

Stakeholder Consultation on Aquifer Management and Water Governance in Kerala.

Questionnaire for Survey

Personal Information:

Name (Optional):

Age:

Gender:

Occupation:

Location (District/Region):

Questionnaire:

1. Are groundwater levels regularly monitored in the aquifers of your region in Kerala?

Yes/No

2. Is there a comprehensive understanding of the aquifer's recharge rate in your region in Kerala?

Yes/No

3. Are there regulations in place to limit groundwater extraction from aquifers of your region in Kerala?

Yes/No

4. Is there a plan in place for sustainable groundwater use in Kerala?

Yes/No

5. Are there any measures in place to prevent contamination of the aquifers in Kerala?

Yes/No

6. Are there any measures in place to prevent contamination of the aquifers in Kerala?

Yes/No

7. Are alternative water sources/ water circularity considered to reduce reliance on the aquifer?

Yes/No

8. Is there a system in place for managing conflicts over aquifer use in Kerala?

Yes/No

9. Is there collaboration between stakeholders for aquifer management in kerala?

Yes/No

10. Are there financial incentives for sustainable aquifer management in kerala?

Yes/No

(Rating Scale Questions (1-5 scale, with 1 being "Strongly Disagree" and 5 being "Strongly Agree")):

11. The current aquifer management practices effectively preserve groundwater resources in Kerala.

1	2	3	4	5

12. There is sufficient government regulation to protect the aquifer from overexploitation in Kerala.

1	2	3	4	5

13. Community involvement is adequately considered in aquifer management decisions in Kerala.

1	2	3	4	5

14. The monitoring and data collection methods for the aquifer are comprehensive and reliable in Kerala.

1	2	3	4	5

15. There is a clear long-term strategy for aquifer management in place in Kerala.

1	2	3	4	5

16. The current water usage from the aquifer is sustainable for future generations in Kerala.

1	2	3	4	5

17. The aquifer management plans address potential risks such as pollution and saltwater intrusion effectively.

1	2	3	4	5

18. Stakeholders are sufficiently engaged in the decision-making processes regarding aquifer management in Kerala.

1	2	3	4	5

19. Financial resources allocated for aquifer management are adequate in the state of Kerala.

1	2	3	4	5

20. Overall, how would you rate the effectiveness of aquifer management efforts in your area?

1	2	3	4	5

Note: (1 being "Very Ineffective" and 5 being "Highly Effective")

Water Governance in Kerala:

21. Which primary source(s) do you rely on for domestic water consumption?

- a. Municipal water supply
- b. Well water
- c. River/stream water
- d. Rainwater harvesting
- e. Other (please specify):

22. How satisfied are you with the quality of water provided for domestic use in your area?

- a. Very satisfied
- b. Satisfied
- c. Neutral
- d. Dissatisfied
- e. Very dissatisfied

23. How frequently do you encounter water shortages or disruptions in your locality?

- a. Daily
- b. Weekly
- c. Monthly
- d. Rarely
- e. Never

24. Are water management responsibilities clearly defined among relevant institutions in Kerala?

Yes/No

25. Is there a legal framework in place that supports integrated water resources management?

Yes/No

26. Does Kerala have mechanisms for stakeholder engagement in water governance decisions?

Yes/No

27. Are there transparent mechanisms for water allocation and distribution in Kerala?

Yes/No

28. Is there an established system for monitoring water quality across various water sources in Kerala?

Yes/No

29. Are there measures in place to address water pollution and ensure water quality in Kerala?

Yes/No

30. Does Kerala have mechanisms to ensure water access for marginalized and vulnerable communities?

Yes/No

31. Are there policies or programs in place to promote water conservation and efficiency in Kerala?

Yes/No

32. Is there coordination among different levels of government for water management in Kerala?

Yes/No

33. Are there mechanisms for conflict resolution related to water issues in Kerala?

Yes/No

34. Is there public access to information regarding water management decisions and policies in Kerala?

Yes/No

35. Are there initiatives to promote public awareness and education about water conservation in Kerala?

Yes/No

36. Are there mechanisms to ensure accountability and transparency in water governance in Kerala?

Yes/No

37. Is there a strategy in place to address the impacts of climate change on water resources in Kerala?

Yes/No

38. Are there mechanisms to integrate traditional knowledge and practices into water governance in Kerala?

Yes/No

39. Are there regulations in place to control illegal water extraction or usage in Kerala?

Yes/No

40. Is there a mechanism for regular review and evaluation of water governance policies and programs in Kerala?

Yes/No

41. Are there initiatives to promote sustainable water use in industries and agriculture in Kerala?

Yes/No

42. Are there financial resources allocated specifically for water governance and management in Kerala?

Yes/No

43. Is there coordination between Kerala and neighbouring states on transboundary water issues?

Yes/No

In the following Questions The Rating Scale Questions (1-5 scale, with 1 being "Strongly Disagree" and 5 being "Strongly Agree"):

44. The current water governance framework in Kerala effectively addresses the needs of all stakeholders.

1	2	3	4	5

45. There is adequate transparency in water governance decisions and processes in Kerala.

1	2	3	4	5

46. Stakeholder participation is valued and effectively integrated into water governance in Kerala.

1	2	3	4	5

47. Water policies and regulations in Kerala are effectively enforced.

1	2	3	4	5

48. The current water governance framework in Kerala is resilient to climate change impacts.

1	2	3	4	5

49. Water management initiatives in Kerala prioritize long-term sustainability over short-term gains.

1	2	3	4	5

50. The water governance framework in Kerala encourages innovation and technology adoption for efficient water management.

