Kasaragod
40. Smt. Mini Mary Sam, Environmental Engineer, KSPCB, District Office-1, Ernakulam
41. Smt. Shabna Kushe Shekhar, Environmental Engineer, KSPCB, District Office,, Kozhikode
42. Smt. Rachel Thomas, Assistant Environmental Engineer, KSPCB, District Office,, Kannur
43. Smt. Anjana Sasi, Assistant Executive Engineer, Travancore Devaswom Board
44. Smt. Bindu V. Gopal, Environmental Engineer, KSPCB, Head Office, Thiruvananthapuram.
45. Kum. Jisha T.J., Assistant Engineer, KSPCB, Head Office, Thiruvananthapuram.
46. Smt. Veena, Legal Assistant, KSPCB, Head Office, Thiruvananthapuram.
47. Smt. Deepthi S., CA, KSPCB, Head Office, Thiruvananthapuram.

The Eleventh meeting of the State Level Monitoring Committee constituted by the Hon'ble National Green Tribunal was held at 2.00 pm on 13th December

2019 at the Govt. Guest House, Thycaud, Thiruvananthapuram with the Chairman presiding. The Chairman welcomed all members and other participants.

AGENDA ITEMS DISCUSSED

I. Approval of minutes of the 10th meeting of the SLMC

Read and passed the minutes of the 10th meeting of the SLMC held on 08.11.2019.

II. Consideration of pollution control measures taken /to be taken in the light of demolition of apartments within the limits of Maradu Municipality, as per the directions of the Hon'ble Supreme Court.

The Chairman, SLMC enquired the details regarding the methodology adopted for the demolition of the apartments and also the control measures that are to be taken to prevent the pollution during demolition.

The Chairman, Kerala State Pollution Control Board explained that there will be dust and noise pollution due to the demolition during blasting as well as during segregation. It was also informed that the construction materials from the demolition will be handed over to crushers. The Board will be closely monitoring the pollution in the demolition area.

The Environmental Engineer, District Office-1, Ernakulam informed that she is a member of the Technical Committee constituted by the State Government in connection with the demolition of Apartments at Maradu. The apartments demolished in the area are Alfa Serene (two towers), Holy Faith H2O, Jain Housing and Golden Kayaloram (one tower each). She also informed that the contracts for the demolition of flats had already been issued and pre-demolition works have been started. As per the contract, all the salvages including steel shall be taken by the bidders, and it is the responsibility of the Maradu Municipality to dispose of the debris.

It was also informed that in the contract signed with the bidders by the Maradu Municipality, conditions are included so as to mitigate air pollution immediately after blasting and during the period required for separation of steel from concrete. The Technical Committee constituted for this purpose has

instructed to cover the compound up to a height of 10 meters to avoid flying of debris and to control dust pollution during the process of blasting. Directions are incorporated to use sprinklers so as to control the dust pollution during the process of separating steel for concrete blocks. The contractors informed that they use jack hammers for this purpose.

It was also pointed out that, for reducing the vibration, trenches of 1.5m to 3m depth will be constructed around the plot boundary. According to the bidders, they do not expect debris of demolished towers to reach the water body; it was informed. It was also informed that Municipality has provided insurance coverage for all the nearby residence for 1 year from the date of blasting; it was stated.

The Environmental Engineer further pointed out that, for disposing of the debris, the Municipality has selected a contractor who is proposing to store the debris in a plot with an area of about 1.25 acres of land at Chandiroor in Alappuzha District. The plot has been inspected by the Technical Committee and found that it is a dry land with compound wall on all sides. Certain industries are functioning adjacent to the plot. There is a residence within a distance about 15 meters on the southern side of the plot. Hence instructions have been given to the bidder to provide garden net at a height about 3 meters above the compound wall at that side and to sprinkle water during the time of unloading the debris. The contractor informed that he is planning to use the debris for road construction.

The Chairman, SLMC directed the Kerala State Pollution Control Board to closely monitor the entire process without giving room for any complaints regarding environmental pollution and to proceed against the violators, if necessary.

III. Consideration of pollution control measures taken at Sabarimala & Pamba for the pilgrimage season

The Chairman, SLMC informed that there are complaints regarding pollution at Sabarimala Sannidhanam and Pamba during the current season and that the major contribution is due to the failure on the part of the Travancore Devaswom Board in implementing the Environmental Laws in letter and spirit.

The Chairman, also invited the attention of the Committee to the order dated 09.08.2017 of the NGT in O.A.No.498/2015 which directed that all the

rivers in the country should maintain minimum flow of 15% to 20% of average lean season flow. The Chairman also pointed out in the light of the aforesaid direction, the Kerala State Pollution Control Board on 26.12.2018 had issued notice of all the Regional Offices and District Offices of the Kerala State Pollution Control Board for implementation. The Chairman further pointed out that the aforesaid direction of the NGT is applicable to River Pamba as well.

