**TITLE: - SOP for Starting of Barauni LPG Pumping station**

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| **SL. NO.** | **ACTIVITY** | **RESPONSIBILITY** |
| 1 | Intermediate pumping stations are to be started as per advice of CD PARADIP. | Shift Incharge |
| 2 | Ensure that all drain valves, vents etc. are properly closed and any equipment etc. under maintenance are properly isolated before station is lined up for starting. | -Do- |
| 3 | Ensure all field push buttons of equipment’s are released. If required, air venting of strainers and mainline pumps (MP-1, MP2, MP3) shall be carried out. | -Do- |
| 4 | Check Lube Oil in bearing housing of pump (MP-1, MP2, MP3) and glycol level in level gauge in seal plan API 52 (both DE & NDE side) and top up if required. | -Do- |
| 5 | Ensure power supply is available to all motors and MOVs. | -Do- |
| 6 | Prepare Mainline pumps (MP1, MP2, MP3 for starting. (Refer SOP/OPN/01) It may require priming of pump. | -Do- |
| 7 | Inform all stations prior to starting. | -Do- |
| 8 | Check if ‘Emergency shutdown’ is not pressed. | -Do- |
| 9 | **Important: Pump start command is given only if sufficient suction pressure is available. i.e. more than 11.6 kg/cm2.** | -Do- |
| 10 | After verifying sufficient pressure is available to mainline pump, start the mainline pump (s) (As per MLPU starting procedure PHBMPL/OPN/SOP/26) and increase the speed as per requirement. | -Do- |
| 11 | Delivery station(MUZAFFARPUR/MOTIHARI) to start the delivery immediately after starting of mainline pump by station(DURGAPUR/BARAUNI). Starting the delivery before starting the Pump station(DURGAPUR/BARAUNI), especially in LPG pipeline must be avoided to prevent generation of dual phase LPG in Pipeline. Therefore, in order to smooth and safe start-up, close coordination between pumping station( DURGAPUR/BARAUNI) and Delivery station (MUZAFFARPUR/MOTIHARI) would be very important | -Do- |
| 12 | Ensure discharge pressure is not more than MAOP (101 Kg/Cm2) and all operating parameters are normal. | -Do- |
| 13 | Once the operation has stabilized, hourly parameters to be noted down as mentioned in Logbook Sheet. | -Do- |
| 14 | Downstream stations (MUZAFFARPUR/MOTIHARI) are informed about start up of the mainline pumps and subsequent receipt of LPG at their end. | -Do- |
| 15 | All communications and events to be logged in the log book. | -Do- |

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