**TITLE: - SOP FOR OPERATION OF DELUGE VALVE (Applicable for Barauni Station and Hathidah T-Point).**

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| **SL. NO.** | **ACTIVITY** | **RESPONSIBILITY** |
|  | **CHARGING OF DELUGE VALVE SYSTEM:**   1. Open priming line valve for filling detection line. 2. Close priming line valve when the pressure in detection line becomes equal to that of firewater header.   Open suction valve of Deluge Valve. By-pass line valve shall remain closed and deluge valve discharge valve shall remain open. | Shift In-Charge |
|  | **OPERATING DELUGE VALVE:**   1. Ensure suction valve and discharge valve remains open. 2. Operating Deluge valve:    1. In Manual Mode: Open emergency release valve inside Red Emergency Box near to Deluge valve.    2. In Remote Mode: Press Deluge valve operating tab shown over the Fire & Gas HMI screen in control room.    3. In auto mode: Deluge valve will actuate upon receiving detection signal from field instrument (HCD, UVIR, HD, MCP). Normally deluge valve should be kept in auto mode.   Deluge valve will actuate & water gong bell will give indication | -Do- |
|  | **SHUT OFF DELUGE VALVE:**   1. **Manual Mode** 2. Open priming valve of Deluge valve. 3. Close emergency release valve inside Red Emergency Box. 4. Re-charge the system. 5. **Remote Mode** 6. Open priming valve of Deluge valve. 7. Issue Close command to Deluge Valve from Control Room HMI. 8. Re-charge the system. 9. **Auto Mode** 10. Bring the deluge valve to Remote mode. 11. Follow the procedure at “**b”** above.   NOTE: During deluge valve maintenance / malfunction, Open valve in By-pass line to operate water sprinkler system. | -Do- |

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| RECORDS GENERATED : | 1) | SHIFT LOGBOOK SHEET |
|  | 2) | SHIFT HANDING OVER REGISTER |
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