Under some assumptions, the author transfers some properties established in the case of the one-dimensional affinoid algebras of rigid analytic geometry to the extended Robba rings of $p$-adic Hodge theory. These rings enjoy some nice properties, such as being regular and excellent.

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MSC:
13F35  Witt vectors and related rings
12J25  Non-Archimedean valued fields
13F40  Excellent rings

Keywords:
Fargues-Fontaine curve; Robba rings; $p$-adic Hodge theory; excellent rings

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