Let $G$ be a group and $C$ be a set of abelian subgroups of $G$ which form a cover of $G$. Let $M_0(G)$ be the nearring of zero-preserving functions from $G$ into $G$. Let $R(C)$ be the set of functions in $M_0(G)$ which are linear maps of each subgroup in $C$ into itself. $R(C)$ is always a ring. We discuss which covers yield rings having certain properties; e.g., simple, maximal in $M_0(G)$, minimal in $M_0(G)$. (Received June 22, 2007)