Here is a paper on deep photometry of H&Chi Persei down to Vmag=23.5:

https://iopscience.iop.org/article/10.1088/0067-0049/186/2/191

THE STELLAR POPULATION OF h AND  $\chi$  PERSEI: CLUSTER PROPERTIES, MEMBERSHIP, AND THE INTRINSIC COLORS AND TEMPERATURES OF STARS

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