Regarding plastics reaching Sannidhanam and Pamba, the Chairman directed that hoardings, making people aware of the ban of plastic, be put up at Sabarimala as well as in the neighbouring Panchayaths.

The Environmental Engineer, Kerala State Pollution Control Board, District Office, Pathanamthitta informed that no flushing is taking place in the river. According to him atleast 5 cumecs flow is required for proper flushing and now the present flow is only 1 cumecs. He also informed there are no facilities for food waste treatment at Sannidhanam. It was further informed that, eventhough there is ban of plastic at Sabarimala, a lot of plastic covers are reaching Sabarimala. The ritual of leaving cloths in the river is continuing and they are being collected.

The Chairman Kerala State Pollution Control Board directed the Environmental Engineer, Pathanamthitta that direction should be given to Kerala State Electricity Board to release sufficient water from Kallar dam for flushing Pamba river once a day. The directions of the NGT as well as the Board can be submitted to the Vigilance by the KSEB, if required.

The Principal Secretary, Environment Department directed to take up the issue regarding the maintenance of flow in the river, with Kerala State Electricity Board and the Power Secretary and that removal of plastic should be ensured as plastic shall stand banned throughout the State from 1st January, 2020.

The Environmental Engineer, District Office, Kerala State Pollution Control Board, Kottayam informed that there is no proper treatment of sewage at Erumeli and therefore notice has been issued to TDB and Panchayath in this regard.

The Chairman SLMC has directed to KSPCB that proper action be taken against the violators, to ensure the aforesaid area is pollution free.

IV. Evaluation of progress of Waste Management in model local bodies of Kozhikode Corporation.

A. Kozhikode Corporation:

The Secretary, Kozhikode Corporation submitted the following:

- Agreement has been signed for cleaning the 1.2 m³ legacy waste at Njeliyan Parambu and the work will be started on 6th June onwards and will be completed within eight months.
- Agreement has been signed for waste to energy plant.
- The waste to energy treatment consist of two phases. The first one is Methanization stage and the second one is waste to energy process.
- Out of Seventy five wards Haritha Karma Sena collects wastes from fifty two wards.
- Eighteen vehicles are used for collection of waste.
- Daily collection of waste is hundred tonns out of which twenty five tonns of manure is produced daily.
- Two MRFs are installed in the Corporation.

The Environmental Engineer, District Office, Kerala State Pollution Control Board, Kozhikode informed that achievement of the Corporation in waste collection is 60%. It was opined that the efficiency of door to door collection has to be strengthened. At present the quantity of waste collected per day is only hundred tons. Three biogas plants are installed in the Corporation.

The Member Secretary, SLMC enquired how the market wastes are disposed of and directed that legacy waste should be disposed of by bio mining and not by capping.

The Chairman, Kerala State Pollution Control Board directed the Environmental Engineer, to visit the site on the next Monday, to verify the process to be carried out by the Corporation for the treatment of the legacy waste and to submit a detail report.

The Chairman, SLMC instructed that the legacy waste should not be merely capped since it would create leach ate problems and therefore it should be bio

mine. The Environmental Engineer was directed to verify the proposal of the Corporation.

The Chairman, SLMC enquired with the Environmental Engineer, KSPCB, District Office, Kozhikode, which of the model Panchayaths is best. The Environmental Engineer informed that Meppayur is the best among the three model Panchayaths in Kozhikode District.

B. Meppayur Panchayath:

The Secretary, Meppayur Panchayath submitted the following:

- Achievement of the Panchayath in waste collection is 80%.
- One vehicle is used for door to door collection.
- There are 1840 establishments in the Panchayath.
- There is one MCF in the Panchayath.
- There are two canals in the Panchayath which are highly polluted. If these are cleaned, water can be used for irrigation.
- Source level wet waste treatment is done.

The Member Secretary enquired regarding the wet waste collection from market and also regarding implementation of plastic ban in the Panchayath.

The Senior Consultant (Design), Suchithwa Mission informed that draft byelaws regarding user fee is submitted to Government for approval.

The Chairman, SLMC directed to establish an aerobic composting units within fifteen days in the Panchayath. He also directed the Suchithwa Mission to follow up the processing of finalization of the byelaws with the concerned department.

C. Kunnumel Panchayath:

The Secretary Kunnumel Panchayath submitted the following:

- There are thirteen wards in the Panchayath.
- The achievements in door to door collection is 80%.
- One MCF is installed in the Panchayath.
- Food wastes collected from hotels, restaurants are given to pig farms.

