

**J&K LAKES AND WATERWAYS DEVELOPMENT AUTHORITY  
MISKEEN BAGH, RAINAWARI, SRINAGAR-190003**

**Minutes of the Scientific Advisory Committee Meeting held on 19.08.2017 at SKICC,  
Srinagar.**

*Members of the Scientific Advisory Committee who participated in the meeting:*

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|----------------------------------------------------------------------------------------------------------------------|----------|
| 1. Dr.A.R. Yousuf<br>(Ex-Member Green Tribunal, GOI)                                                                 | Chairman |
| 2. Dr. D.P.Zutshi<br>(Former Emeritus Professor, JNU, New Delhi.)                                                    | Member   |
| 3. Dr. Sidharath Kaul<br>(Ex-Advisory Ministry of Environment and Forest)                                            | Member   |
| 4. Dr. Ashok Pandita<br>Prof. (Re-employed) Aquatic Ecologist,<br>Kashmir University, Srinagar.                      | Member   |
| 5. Dr.G.Balachandra<br>(Trustee and Ex-Director, Ashoka Trust for<br>Research in Ecology and Environment Bangalore.) | Member   |
| 6. Dr.Pinaki Sar<br>Associate Professor, Deptt. of Biotechnology, IIT,<br>Kharagpur.                                 | Member   |
| 7. Dr.Manzoor Ahmed Shah<br>(Sr. Assistant Professor, Deptt. of Botany,<br>University of Kashmir.)                   | Member   |
| 8. Dr.Shakeel Ahmed Ramshoo<br>(Head Deptt. of Earth Sciences, Kashmir University)                                   | Member   |
| 9. Dr. Mohammad Sultan Bhat<br>(Prof. Deptt. of Geography and Regional<br>Development, University of Kashmir.)       | Member   |
| 10. Dr. Farooq Ahmed Lone<br>(Associate Prof. Div. of Environmental<br>Science, SKAUST, Srinagar.)                   | Member   |
| 11. Shri Mohammad Shafi Bacha<br>(Retd. Chief Wild Life Warden, Srinagar.)                                           | Member   |
| 12. Dr. Abdul Hafiz Shah<br>(Vice Chairman, J&K LDA.)                                                                | Convener |

*Special invitee:*

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|---------------------------|--------------------------------|
| 1. Shri Zaffar Shah       | Amicus Curie.                  |
| 2. Mr. Hirdish Kumar, IAS | Commissioner Secretary, H&UDD. |

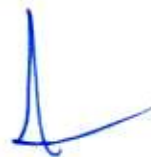






committees will also include the members nominated by Lakes and Waterways Development Authority.

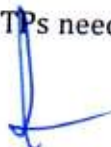
3. **Water quality analysis report:** It was decided that the SAC members will submit their comments/views on the limnological data on the water quality of Dal lake prepared by R&M wing to Dr. Manzoor A. Shah, Sr. Assistant Professor, **Deptt.** of Botany, University of Kashmir and Prof. D. P. Zutshi, Former Emeritus Professor, JNU, New Delhi, so that they prepare a note on the interpretation of the data. The members were asked to send their comments within one week for enabling Prof. Zutshi and Dr. Shah to finalize the document of interpretation within 2 to 3 weeks thereafter. The members wanted some details regarding the methodology adopted and procedures followed during sampling and analysis which the Vice Chairman, LDA assured to provide separately.
4. **Vegetation mapping:** An interim progress/status report on vegetation mapping was submitted to the SAC members by Dr. Manzoor Ahmed Shah, Sr. Assistant Professor, Deptt. of Botany, University of Kashmir, who has been assigned the project of vegetation mapping of Dal lake. However, Dr. Manzoor Ahmed Shah assured that the process shall be expedited and the final report will be provided within a fortnight for deliberations of SAC members.
5. **Portable Eco-sounder:** The Vice Chairman, LDA informed the committee members that "on spot demonstration" of portable Eco-sounder fitted with **Global Positioning System** will be arranged in Srinagar in the first week of September, so that accurate bathymetric study is carried out for 3D modeling of the bed of the Dal and Nigeen lakes with the help of GPS aided eco-sounder.
6. **Decline in the native species in fish:** The Chairman of the SAC did not agree with the report of the Fisheries Department that the grass carp and silver carp has not been stocked in the lake. He was of the opinion that stocking of grass and silver carp in Dal lake waters is a matter of public knowledge, therefore, the report of the Department of Fisheries is at variance with popular perception. He maintained that the introduction of exotic species in the past has severely affected the population of local fishes and as such utmost care needs to be taken before releasing any new exotic fish in our waters.



