

Annexure R 2 (C)
(3 pages)

Minutes of the Committee meeting held on 03.05.2021 via google meet subsequent to the Order dated 09.03.2021 of Hon'ble National Green Tribunal in O.A Nos.76 of 2017, 259 of 2017 and 260 of 2017 dealing with Air pollution and related matters in eight cities of Kerala.

The meeting commenced at 03.00 pm. The following committee members attended the meeting.

1. Dr M.T Karuppiah
Scientist 'D' MoEF & CC
Regional Office, (South Eastern Zone) – Chennai
2. Dr R. Sivacoumar
Sr. Principal Scientist
CSIR- NEERI Zonal Centre, Chennai.
3. Dr Deepesh. V
Scientist 'C'
Central Pollution Control Board
Regional Directorate -South (Bengaluru)
4. Smt. Bindhu Radhakrishnan (Member Convener)
Senior Environmental Engineer
Kerala State Pollution Control Board.

Smt. Bindhu Radhakrishnan, the Member Convener, cordially invited the members of the joint committee to the meeting. Dr S Prabhu Scientist 'C' MoEF & CC, Regional Office (South Zone) – Bengaluru conveyed that he is unable to attend the meeting due to some unavoidable personal reasons. Shri Bijumon K, Enforcement RTO, Motor vehicle Dept. had not attended the meeting and not informed any inconvenience.

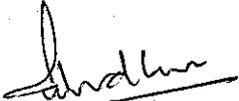
As per the decisions taken in the last meeting held on 16.04.2021 Dr R. Sivacoumar had submitted a detailed proposal on Emission inventory, Air quality assessment, modelling and simulation, Cost and source apportionment studies for the eight cities (Thiruvananthapuram, Kollam, Kochi, Alappuzha, Kozhikode, Thrissur, Kasaragod, and Kannur) of Kerala state. The convener

shared the list of agencies (Viz. IIT madras, NIT Calicut, ARAI, CSIR-NEERI, TERI) suggested by Dr Deepesh. V to carry out the source apportionment and emission inventory studies as per CPCB guidelines. The Committee also discussed selection criteria to be followed for the selection of agencies to carry out the study. Smt. Bindhu Radhakrishnan, Dr Sivacoumar and Dr M.T Karuppiyah highlighted the need of selecting agencies which has prior experience in the field. Dr Deepesh V informed the committee that NEERI, Nagpur, IIT Mumbai, IIT Delhi, IIT Kanpur, ARAI, Pune and TERI, Delhi are some of the organizations having expertise in the field with experience for conducting the study as per the CPCB methodology. Dr Deepesh. V also suggested the KSPCB to get the LoE and project proposals/ project estimate from these organizations for conducting source apportionment and emission inventory studies for each city. Dr M.T Karuppiyah recommended the committee to avoid the Academic institutions from the list and to include other agencies which are having prior experience in the field. Dr Sivacoumar while agreeing to Dr M.T Karuppiyah recommended the need of directing the agencies not to outsource any part of the project. Other committee members agreed to all the above points

Smt. Bindhu Radhakrishnan explained the updated suggestions of the Chairman and the Member secretary to seek order from the Hon'ble NGT to carry out the study in one city only (i.e.; In Cochin area) rather than conducting the study in all the eight cities together. While agreeing to the above, Dr R. Sivacoumar suggested to include one more city i.e.; Thiruvananthapuram, considering the importance of being the capital city.

The Committee members then started discussing about cost requirement of the study. Dr R. Sivacoumar started the discussion by seeking the opinion of Dr Deepesh on minimum expected cost for conducting the study in both Thiruvananthapuram and Cochin cities. He informed the committee that cost requirement for a full-fledged study including air quality assessment covering all seasons, emission inventory and source apportionment studies could be approximately 2 crores for each cities. Also pointed out that the cost of the studies can be met from NGT EC fund maintained by CPCB or KSPCB on obtaining a direction from Hon'ble NGT after submitting the action plan. Dr R. Sivacoumar suggested to have a discussion to finalize whether the study needs to be conducted for eight cities together, if the fund can be raised from NGT EC funds and to finalize the financial part of the study. Dr M.T Karuppiyah also opined that time requirement and fund requirement needs to be conveyed to Hon'ble NGT and suggested to get clear direction regarding the funding of the study.

Meeting came to an end at 03.45 pm.

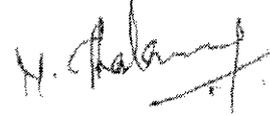

CONVENOR

**LIST OF ATTENDANCE OF THE VIDEO CONFERENCE CONDUCTED
ON 03.05.2021**

MEMBERS

SIGNATURE

1. Dr. M.T Karuppiah
Scientist 'E',
MoEF& CC, Regional Office,
Chennai.



2. Dr. S Prabhu
Scientist 'C'
Regional Office (South Zone)
MoEF& CC Regional Office,
Bengaluru

Absent

3. Dr. Deepesh. V
Scientist 'C'
Regional Directorate,
Central Pollution Control Board,
Bengaluru



4. Dr. R. Sivacoumar, Sr.
Principal Scientist
CSIR- NEERI Zonal Centre CSIR
Complex, TTTI, Chennai.



5. Sri. Bijumon K
Regional Transport Officer
Enforcement Division,
Thiruvananthapuram

Absent

6. Smt. Bindhu Radhakrishnan Senior
Environmental Engineer Kerala State
Pollution Control Board,
Thiruvananthapuram

