

Comment 1. Name of equipment-Advanced Potentiometric Auto Titrator with following specifications (For analysis of Mercaptan Sulfur in petroleum products and other titrations like acid base, non-aqueous redox and precipitation. Please confirm if accessories/spares/consumables should be quoted for all applications mentioned above? We need to know the following to make our competitive Quotation/Bill of Material. Number and capacity of burette assemblies and Electrodes for respective measurement

Reply 1: The Instrument should be Advanced Potentiometric Automatic Titrator should be capable for analysis of low level of Mercaptan Sulfur in petroleum products and instrument should be capable of performing other titrations like acid-base, non-aqueous, redox and precipitation for which electrodes, burette and other accessories may be procured as and when required.

Burette Volume: 50 ml - One quantity with specifications shown below as mentioned in the specifications:

1. Burette resolution: 1 micro liter or better. Burette assembly to support titrant AgNO₃.
2. Equipped with burette auto fill and auto emptying facility with single command
3. Equipped with the auto read and write facility and also to detect burette volume to store all relevant information related with burette
4. Burette dead volume should be zero after flushing
5. System should have provision for nitrogen flushing in titration flask
6. Electrode should be sensitive and capable of measuring low level of mercaptans - 2 Nos with auto calibration facility of the sensors.
7. Spares and Accessories for three years for the Advanced Potentiometric Automatic titrator for analysis of mercaptan sulfur should be provided.

Comment 2. About multiple titrations (three or more)... Please note that provision to perform multiple titration is available but with additional accessories like dosing units, electrode stands etc. So please confirm if additional accessories for multiple titrations are to be quoted now or the same can be left for later up gradation? If you wish to get the quote now then please be specific about number of burettes/dosing units/stirrers/electrodes etc., so that all bidders quote the same configuration.

Reply 2: Currently instrument should be supplied to perform single titration for mercaptan sulfur but it should also have the provision for carrying out multiple titrations (three or more) simultaneously. For conducting simultaneous analysis accessories may be procured as and when required.

In addition, the system should be integrated with a suitable PC with software as indicated in the specifications.