In quantum mechanical calculation of the transport phenomena, the major problem is the evaluation of the phase shifts. The formulae for the cross-section in Bose-Einstein statistics and in Fermi-Dirac statistics which are needed in the calculation of the transport co-efficient, are given in terms of phase shifts. The purpose of this research work is to obtain the expression for phase shifts for HCB Model. The phase shifts is the solution of the radial wave equation. The expression for the radial wave equation of a HCB Model co-ordinate system has been described first and expressed for the pair intermolecular potential specified in terms of the support function $h(x)$ and surface-to-surface co-ordinate representation. The phase shifts have been calculated for many values of the quantum number for the orientation along major and minor axis of HCB Model.

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