7. **Vision Document:** Dr. A.A. Kazmi, Professor Civil Engineering Department, IIT, Roorkee and Mr. Nayan Sharma, Emeritus Professor, Water Resources Development & Management Department, IIT, Roorkee gave a detailed presentation on the "vision document" for the preservation of Dal-Nigeeen lake. The document came up for detailed discussion and deliberation by SAC members.
8. The discussions on the Vision document were initiated by the Learned Amicus Curie, Sh. Zafar A. Shah. He informed the members that the recommendations of 2<sup>nd</sup> SAC meeting have been made part of the order passed by Hon'ble High Court. While commenting on the presentation made by Mr. Nayan Sharma, Mr. Shah said that seemingly siltation is the major problem faced by the lake and raised concern about the quantity of untreated sewage that will flow into the lake during the period of construction of new STP which is proposed to be completed in 3 years.
9. During the deliberations all the members of the SAC pointed out certain discrepancies and missing links in the Vision Document. It was decided that all the members will send their individual comments to Dr. Sidarath Kaul as early as possible, so that he compiles the same and forwards the consolidated comments on the vision document to Prof. A. A. Kazmi for incorporating these suggestions in the document and for responding to the observations of SAC members.

The meeting was also addressed by the Commissioner/Secretary, H&UDD who requested the members to provide suggestions regarding the biological interventions for the control of weeds and algal blooms in the lake after carrying out experiments in retention ponds on the Northern Foreshore Road infested with invasive plant species and algal proliferation. He further said that sewage cannot be allowed to flow into the lake and it has been decided that one new 30 MLD STP at Gupt Ganga, Ishber will be constructed and 3 existing STPs shall also be upgraded. He stressed on the implementation of immediate short term measures so that there is perceptible change in the lake.

The meeting was then addressed by the Chairman SAC. He said that construction of new STP and the proposed upgradation of existing STPs need to be carried out in a time





out in a time bound manner keeping in view the future growth of population as well as the fast declining efficiency of the existing STPs.

The meeting ended with the Vice Chairman, LDA thanking the Chairman and all the members of the Scientific Advisory Committee for giving their valuable suggestions on various issues faced by lake. After conclusion of the meeting, the committee members visited Dal lake to review the massive operation being carried out for removal of lily patches.

Sd/=  
(Dr. A. H. Shah)  
Vice Chairman  
J&K Lakes & Waterways Dev. Authority  
(Convener, SAC)


Sd/=  
(Dr. A.R. Yousuf)  
Chairman, SAC

No. RAM/LDA/264-75

Dated: 23 - 08 - 2017

Copy to the:-

1. Dr. A.R Yousuf, Ex. Member, Green Tribunal, GoI.
2. Dr. D.P Zutshi, Former Professor, JNU, New Delhi.
3. Dr. S.Koul, Ex. Advisor, MoEF, GoI.
4. Dr. Ashok Kumar Pandit, Aquatic Ecologist, Kashmir University.
5. Dr. G. Balachandra, Trustee and Ex. Director, Ashoka Trust for Research in Ecology and Environment, Bangalore.
6. Dr. Pinaki Sar, Associate Professor, Deptt. of Biotechnology, IIT Kharagpur.
7. Dr. Manzoor Ahmed Shah, Sr. Asstt. Professor, Department of Botany, Kashmir University.
8. Dr. Shakeel Ramshoo, HOD, Deptt. of Earth Science, Kashmir University.
9. Dr. Mohammad Sultan Bhat, Professor Deptt. of Geography and Regional Development, Kashmir University.
10. Dr. Farooq Ahmed Lone, Associate Professor, Deptt. of Environment Science, SKUAST, Srinagar.
11. Shri Mohammad Shafi Bacha, Rtd. Chief Wildlife Warden, Srinagar.
12. Dr. T. Nandi, Sr. Scientist, NEERI.

  
(Sumera Shamim), KAS  
Secretary  
J&K Lakes and Waterway Development Authority,  
Srinagar