Parameter (with Formula)	Chennai	Pune	Gurugram
Daily Production (Production Volume / 365)	**Given:** *Production Volume (2027) = 50,000 cars* **Calculation:** 50,000 ÷ 365 = **137 cars/day**	Same as Chennai: **137 cars/day**	Same as Chennai: **137 cars/day**
Safety Stock (Daily Sales × Days in Safety Stock)	**Calculation:** 137 × 10 = **1370 cars**	**Calculation:** 137 × 10 = **1370 cars**	**Calculation:** 137 × 10 = **1370 cars**
Cycle Inventory (Quantity Consumed per Replenished Cycle ÷ 2)	**Given:** *Replenishment 2 times in 15 days* Cycle = 15 ÷ 2 = 7.5 days (137 ÷ 7.5) ÷ 2 = **514 cars**	**Given:** *Replenishment 3 times in 30 days* Cycle = 30 ÷ 3 = 10 days 1370 ÷ 2 = **685 cars**	**Given:** *Replenishment every 5 days* Cycle = 137 × 5 = 685 cars 685 ÷ 2 = **342.5 cars**
Average Inventory (Cycle Inventory + Safety Stock)	**Calculation:** 514 + 1370 = **1884 cars**	**Calculation:** 685 + 1370 = **2055 cars**	**Calculation:** 342.5 + 1370 = **1712.5 cars**
Inventory Cost (Total Cars × Material Cost, then Holding Cost)	*Material Cost: 420K INR* *Holding Cost: 12%* Inventory Value = 1884 × 420K = 791,280,000 INR Annual Cost = 94,953,600 INR Cost per Car = **Rs 1900**	*Material Cost: 430K INR* *Holding Cost: 15%* Inventory Value = 2055 × 430K = 883,650,000 INR Annual Cost = 132,547,500 INR Cost per Car = **Rs 2651**	*Material Cost: 470K INR* *Holding Cost: 10%* Inventory Value = 1712.5 × 470K = 804,875,000 INR Annual Cost = 80,487,500 INR Cost per Car = **Rs 1610**