Draw an Ellipse in Concentric Circle method with major and minor axis 200mm and 120mm

To Change Units – from Inch to mm.

Type a Command -Units

Change – Precision -say 0.0 and Units to scale as Millimeter

Command -Limits

Left end Corner – 0.0, 0.0 – Enter

Upper Right Corner- Change to 420, 297- Enter

Command – Zoom

Select - All

Make ORTHO- on and OSNAP – select All

Command- Line (or choose Line from the Draw area of the Command)

Draw horizontal line – key in 200. Enter, Enter.

Draw Vertical line from the center of the horizontal line- 60 up, 60 down.

Go to Circle in the Draw area and choose Center and Radius.

Draw 2 Circles with the same center – one for 60 radius and another for 100 radius to make Concentric circles.

Select Polar Array in Modify area. Select object (here it is the larger diameter line). Right click to confirm. Then go to center and click to make the Arrays through Center of the circle.

No of items- by default is 6 in Polar Array

Change it to 12 and click. The Concentric Circles will get divided with 12 Arrays with 30\* apart.

Name the intersection with the perimeter of the concentric circles as 1,1!, then 2,2!and so on.

Draw horizontal line from 1 and vertical line from 1! to intersect at P1. Similarly for P2.. P3 will be on the inner circle top. Similarly P9.

On the other hand P6 and P12 will be on the outer circle.

Use Command Spline.

Join P12 with P1 , P2 , P3 , and up to P6 . You get Top half of the Ellipse.

Go to Mirror command.

Select the upper half of the Ellipse as object. Right click to confirm. Select 1st point of the Mirror line (P12 ) and then the second (P6).

Complete Ellipse in Concentric Circle will be formed.