Name of the Laboratory: Energy Technology Laboratory

Lab code: CHD – 317

Name of the Apparatus:

1. Cloud and pour point apparatus
2. Smoke point apparatus
3. Aniline point apparatus
4. Redwood viscometer (multiple) apparatus
5. Dean and Stark apparatus for moisture of lubricating oil
6. Reid vapour pressure test apparatus
7. Carbon residue apparatus (Ramsbottom)
8. Melting point apparatus
9. Drop point of grease apparatus
10. Abels flash point apparatus
11. Penetrometer apparatus
12. Softening point apparatus
13. Bomb calorimeter

Name of the experiments:

1. Determination of cloud and pour point of given oil sample
2. Determination of smoke point of petroleum product
3. Determination of aniline point of given oil sample
4. Determination of viscosity of a petroleum product using Redwood viscometer
5. Determination of moisture of lubricating oil using Dean and Stark apparatus
6. Determination of vapor pressure by Reid apparatus
7. Determination of carbon residue by Ramsbottom apparatus
8. Determination of melting point of given solid sample
9. Determination of drop point of grease
10. Determination of flash point using Abels flash point apparatus
11. Determination of rate of penetration in a sample using Penetrometer
12. Determination of softening point of grease
13. Determination of specific heat capacity of given solid or liquid by Bomb Calorimeter