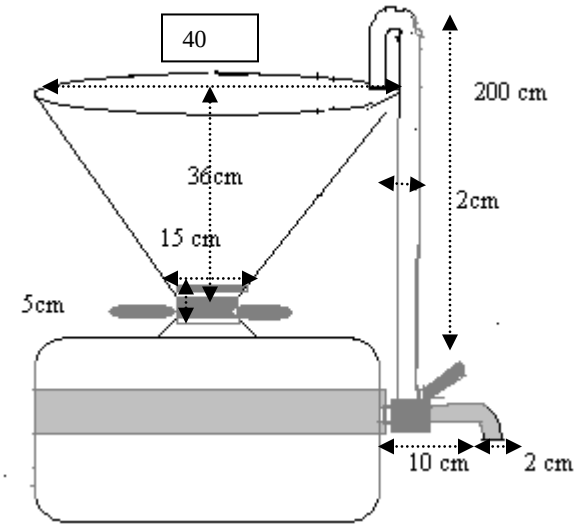
**SURFACE AREA CALCULATION SHEET (COLLOIDAL MILL)**

**Colloidal Mill**




**SURFACE AREA OF COLLOIDAL MILL:**

Surface Area of Hopper

Surface Area= $\frac{(B1+B2)\ h}{2}$

B1=40cm B2= 15 cm Height =36 cm

= 40+15/2 X 36

= 990 $cm^2$
= **389.77 $inch^2$**

Surface Area of Pipe

Length = 200 cm
Diameter = 2 cm

Surface Area = (2 x π x r x h) + (2 x π x $r^2$)

= (2 x 3.14 x 1 x 200) + (2 x 3.14 x1 x1)

= 1256+ 6.28 = 1262.28 $cm^2$

= **496.97 $inch^2$**

Surface Area of Tap

Length = 10 cm

**SURFACE AREA CALCULATION SHEET (COLLOIDAL MILL)**

Diameter = 2 cm

Surface Area = $(2 \times \pi \times r \times h) + (2 \times \pi \times r^2)$

= $(2 \times 3.14 \times 1 \times 10) + (2 \times 3.14 \times 1 \times 1)$

= $62.8 + 6.28 = 69.08\ cm^2$

= $27.19\ inch^2$

Total Area of Colloidal Mill = 389.77 + 496.97 + 27.19 = **913.93 $inch^2$**