$$\Omega = \begin{bmatrix} \begin{bmatrix} \tilde{\eta} & \rho\tilde{\eta} & \rho^2\tilde{\eta} \\ \rho\tilde{\eta} & \tilde{\eta} & \rho\tilde{\eta} \\ \rho^2\tilde{\eta} & \rho\tilde{\eta} & \tilde{\eta} \end{bmatrix} & \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} & \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} \\ \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} & \begin{bmatrix} \tilde{\eta} & \rho\tilde{\eta} & \rho^2\tilde{\eta} \\ \rho\tilde{\eta} & \tilde{\eta} & \rho\tilde{\eta} \\ \rho^2\tilde{\eta} & \rho\tilde{\eta} & \tilde{\eta} \end{bmatrix} & \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} \\ \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} & \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} & \begin{bmatrix} \tilde{\eta} & \rho\tilde{\eta} & \rho^2\tilde{\eta} \\ \rho\tilde{\eta} & \tilde{\eta} & \rho\tilde{\eta} \\ \rho^2\tilde{\eta} & \rho\tilde{\eta} & \tilde{\eta} \end{bmatrix} \end{bmatrix}$$