For 0 boundary conditions at the edges, every Ny-th value at both the off-diagonals will be 0 to represent the boundary node (not included in x)

$$x = \begin{pmatrix} T(x_1, y_1) \\ \vdots \\ T(x_1, y_{N_y}) \\ T(x_2, y_1) \\ T(x_2, y_2) \\ \vdots \\ T(x_{N_x}, y_{N_y}) \end{pmatrix}; b = \begin{pmatrix} -2 * \pi^2 \sin(\pi x_1) \sin(\pi y_1) \\ \vdots \\ -2 * \pi^2 \sin(\pi x_1) \sin(\pi y_{N_y}) \\ -2 * \pi^2 \sin(\pi x_2) \sin(\pi y_1) \\ -2 * \pi^2 \sin(\pi x_2) \sin(\pi y_2) \\ \vdots \\ \vdots \\ -2 * \pi^2 \sin(\pi x_{N_x}) \sin(\pi y_{N_y}) \end{pmatrix}$$