1	2	3	4	5

51. Financial resources allocated for water governance in Kerala are sufficient to address water security challenges.

1	2	3	4	5

52. The water governance framework in Kerala takes into account the needs of future generations.

1	2	3	4	5

53. Water governance decisions in Kerala are based on robust scientific evidence and data.

1	2	3	4	5

54. There is a clear accountability mechanism for failures in water governance in Kerala.

1	2	3	4	5

55. Traditional water management practices are effectively integrated into modern governance systems in Kerala.

1	2	3	4	5

56. The water governance framework in Kerala fosters cooperation and collaboration among various stakeholders.

1	2	3	4	5

57. On a scale of 1 to 5, how would you rate the overall quality of drinking water in Kerala? (1 being very poor, 5 being excellent)

1	2	3	4	5

58. How would you rate the effectiveness of water quality monitoring systems in Kerala in ensuring the safety of drinking water? (1 being very ineffective, 5 being highly effective)

1	2	3	4	5

59. How easily accessible do you find water quality data and reports generated by government agencies in Kerala?

- Very difficult to access
- Difficult to access
- Moderately accessible
- Accessible
- Very accessible

60. To what extent do you believe that government agencies, research institutions, and community organizations in Kerala share water quality data and collaborate on monitoring efforts?

- Very minimal sharing and collaboration
- Minimal sharing and collaboration
- Moderate sharing and collaboration
- Substantial sharing and collaboration
- Extensive sharing and collaboration

61. To what extent do you feel that public participation is encouraged in water governance decision-making processes in Kerala?

- Not encouraged at all
- Slightly encouraged
- Moderately encouraged
- Highly encouraged
- Very highly encouraged

62. How informed do you feel about participatory approaches in water quality surveillance in your locality?

- Not informed at all
- Somewhat informed
- Moderately informed
- Well-informed
- Very well-informed

63. Do you believe that participatory water quality surveillance has positively impacted to noticeable improvement of water management and governance practices in Kerala?

- Yes, significant improvements
- Yes, minor improvements
- No, negligible improvements
- No, worsened conditions
- Unsure

64. Do you believe that participatory approaches in water quality surveillance are sustainable and viable for long-term monitoring of water resources in Kerala?

- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree

65. How frequently do you think surveillance and monitoring should be conducted to assess the impact of solid and liquid waste disposal on water quality?

- Daily
- Weekly
- Monthly
- Quarterly
- Annually

66. How would you rate the enforcement of regulations by government authorities regarding the treatment and disposal of solid and liquid waste to protect water quality in Kerala?

- Very poor
- Poor
- Moderate
- Good
- Very good

67. How often do you observe foul odors emanating from stormwater drains in your locality?

- Very frequently
- Occasionally
- Rarely
- Never

68. Have you noticed any visible signs of contamination of sewerage in stormwater drains?

- Yes, frequently
- Yes, occasionally
- Rarely
- Never

69. How concerned are you about the potential health hazards and environmental degradation caused by the mixing of sewerage with stormwater drains?

- Extremely concerned
- Moderately concerned
- Slightly concerned
- Not concerned at all

70. How well does the faecal sludge disposal process align with the specific guidelines outlined in national standards for sanitation and wastewater management?

(1 being very ineffective, 5 being highly effective)

1	2	3	4	5

71. How transparent is the governance structure overseeing faecal sludge management, including monitoring, enforcement, and stakeholder engagement?

(1 being very ineffective, 5 being highly effective)

1	2	3	4	5

The Rating Scale Questions (1-5 scale, with 1 being "Strongly Disagree" and 5 being "Strongly Agree"):

72. The current water governance framework in Kerala is adaptable to changing socio-economic and environmental conditions.

1	2	3	4	5

73. The water governance framework in Kerala promotes gender equality and social inclusivity in water management.

1	2	3	4	5

74. There is adequate investment in infrastructure for water storage, distribution, and treatment in Kerala.

1	2	3	4	5

75. Water governance policies in Kerala prioritize the protection of ecologically sensitive areas and water bodies.

1	2	3	4	5

76. The water governance framework in Kerala effectively balances the needs of different water users.

1	2	3	4	5

77. Water governance decisions in Kerala are transparently communicated to the public.

1	2	3	4	5

78. Overall, how would you rate the effectiveness of water governance in Kerala in ensuring water security?

1	2	3	4	5

79. Water reuse and recycling practices are effectively promoted and implemented across sectors in Kerala.

1	2	3	4	5

80. There are sufficient incentives and policies in place to encourage industries and municipalities in Kerala to adopt water circularity practices.

1	2	3	4	5

81. The current water management framework in Kerala encourages the efficient use and conservation of water resources through circular economy principles.

1	2	3	4	5

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