This church built to serve the Barbourne district to the north of the City and originally in the ancient parish of Claines. It is a large sandstone building with a pinnacled south west tower, built in 1860-1862 to the designs of Frederick Preedy, architect, and consecrated on 21 August 1862.

The tower contains a large bell which is hung for ringing. Details are as follows:

Bell Inscription

1. (Mark or cross) IOHN (scroll border) TAYLOR (border) AND (border) C^O (border) LOUGHBOROUGH (border) MDCCCLXII. (border) / (scroll border all round) / (arabesque border all round)

Bell	Founder and date	Diameter	Note	Cwt.	Qrs.	Lbs.
1.	John Taylor & Co, 1862	46%	E(?)	16	2	18

The inscription is in the Victorian gothic lettering favoured by Taylors at this date (*cf* Madresfield). The bell has angular canons set hexagonally on the crown. It has not been quarter turned.

The bell hangs in a deal frame provided by John Taylor & Co in 1862 (*Bellframes* type 6.A), and the fittings are also contemporary with the bell. The fittings include a wooden stocks, hoop or continuous gudgeons, plain bearings, traditional wheel and traditional stay and slider. Although hung to be swung it is now only sounded by an external hammer.

The bundle of bills for the erection of the church in the parish records includes Taylors' bill to Mr. Gutch for the bell, dated 4 July 1862.

To bell for Barbourne New Church weight 16-2-18 @ £7/7s	£122.9.1½.
Clapper for Do. As per estimate	£1.5.0.
Hangings for Do.	£9.0.0.
Rope for Do	10s.
Fir Frame for Do	£6.0.0.
Carriage & fixing Do	£4.10.0.
	[total] £143 14 1½

Endorsed "I certify this acct to be correct, Fredk. Preedy, archt, July 18 1862"

The *clock* was provided by Joyce of Whitchurch in 1882. A later Joyce catalogue of c. 1892 lists a clock supplied to "St.Stephen's, Barbourne, Worcester, with four dials".