



Glove Box

In charge: Dr. K. Balamurugan

TECHNICAL SPECIFICATIONS		
1.	Equipment Name	Glove box System
2.	Number of Chamber	Single chamber
3.	Design	Modular design
4.	Inside dimensions	1200 (W)X 900 (H) X 750 mm(D)
5.	Shell Construction	SS Steel
6.	Interior finish	Brushed, Anti corrosive coating and scratch resistant.
7.	Exterior finish	Powder coated
8.	Stand	Powder coated, leveling feet & Castors
9.	Electrical feed	DN 40
10.	Electrical Outlet	Six position powerstrips

11.	Electrical Feed Through	One number
12.	Gas Feed Through	Three Blank
13.	Shelves	Three Shelves, height adjustable, SS 304(non-corrosive in chemical like sulfur environment)
14.	Glove ports	220 mm diameter, chemical resistant, polyoxymethylene
15.	Gloves	Thick butyl rubber of 0.3-0.4 mm thickness
16.	Window	Chemical resistant and inclined panel of 9-10mm thickness
17.	Lightning	Internally mounted
18.	Gas Purification system	Full system installed with glove box with necessary gas
19.	Moisture sensor	High sensitivity with digital display (0-100%)
20.	Humidity sensor	High sensitivity with digital display (0-100%)
21.	Antechamber	Two numbers (made of MS with brushed interior finish, each with separate doors operated manually having spindle locks) (I) Cylindrical shape, 350 mm (ID)X450mm(L) [Big enough to transport a weighing micro-balance) (II) Cylindrical shape, 150 mm (ID)X150mm(L) (III) Gas Lines with dual control valves will be given for purging purposes.
22.	Vacuum System	(i) Vacuum Pump: High speed rotary vacuum pump (ii) Pumping capacity:200liters/m (iii) Vacuum level: Rough Vacuum (iv) Vacuum gauge: Digital gauge
23.	Working Gas	(i) Argon gas full size cylinder (ii) Ar-gas regulator indicating pressure of both cylinder pressure and line outlet (iii) Connecting piping: 304 Stainless steel (iv) Main chamber (box) pressure control: Foot switch for increasing and decreasing pressure.