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(51) International classification	:H04L0029060000, G06T0011200000, A01G0025160000, H04Q0009000000, H04W0004021000	(71) <b>Name of Applicant :</b> <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
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(57) Abstract :

A system and a method are provided for managing an environmental flow requirement for a predefined physical area. The method includes receiving a first set of data packets indicative of rainfall gauge data and a second set of data packets indicative of a rainfall data associated with the predefined physical area. A Standardized Precipitation Index (SPI) is determined based on the received first set of data packets and the second set of data packets. A third set of data packets indicative of a flow meter and a fourth set of data packets indicative of a flow data associated with the predefined physical area are received. A Flow duration curve (FDC) is determined based on the received third set of data packets and the fourth set of data packets. A correlation between the determined SPI and the FDC is calculated to manage the environmental flow requirement for the predefined physical area.

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