

Assessment of Diurnal Water Quality and Sport Fishing difference between Siswan Dam and Sukhna Lake during Winter Season

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Abstract—Siswan Dam and Sukhna Lake both are manmade stagnant water bodies situated in the range of Shivalik Hills at different geographical area like Village Siswan, S.A.S Nagar Punjab and north east region of Chandigarh respectively. We collected water sample from distinct sites of Siswan Dam and Sukhna Lake for water quality assessment during last week of October and first week of November 2018 (Morning, Afternoon and evening). Besides this, Sukhna Lake is very attractive place for tourists as compare to Siswan Dam. Sukhna Lake is very famous for recreational activities like boating, sightseeing, food plaza, traditional boat race, canoe polo, canoe marathons and sport fishing also. On the other side, Siswan Dam has less tourism and mostly voyagers visit over there during their journey to Shimla. Dam comes under irrigation department of Punjab and lake comes under Department of Animal husbandry and Fisheries Sector Chandigarh UT and Forest Department respectively. On the other hand, Lake also declared as a national wetland of India via Govt. of India and Department of Animal husbandry and Fisheries Sector Chandigarh UT also providing daily fishing licenses on different terms and conditions but there is no sport fishing and boating club except a Café Black Hole Siswan is situated in front of the entrance of Dam from Road side. During water sampling we analysed different water quality parameters like D.O, pH, Air Temperature, water temperature, alkalinity and water color from both sites. There was huge difference between water quality of Siswan dam and Sukhna Lake. We observed that Sukhna Lake water pH 8.4 was alkaline as compare to Siswan Dam pH 7.7 and not only pH there was huge difference in other water quality parameters also like water color and D.O respectively. According to Current conditions Sukhna Lake has a huge scope of fisheries and sport fishing as compare to Siswan Dam.

Keywords: Siswan Dam, Sukhna Lake, Spot Fishing and Water Quality Parameters.