

Sample loading system

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| 20. | Sample Holding Mechanism | : | Hydraulic system |
| 21. | Hydraulic system capacity | : | 50tone capacity |
| 22. | No of cylinder | : | bottom and top -2 cylinders |
| 23. | Hydraulic system operation | : | Automatic movement |
| 24. | System type | : | “H” type MS steel construction |
| 25. | Construction | : | 25 mm thickness MS heavy construction. |
| 26. | Inner size of the apparatus | : | 250mm x 250mm |
| 27. | Outer size of the apparatus | : | 400mm x 700mm |
| 28. | Sample holding mechanism | : | Flexible sample size is acceptable. Bottom ram is housed with special quality flexible gasket and above which the sample is loaded and upper ram with similar flexible gasket will be fixed at the top. The top of the vassal will be tighten with necessary available special bolt mechanism to hold the pressure. |

Pressure sensor

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| 29. | Pressure sensor | : | High quality pressure transducer will be available |
| 30. | Pressure indicator | : | Digital Indicator with max load freezing |
| 31. | Computerization | : | Software, PC and other automation will be provided on separate order and not included here. However Necessary ports are available to get the data's. |
| 32. | Work Table Construction | : | High quality fabrication of M.S. Body and M. S. Angle's structure with proper stiffeners and neat powder coat painting |
| 33. | Calibration | : | Calibration for pressure sensor and indicator will be provided. |

Design and construction of new apparatus for generation and stabilization of experiments with hydrocarbon liquids. Foam Nanoparticles are to be supplied

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| 34. | Design and construction of chamber | : | According to the suitable requirements |
| 34. | Foam Nanoparticles | : | PEG-coated nanoparticles and dichlorodimethylsilane grafted silica nanoparticles for their ability to stabilize CO2 in water foam and characterize the viscosity and quality of the generated foam, with particular emphasis on the ability to stabilize viscous, very high quality foam to minimize water use |