OBSERVATIONS :-

S. No	Distance (D)	Diffraction onder (n)	Radius of dark ving (92n)	Particle 3ize (2a)
Unit	m		m	m
1	111	1	1.5	5.6614 × 10-6
		2	3.4	4.9953× 10-6
2	13	1	1.6	6.2726×10 ⁻⁶
		2	3.7	5.4249 × 10-6
3	15	1	1.9	6.0948×10-6
		2	3.8	6.0948×10-6
		Mean	5.7 × 10-6 Hm	

Calculation:

$$2a = \frac{1.22 \times 1 \times 6328 \times 10^{-10} \times 11 \times 10^{-2}}{1.5 \times 10^{-2}} = \frac{5.6614 \times 10^{-6}}{1.5 \times 10^{-2}}$$

$$20 \cdot 1.22 \times 2 \times 6328 \times 10^{-10} \times 11 \times 10^{-2} = 4.9953 \times 10^{-6}$$

3. When
$$D = 15$$
; $91n = 1.9.3.8$; $n = 1.2$
 $2a = 6.0948 \times 10^{-6}$; $2a = 6.0948 \times 10^{-6}$