The Environmental Engineer informed that sample survey has been conducted covering two hundred houses. Source level treatment is being done in houses and door to door collection is efficient.

The Chairman, Kerala State Pollution Control enquired about the wet waste collection from establishments.

The Member Secretary enquired with the Environmental Engineer, District Office, Kerala State Pollution Control Board, Kozhikode regarding verification of activities of the Panchayath. The Member Secretary directed the Environmental Engineer to submit report regarding wet waste collection from establishment next week itself.

The Chairman, SLMC informed that the time granted by NGT to make the model local bodies compliant with environmental laws is already over. He warned that performance audit would be conducted and fine fixed for non performance.

D. Kuttiyadi Panchayath:

The Secretary Kuttiyadi Panchayath submitted the following:

- Achievement of the Panchayath in waste collection is 80%.
- Haritha Karma Sena members are working in 14 wards of the Panchayath.
- One MCF is installed in the Panchayath.
- Collection frequency is once in three months.

The Member Secretary enquired about the wet waste collection from markets and establishments.

The Panchayath Secretary informed that there is no wet waste collection in the Panchayath. He also informed that here is a proposal for installation of twenty eight mini MCF and one MCF in the Panchayath and the tendering process is over.

The Principal Secretary, Environment Department, enquired about the plastic waste management and directed that collection frequency should be increased.

The Chairman Kerala State Pollution Control Board remarked that collection frequency should be increased.

The Director, Clean Kerala Company informed that RRF is installed in the Kunnummal Block.

The Chairman, SLMC directed that waste should be removed periodically and should be treated scientifically.

V. Evaluation of progress of Waste Management in model local bodies of Kannur District.

On enquiry, the Assistant Environmental Engineer, Kerala State Pollution Control Board, District Office, Kannur stated that out of the three model Panchayaths in the district, performance of Padiyur Panchayath is the best.

A. Padiyur Panchayath:

The Assistant Secretary Padiyur Panchayath submitted the following:

- Haritha Karma Sena members are collecting wastes from 15 wards of the Panchayath.
- One MCF and one RRF are installed in the Panchayath.
- Collection frequency is twice in one month.
- Fine of Rs. Two Lakhs has been imposed on violators.
- Households have source level for wet waste treatment.

The Member Secretary enquired whether the kitchen bins, composting units are working properly and requested the Suchithwa Mission to help the Panchayath to troubleshoot working of source level treatment systems.

The Chairman, SLMC said that steps be taken to treat all the waste generated in the Panchayath itself.

B. Pariyaram Panchayath:

The Secretary, Pariyaram submitted the following:

- Three awareness programs were conducted in the Panchayath.
- Achievement of the Panchayath in waste collection is 99%.
- Three MCFs and RRF are working in the Panchayath.
- Collection frequency is once in a month.
- Shredding and bailing are done in the RRF.

- Thumboor Mozhi type unit will be installed within two weeks.

The Secretary of Panchayath informed that unsegregated waste from nearby Panchayath including Chapparapadavu Panchayath are reaching the RRF.

The Chairman Kerala State Pollution Control Board remarked that the collection frequency of once a month is not acceptable and advised to increase the frequency.

The Principal Secretary, Environment Department enquired about the amount of fine collected on residents area of banned plastic.

The Member Secretary directed that achievement should reach 100% without any further delay.

The Chairman SLMC directed the Assistant Environmental Engineer, Kerala State Pollution Control Board, District Office, Kannur to give direction to Chapparapadavu Panchayath regarding the transfer unsegregated waste from the Panchayath to the RRF in Pariyaram Panchayath.

C. Udayagiri Panchayath:

The Secretary, Udayagiri Panchayath submitted the following:

- One MCF is installed in the temporary building. A permanent building is under construction.
- Collection frequency is once in a month.
- Bio gas plants, pipe composts pit composts are supplied to hundred and fifty houses in the Panchayath.
- Green Protocol is practiced in auditoriums, Haritha Karma Sena supplies steel plate and steel glasses for functions.

The Member Secretary cautioned that green protocol should be followed and random checking should be done by the Panchayath.



VI. Evaluation of progress of Waste Management in model local bodies of Kasaragod District

On enquiry the Environmental Engineer, KSPCB, District Office, Kasaragod said that out of the three Model Panchayaths in the district, the performance of Bedadukka Panchayath is the best.

A. Bedadukka Panchayath:

The Secretary, Bedadukka Panchayath submitted the following:

- Haritha Karma Sena members are working in Seventeen wards of the Panchayath.
- One RRF and eighty one mini MCFs are working in the Panchayath.
- Agreement was signed for installation of Thumboormozhi in the Panchayath.
- The overall achievement of waste collection is 80% in the Panchayath.
- Cloth bags are produced and marketed through Kudumbasree workers.

