In this talk we discuss the existence and uniqueness of the almost periodic solution of some system of stochastic semi-linear difference equations with bounded random delay of the form:

\[ X(n + 1) = A(n)X(n) + f(n, X(n - \tau)), X(n - \tau + 1), \ldots, X(n - 1), X(n), \]

\( n \in \mathbb{Z}_+ \), by means of exponential dichotomy. Some applications will be discussed. (Received September 26, 2017)