

MITSUBA'S SCOPE OF SUPPLY FOR
PIPE COATING
CONSISTS OF

- 1. AUTOMATIC POWDER SPRAY GUNS**
- 2. POWDER COATING BOOTH CUM FILTER CARTRIDGE RECOVERY UNIT**
- 3. BULK POWDER MANAGEMENT SYSTEM**

AUTOMATIC POWDER SPRAY SYSTEM
SCOPE OF SUPPLY

✓ Master Control Panel (Rack Cabinet with Air Distribution Panel and Interlocking Panel, monitoring system will be provided to exactly determine the functioning of each panel.	___ Nos.
✓ Individual gun control panels with smart tracker.	___ Nos.
✓ 100 KV integrated High Flow automatic corona guns.	___ Nos.
✓ Adaptor to convert High Flow gun to Normal flow guns	1 No.
✓ Powder Pumps	___ Nos.
✓ 100 Kg powder feed hopper (Master hopper)	1 Set.

PNEUMATIC DATA

Maximum input pressure	7 bar
Optimum input pressure	6 bar
Maximum water vapour content in compressed air	1.3 g/Nm ³
Maximum oil vapour content in compressed air	0.1 ppm
Maximum Compressed air consumption	17m ³ /hr per gun = 221 m ³ /hr

ELECTRICAL DATA

Single phase AC current, selectable voltages	220V or 230/110V
Frequency	50 / 60 Hz.
Connected loads	65VA per gun = 780VA
Safety class	IP 54 (P43)
Temperature Range	- 2 °C to 50 °C
Nominal Input Voltage	10 V eff.
Output Voltage	100 KVDC -ve
Nominal Output Current	100 micro amps.

POWDER SPRAY BOOTH CUM FILTER CARTRIDGE RECOVERY UNIT
FOR PIPE COATING
SCOPE OF SUPPLY

Type	:	CYRS 16000
MAIN BOOTH BODY		
Entry & Exit for Pipe	:	___ mm round (to suit max _ mm Pipe)
Overall size	:	As per drawing.
No. of Guns	:	___
Booth Body Construction	:	Epoxy Coated Steel constructions.
Duct to Recovery Module	:	Main Duct and Hood Duct.
Special-	:	Two entry and exit removable doors of three different sizes to facilitate the coating of different sizes of the pipes will be provided at entry and exit of booth.

CARTRIDGE AFTER FILTER SECTION		
After Filter Cartridge unit construction	:	Epoxy Coated Steel construction
No. of After Filter Cartridge units	:	One
No. of Filter Cartridges per Unit	:	___ Nos.
Filter Cartridge Size	:	Dia = 330 mm x Height =1000 mm.
Filter Cartridge Material	:	Polyester Fleece material for 99.999% Powder Recovery
Filter Cartridge Cleaning	:	Automatic cartridge cleaning mechanism.

MITSUBA SYSTEMS (INDIA) LLP

Interconnection Ducts	:	Epoxy coated steel construction – Duct between Recoveries to After Filter Module and between After filter Module and Blower.
Blower with motor	:	20H.P x 1440 RPM x 1 No. Blower Exhaust duct - client's scope of supply.
Control Panel		Star Delta Starter for blower.
Electrical	:	All electrical of Siemens, L&T, ISI make.
Clear height required inside the Factory	:	As per drawing.
Special Notes	:	a) Powder will transfer to powder Siever through a magnetic separator.

FILTER MEDIA:

The Filter media is made of super fine polyester. This unique fibre composition with a smaller fibre diameter in the range of 2µm and pore diameters of 20 µm or less, means that most dust particles cannot penetrate into the depth of the material, thus eliminating blockages. The media offers a range of benefits including -

- ✓ Maximum levels of surface filtration.
- ✓ Outstanding separation behaviour.
- ✓ Extended service life.
- ✓ Much reduced pressure loss.
- ✓ Significant energy savings.

ROTATING CLEANING SYSTEMS:

Filter Cartridge Powder Recovery systems require that the filter cartridge be cleaned quickly and efficiently with our effecting the operation. Mitsuba offer state of the art rotating wing cleaning mechanism. The rotating mechanism inside the cartridge will purge the air inside the cartridge. The localized purge of the air will dislodge the powder deposited on outer surface of the cartridge. Conventional retro-jet cleaning does not clean cartridge uniformly across the length of the cartridge. The rotating mechanism will ensure uniform cleaning of cartridge across the length of cartridge. Better cleaning of the cartridge assures higher collection of powder and longer life.

CONSTRUCTION:

The entire recovery system body is fabricated out of CRCA sheets which are powder coated / epoxy coated. The system shall have a outlet point at the bottom for attaching automatic sieving system / powder transfer system to the main powder hopper.

POWDER MANAGEMENT SYSTEM
(AUTOMATIC POWDER RECIRCULATION SYSTEM WITH PROPORTIONAL FRESH
POWDER FEED SYSTEM) - SCOPE OF SUPPLY

• Re-feeder unit vibrator	1 No.
• Re-feeder unit recirculation pump	1 No.
• Mini Cyclone	1 No.
• Siever with electric vibrator	1 No.
• Stand for siever and mini cyclone	1 Set
• Control panel with sequential timing system for Automatic Powder Recirculation and proportional Powder Feed System	1 No.
• Master Powder hopper (incorporated in scope of Auto Guns)	-----
• Fresh Powder Bin – recirculation pump	1 Set.
• Complete set of Cables, Hoses & Accessories for start up.	1 Set.

PNEUMATIC DATA

Maximum input pressure	7 bar
Optimum input pressure	6 bar
Maximum water vapour content in compressed air	1.3 g/Nm ³
Maximum oil vapour content in compressed air	0.1 ppm
Maximum Compressed air consumption	26.4m ³ / hr – Approx 16 cfm

ELECTRICAL DATA

Single phase AC current, selectable voltages	220V or 230/110V
Frequency	50 / 60 Hz.
Connected loads	65VA
Safety class	IP 54 (P43)
Temperature Range	-2 °C to +50 °C