**TITLE: - SOP for Mainline Integrity test under Barauni Jurisdiction**

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| **SL. NO.** | **ACTIVITY** | **RESPONSIBILITY** |
| 1 | Central dispatch shall make the shutdown plan in coordination with RHQ/S&D and intimate to concerned department well in advance. | Shift In charge |
| 2 | Mainline integrity to be carried out once in a year by taking shutdown of pipeline/individual section. Work permit to be ensured prior to commencement of integrity tests of mainline as per OISD-105. | -Do- |
| 3 | Take shutdown of pipeline/section by raising the pressure to 75 % of Maximum shutdown pressure of pipeline section in the preceding 12 months. | -Do- |
| 4 | Close station outlet & inlet valve of respective stations .Isolate all SV/RCP valves of the respective section planned for integrity test. | -Do- |
| 5 | Allow the pipeline for stabilization for minimum 4 hours after closing all RCPs MOV and respective station valves. | -Do- |
| 6 | Upon stabilization of mainline pressure, open all SV/RCPs MOV and re-pressurization of mainline is to be carried out slowly up to 90% of Maximum shutdown pressure. Then again close all SV/RCPs MOV. | -Do- |
| 7 | Start recording the following pressure readings on hourly basis for 24 hours after line stabilization   1. Station Inlet and outlet pressure 2. All SV/RCPs pressure | -Do- |
| 8 | Record the temperature at locations (wherever TT is available) on hourly basis for 24 hours after line stabilization | -Do- |
| 9 | ROW shall be inspected for any leakage in vulnerable locations like valves, river crossing, road and railway crossings etc. | -Do- |
| 10 | In case of abnormal pressure drop, pipeline sectionalization may be initiated to identity leakage section. |  |
| 11 | In case of any suspected leakage, action to be taken immediately as per DMP (Disaster Management Plan). |  |
| 12 | On completion of the integrity test for 24 hours, data to be analyzed with recorded pressure, temperature, product in pipeline and Station wise report to be generated indicating the following:   * Period * Location * Pressure and temperature readings * Analysis of pressure trend w.r.t. change in temperature   Observations and Conclusion |  |
| 13 | Once the Mainline integrity test is over, open all SV/RCPs MOV and line up the respective stations for resumption of pumping. |  |

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