Let $G$ be a finite group and $X$ be a $G$-space. In a recent paper, Huan constructed the quasi-elliptic cohomology theory. This is a variant of Tate K-theory assigning a $\mathbb{Z}[q^\pm]$-module $QEll(X//G)$ to the orbifold $X//G$. In this talk, given a 3-cocycle $\alpha$, we present a construction of an $\alpha$-twisted version of $QEll$. Furthermore, we also discuss the construction of a twisted Chern character map from the latter object to an $\alpha$-twisted version of Devoto’s $G$-equivariant elliptic cohomology, which appeared in a recent paper of Berwick-Evans. In the future, we expect to use these constructions to define twisted power operations in quasi-elliptic cohomology, and to compare them to operations in Devoto’s theory. (Received September 16, 2019)