The Chairman, SLMC directed that a rendering plant be installed in the Panchayath.

The Member Secretary enquired about the plastic ban in the Panchayath. The Panchayath was directed to submit the proposal for rendering plant.

B. Kinanoor- Karinthalam Panchayath :

The Secretary Kinanoor- Karinthalam Panchayath submitted the following:

- Total achievement in the waste collection in the Panchayath is 80%.
- One MCF is working in the Panchayath.
- Fine is being imposed on violators.
- Collection frequency is once in three months; density of population such as plastic is very less.

The Principal Secretary, Environment remarked that adequate transportation facility should be provided to the Haritha Karma Sena workers for door to door

collection. Also warned that time for 100% achievement is over and may attract fine from NGT.

The Member Secretary reminded the local bodies that in plan fund allocation of Panchayaths, the first preference should be for waste management.

C. Madikkai Panchayath:

The Secretary, Madikkai Panchayath submitted the following:

- Haritha Karma Sena members are working in fifteen wards of the Panchchayath.
- One MCF is installed in the Panchayath.
- Achievement of plastic wastes collection is 90%.
- Source level treatment for households such as compost pit are provided.
- Bio gas plants will be provided by 31st January, 2020.

The Chairman SLMC remarked that the progress is not up to the expectation.

VII. Sharing of best practice in municipal solid waste management with special reference to Indore Municipal Corporation by Pollution Control Board Chairman

The Secretaries of all the Municipal Corporations in the State were directed to attend the meeting so that they would be benefited by the information gathered by Chairman, KSPCB. The Secretaries of all the Municipal Corporations except Thiruvananthapuram Municipal Corporation were present.

It was resolved the remarks of the Secretary, Municipal Corporation, Thiruvananthapuram be obtained for the absence.

The Chairman Kerala State Pollution Control Board made a presentation on Indore model of Solid Waste treatment for the benefit of the Corporations present. The important points of the presentation are following.

- Wet, dry and hazardous wastes are segregated at houses and deposited in separate bins. These are placed in front of each house during the collection time. Vehicles are tracked by IMC Central Control Room.

- Sectioned bins are provided in the GPS tracked collection vehicle for collection of segregated waste. The arrival of the vehicle is made known by way of playing music “Swachhata ganam”.
- The collection vehicles are automatically weighed at transfer station for daily collection of wet and dry waste separately. The data is generated at IMC Central Control Room.
- Waste generation per day is 1100 tons. This is collected and treated on the same day itself. A 300 tpd fully mechanized MRF is provided for processing dry waste.
- Bio methanaization gases are used as fuel in public transportation buses.
- Hundred acres of land was bio mined within six months.
- Three hundred fifty MLD capacity STP is installed in the Corporation.
- IMC has 6000 employees for Solid Waste Management on its rolls. Another 3000 workers are employed on contract.
- The user fee collected in Rs. 150/- per month for houses in the higher income group and Rs. 90/- per month for lower income group.
- Commercial area waste are collected two to four times daily.
- Road sweeping is carried out daily. Sweeping machines are used.

The following Resolutions were taken in the meeting:

1. Local bodies should ensure that catering groups functioning in their respective area put up digester for treatment of bio degradable waste generated.
2. Thumboormozhi decentralized facility should be setup in the premises of the Panchayath/Municipality building itself in all local bodies. Technical advice, facilitation and support should be provided by Suchithwa Mission for model local bodies for this. Clean Kerala Company should also help to install facilities in model local bodies.
3. Clean Kerala Company should pick up the non biodegradable waste collected and stored in the various local bodies once a month.
4. Squad should be formed in all local bodies to apprehend persons throwing waste illegally and impose fine.

5. Local bodies shall install cameras to identify persons dumping waste in public places and water bodies. Environmental degradation shall be assessed and compensation shall be levied from culprits.
6. Best practices of all local bodies should be categorized by Suchithwa Mission and awareness spread among other local bodies.
7. Training programs, as conducted for the Secretaries of the Model Local Bodies in the State, be arranged by the KSPCB, for the Secretaries of all other local bodies in the State. A module as well as time schedule shall be prepared by the KSPCB and the entire process including the training programs shall be completed before the last week of January, 2020.
8. The Chief Secretary, Government of Kerala be addressed to prevail upon all the District Collectors in the State to prepare the District Environmental Plans as directed by the Hon'ble NGT in the order dated 15.07.2019 in O.A.No.713/2017 and to make such plans available in the public domain (through website) without fail.

The Chairman, SLMC thanked all the participants. The meeting concluded at 4.30 PM.


CHAIRMAN