## **Directions for use :**

- 1. Rinse screw caped Glass tube 2-3 times with distilled water and add 13 drops of Reagent COD-1L.
- 2. Now add 1 ml of water sample with the help of syringe (or pipette), into the above glass tube.
- 3. Take Reagent COD-2 in a plastic tube upto the 2ml mark and transfer it to the above sample solution tube. Close the cap tightly. Mix well by swirling (use of safety goggles and hand gloves is recommended)
- 4. Take approximately 20-30 ml of paraffin oil in a 100 ml glass beaker. Heat it on a hot plate till temperature of oil rises upto 150°C (Use thermometer)
- 5. Now immerse the above screw caped glass tube into the hot paraffin oil.
- 6. Maintain the paraffin oil temperature between  $140^{\circ}C 150^{\circ}\overline{C}$  and digest the sample for minimum 2 hours.

p.t.o.

## **Chemical Oxygen Demand (COD)** AQUA-XL Code: XL-316 Water Analysing Kits Range: 20 - 400 & 100 - 2,000 ppm as COD 7. After 2 hours digestion, take the glass tube out and place it in a test tube stand. Let it cool slowly. 8. When the solution attains room temperature, remove cap and add 1 drop of Reagent COD-3. Mix well and start adding COD-4L counting the number of drops while mixing until the colour changes from BLUSIH GREEN to REDISH BROWN (say X drops). 9. Carry out Blank Titration using 1 ml distilled water in a 10 ml glass jar. (Omit step Nos. 4,5,6 & 7). Note down the number of drops of COD-4L required to get colour change from BLUISH GREEN to REDISH BROWN. (say Y drops)

Calculations : COD ppm

 $= (Y-X) \times 20.$ 

# If the expected COD of the test sample is more than 400 ppm, then take 2 ml of the sample in a 10 ml glass jar and dilute it upto 10 ml mark with distilled water. Mix well and use 1 ml of the above diluted sample and follow Direction for use. Multiply the result obtained by 5.

Caution : Reagent COD 2 is highly Acidic. Handle carefully and avoid contact with skin.

## Directions for use :

- 1. Rinse screw caped Glass tube 2-3 times with distilled water and add 13 drops of Reagent COD-1.
- 2. Now add 1 ml of water sample with the help of syringe (or pipette), into the above glass tube.
- 3. Take Reagent COD-2 in a plastic tube upto the 2 ml mark and transfer it to the above sample solution tube. Close the cap tightly. Mix well by swirling (use of safety goggles and hand gloves is recommended)
- 4. Take approximately 20-30 ml of paraffin oil in a 100 ml glass beaker. Heat it on a hot plate till temperature of oil rises upto 150°C (Use thermometer)
- 5. Now immerse the above screw caped glass tube into the hot paraffin oil.
- 6. Maintain the paraffin oil temperature between  $140^{\circ}C 150^{\circ}C$  and digest the sample for minimum 2 hours.

PTO

Chemical Oxygen Demand (COD) Code : XL-306 Range : 40 - 800 & 200 - 4,000 ppm as COD		AQUA-XL Water Analysing Kits
7.	After 2 hours digestion, take the glass tube out and place it cool slowly.	it in a test tube stand. Let
8. 9.	Reagent COD-3. Mix well and start adding COD-4 counting the number of drops while mixing <b>until the colour changes from BLUSIH GREEN to REDISH BROWN</b> (say X drops).	
	step Nos. 4,5,6 & 7). Note down the number of drops of COD-4 required to get colour change from BLUISH GREEN to REDISH BROWN. (say Y drops)	
Calculations :		
$COD ppm = (Y-X) \times 40.$		
#	If the expected COD of the test sample is more than 80 the sample in a 10 ml glass jar and dilute it upto 10 ml Mix well and use 1 ml of the above diluted sample and <b>Multiply the result obtained by 5.</b>	mark with distilled water.

Caution : Reagent COD 2 is highly Acidic. Handle carefully and avoid contact with skin.