1096-VJ-976 **Jung Wook Lim*** (jwlim@knu.ac.kr), Department of Mathematics, Kyungpook National University, 80 Daehakro, Bukgu, Daegu, 702-701, South Korea. *Noetherian properties on generalized power series rings.*

Let $D \subseteq E$ be an extension of commutative rings with identity, I be a nonzero proper ideal of D, $(\Gamma, \leq)$ be a strictly totally ordered monoid such that $0 \leq \alpha$ for all $\alpha \in \Gamma$ and $\Gamma^* = \Gamma \setminus \{0\}$. Let $D + [\![E^{\Gamma^*,\leq}]\!] = \{f \in [\![E^{\Gamma,\leq}]\!] \mid f(0) \in D\}$ and $D + [\![I^{\Gamma^*,\leq}]\!] = \{f \in [\![D^{\Gamma,\leq}]\!] \mid$ the coefficients of nonconstant terms of f belong to $I\}$. In this talk, we give some conditions for the rings $D + [\![E^{\Gamma^*,\leq}]\!]$ and $D + [\![I^{\Gamma^*,\leq}]\!]$ to be Noetherian or to satisfy the ascending chain condition on principal ideals. (Received September 11, 2013)