Dimplekumar Navinchandra Chalishajar* (dipu17370@gmail.com), 435 Mallory Hall, Virginia Military Institute, Lexington, VA 24450. Exact Controllability of Third order Dispersion Equation.

We have investigated the controllability of third order dispersion equation/KDV equation using monotone operator theory. Then we study the weaker notion of the Lipschitz continuity called ”Method of Integral Contractor” and study the controllability of the third order dispersion equation. Examples are given to illustrate the theory. (Received September 04, 2019)