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Patil, S.S. ^a ⊠, Dhulap, V.P. ^a , Kaushik, G. ^b ^a Department of Environmental Sciences, Dr. Ba 431004, India	○ abasaheb Ambedkar Marathwada University Aurangabad, Maharashtra,	*		
^b Department of Civil Engineering, MGM's Jawaharlal Nehru Engineering College, N-6 CIDCO, Aurangabad, Maharashtra, India			PlumX Metrics Usage, Captures, Mentions, Social Media and Citations	
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India is facing acute shortage of clean water for drinking and other purposes. Most of the water resources are polluted by discharge of domestic sewage. The municipal sewage systems used in developed countries are often too expensive to build and operate thus low-cost; low-tech alternatives for treating wastes are needed. An alternative is to use natural or artificial wetlands to dispose of wastes. In this research constructed wetland with water hyacinth plant has been tried			Cited by 1 document	
to reduce the pollutant load of sewage. It is found that the system is capable of removing pollutants and the hydrophyte has shown its ability to survive in high concentration of nutrients with significant nutrient removal. In all the sets of dilution of wastewater, DO (dissolved oxygen) levels increased after treatment. In 100% sewage dilution BOD (biological oxygen demand) was observed to be 230 mg/L which decreased to 120 mg/L. Reduction of metals was noticed in all treatments with reduction in Co, Cu and Fe were found to be78.78%, 28.90% and 23.42% respectively. The results obtained from analysis of treated wastewater indicated that the treated water can be useful for agriculture, washing, gardening, planting or any other purposes.			Wetlands for wastewater treatment Castillo-Valenzuela, J. , Martinez-Guerra, E. , Gude, V.G. (2017) Water Environment Research View details of this citation	
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☐ 11	Moreno, D., Pedrocchi, C., Comín, F.A., García, M., Cabezas, A. Creating wetlands for the improvement of water quality and landscape restoration in semi-arid zones degraded by intensive agricultural use (2007) Ecological Engineering, 30 (2 SPEC. ISS.), pp. 103-111. Cited 53 times. doi: 10.1016/j.ecoleng.2006.07.001 View at Publisher
☐ 12	Shivanand, Y.A. Municipal sewage treatment using reed bed (2008) <i>Pollution Research</i> , 27 (3), pp. 501-502.
□ 13	Mitsch, W.J., Tejada, J., Nahlik, A., Kohlmann, B., Bernal, B., Hernández, C.E. Tropical wetlands for climate change research, water quality management and conservation education on a university campus in Costa Rica (2008) <i>Ecological Engineering</i> , 34 (4), pp. 276-288. Cited 32 times. doi: 10.1016/j.ecoleng.2008.07.012 View at Publisher
□ 14	Dhote, S., Dixit, S. (2007) <i>Asian J. Exp. Sci</i> , 21, pp. 427-430. Cited 6 times.
□ 15	Kumari, M., Tripathi, B.D. Effect of aeration and mixed culture of Eichhornia crassipes and Salvinia natans on removal of wastewater pollutants (2014) Ecological Engineering, 62, pp. 48-53. Cited 25 times. doi: 10.1016/j.ecoleng.2013.10.007 View at Publisher
□ 16	Olukanni, D.O., Kokumo, K.O. (2013) <i>Am. J. Eng. Res</i> , 2, pp. 450-454. Cited 8 times.
□ 17	Maine, M.A., Suñe, N., Hadad, H., Sánchez, G., Bonetto, C. Nutrient and metal removal in a constructed wetland for wastewater treatment from a metallurgic industry (2006) Ecological Engineering, 26 (4), pp. 341-347. Cited 115 times. doi: 10.1016/j.ecoleng.2005.12.004 View at Publisher
□ 18	Skinner, K., Wright, N., Porter-Goff, E. Mercury uptake and accumulation by four species of aquatic plants (2007) Environmental Pollution, 145 (1), pp. 234-237. Cited 128 times. doi: 10.1016/j.envpol.2006.03.017 View at Publisher
□ 19	(2005) Washington, DC
□ 20	Kanabkaew, T., Puetpaiboon, U., Songklanakarin, J. (2004) <i>Sci. Technol</i> , 26, pp. 749-756. Cited 14 times.

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