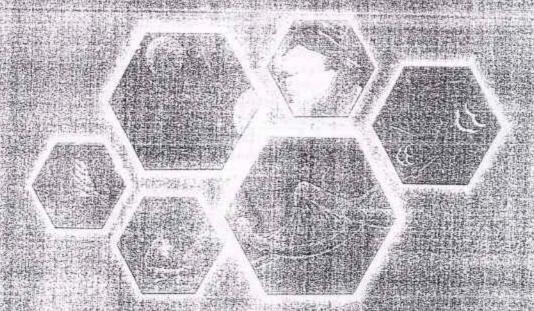
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STUDY OF MONTHLY VARIATIONS IN D.O. B.O.D. AND (O.D. PARAMETERS OF DALIMB DAM, DALIMB DIST, OSMAN BAR

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ABSTRACT

In the present investigation the study was conducted determine the monthly variation in dissolved oxygen, biological oxygen demand and chemical oxygen parameters of Dalimb dam water at three sampling stations namely station A stations station C during January to December 2011. The maximum do values were reconst winter and minimum in summer, similarly the biological oxygen demand and chest oxygen demand values were observed more during monsoon than winter and summers. Key words :-Dalimb dam, Dissolved Oxygen, Biological Oxygen demand, chemical first demand.

INTRODUCTION

Water quality any water body is measured in terms of parameters like de-Oxygen, Biological Oxygen demand and chemical Oxygen demand. Dissolved Oxygen important parameters which can used as an index of water quality, primary products pollution. Biological resistant substances in water. Higher values of chemical demand indicate higher nucrobial activity similar findings were reported by Durgapal (1993)

MATERIALS AND METHODS

Sampling sites: Three sampling sites namely station 'A' (Center of Dam) Near filtration plant) and station C (opposite station A) where selected and sauce collected at an interval of one month for 1 years, i.e. January to December 2011 receives polluted water from various sources.

Sample Analysis: Water samples were analyzed with the help winklersIdomatia the laboratory for dissolvsed oxygen and biological oxygen demand, similar oxygen demand was measured by using Dichromate digestion method collected in dark bottles, incubated at 200c for five days.

RESULT AND DISCUSSION

Dissolved Oxygen (DO): in the present investigation the dissolved and ranged from 4.0-8.8 mg/lit maximum dissolved oxygen was noted in winter was recorded and is summer months. Similar findings were observed by trans-Mishra and Yadav (1978) Adebsi (1981) and Mitra (1982)

BIOLOGICAL OXYGEN DEMAND (BOD)

Biological oxygen demand is an indicator parameter which indicates biological matter in the water and express degree of contamination. investigation the range of biological oxygen demand was 4.5-25.7 mg/fit oxygen demand values were found more during Manson and low in winds lesser quality of solids and microbial population similar trends were also observed et.al (1990) and Patki (2002)

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BCAL OXYGEN DEMAND (COD)

Chemical oxygen demand test determines the oxygen required for chemical smile of organic matter with the help of strong chemical oxidant, in the present station values ranged for 5.4-55.8 mg/lit during the year 2011 c(January to seer) maximum values of (OD were noted in morsoon may be due to inflow of dead matter and minimum values are fund in winter may be due to settlement and miceffect, kudesi et al (1986) also observed similar trends.

CNo.1 Monthly mean value of dissolved oxygen (mg/lit) of water samples at various sing stations during the monitoring period Jan to Dec. 2011.

Sr.	Month	Station A	Station B	Station C
Mag	January	7.8	6.9	5.7
202	February	7.1	5.0	5.9
施治 :	March	7.9	6.8	6.4
4.	April	5.4	5.2	4.6
E195	May	5.2	5.4	4.6
6.	June	5.1	5	4.8
27.	July	6.5	5.6	5.2
8.	August	7.2	6.6	5.8
\$ 59.	September	7.8	7.7	5.7
20.	October	8.5	8	7.8
E 11.	November	8.2	8.1	7.7
12.	December	8.7	8.4	8.2

while − 2: monthly mean value of Biological oxygen Demand (mg/lit.) of water at various stations during the monitoring period Jan to Dec. 2011

Sc	Month	Station A	Station B	Station C
St. 1.	January	4.5	6	9.8
2.	February	5.9	6.4	13.4
3.	March	6.8	7.2	15.8
4.	April	5.1	7	13.8
5.	May	5.2	7.7	13.5
6.	June	8.4	8.9	23.2
12 - 7	July	11.7	13.4	25.7
8.	August	12.4	13.2	23.8
9.	September	9.2	11.6	17.6
10.	October	4.8	10.4	13.4
7 11.	November	4.6	9.4	11.2
9. 10. 11. 12.	December	4.8	8.8	10.3

Table - 3: Monthly mean value of chemical oxygen Demand (mg/lit) of water sample at various sampling stations during monitoring period. Jan.2011 to Dec.2011

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Sr.	Month	Station A	Station B	Station C
20:1	January	5.4	11.4	21.2
- 2.	February	40.2	17.7	29.7
3.	March	11	21	31.9
4	April	10.7	19.8	36.8
5.	May	12.7	25.8	40.9
6.	June	15.9	29.7	53.4
7.	July	25.7	33.4	55.8
8.	August	21.2	31.1	53.2
9.	September	11.4	30.7	50.4
10.	October	8.2	21.2	31.2
11.	November	7.8	15.8	30.8
12.	December	6.7	11.7	21.9

CONCLUSION

The present study concludes that the Dalimb Dam water was not polluted, all result within permissible limits when compared with WHO. The water of the dam is goo drinking after normal processing. Similarly the water can also be world for purpo irrigation as well as for aquaculture.

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