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EVALUATION OF WATER POLLUTION AND ITS IMPACT ON DRY BED GROWN CROP OF THE GAṄGA AND YAMUNA RIVER IN ALLAHABAD

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ABSTRACT: Pollution level of Ganga and Yamuna river in Allahabad city and bio-accumulation of heavy metals in river bed grown cucurbit fruit was studied. Three sites of Ganga namely Gattupur, Malaka and Phaphamau and Yamuna namely Dandi, Baluaghat and Gaughat were selected for study. River water of Phaphamau and Gaughat sites were found to be more pollute than Malaka and Baluaghat water of Ganga and Yamuna river respectively. Similarly watered river bed soils of respective sites were also found polluted. Further it was seen that Ganga river was more polluted with heavy metals than Yamuna river. Heavy metals (Zn, Cu, Fe) bio-accumulation in cucurbit fruit was found to be more in Phaphamau and Gaughat than in Gattupur and Dani site of Ganga and Yamuna river respectively whereas Ni and Pb were not detected in any site of the fruit samples.

Key Words: Bio-accumulation, heavy metals, cucurbit fruits, pollution.