



FACTORY ACCEPTANCE TEST FOR AUTOCOATER WITH INTERCHANGEABLE DRUMS 36" & 48"



QUALITY ASSURANCE DEPARTMENT

FAT FOR AUTOCOATER WITH INTERCHANGEABLE DRUMS 36" & 48"

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FAT FOR AUTOCOATER WITH INTERCHANGEABLE DRUMS 36" & 48"

1. PRE APPROVAL SHEET:

	Name	Department	Designation	Signature	Date
Prepared by		QA			
Checked by		QA			
Approved by		QA/QC			

	Name	Department	Designation	Signature	Date
Reviewed by					
Reviewed by					
Reviewed by					
Reviewed by					
Approved by					

2. REVISION HISTORY:

S.No.	REVISION	DATE	REVISION SUMMARY



3. SYSTEM INFORMATION:

EQUIPMENT	AUTOCOATER WITH INTERCHANGEABLE DRUMS 36" & 48"
MANUFACTURER	M/s
CUSTOMER	M/s
SERIAL No.	
MODEL No.	
SITE	

4. INTRODUCTION & PURPOSE OF DOCUMENTS:

4.1 WE ARE LIFE ENGINEERS

We are an engineering solutions company working as an essential piece of massive life sciences ecosystem. By bringing together our customers, partners, industry leaders, regulators and governments we effect greater impact and bring our mission to life.

Our purpose is reflected through our strategy, approach and objectives. We consciously evaluate our performance through a broader lens for creating value – economic benefits to our customers, environmental benefits for a greener planet and social benefits to people everywhere.

4.2 LET'S SAVE LIVES TOGETHER

Our start-to-finish engineering solutions help you accelerate growth and optimize costs. With every project we take on, irrespective of size, complexity, or geography, we commit resources, people, know-how and technology to deliver a successful outcome.

Our purpose is deeply rooted in our belief that all lives have equal value. Together with our customers and partners, we're building pharmaceutical and biotech capability, so everyone, wherever they are in the world has the same access to affordable life-saving medicines.

5. **OBJECTIVE:**

- Factory acceptance test is a comprehensive document providing all the details required for design and operational point of view. It thus ensures that proposed design of the equipment is suitable for its intended purpose & provides documented evidence that quality is built into the design of the equipment.
- This documentation will define the responsibilities, acceptance criteria, basis of design, technical specifications, list of major bought out parts, utility requirements, safety and c-GMP features.
- Kindly note, this text has been prepared by The contents include detailed information & No part of it can be changed without our written approval.

6. SUMMARY:

• M/s. has received an order for the manufacture and supplies ofVide their Purchase Order.



- FAT will enable to analyze **M/s.**it is assembled and trial point of view all accessories are matching with reference Approved drawing.
- The team from M/s.will jointly ensure execution, review and approval of protocol.

7. VERIFICATION:

- Factory Acceptance Test (FAT), undergo complete checkup of **M/s.** from document verification through DQ, fitment through assembly and trial through utility mentioned in compliance with Approved GA drawing & P & ID.
- M/s. assures M/s.that the machine is manufactured and tested as per URS and PO.
- M/s. assures M/s.by undergoing the above said document verification in DQ. Approved GA Drawing, Electrical Drawing, fitment and trial through this Factory Acceptance Test (FAT), will ensure M/s.that they are being given what they have offered in Offer Specification (OS) & Purchase Order (PO).

8. **RESPONSIBILITIES:**

Specific requirements regarding testing of this equipment are:

8.1 MANUFACTURER'S:

- Preparation of the FAT protocol.
- Approval for release of this protocol to **M/s.** For acceptance

8.2 CLIENT'S:

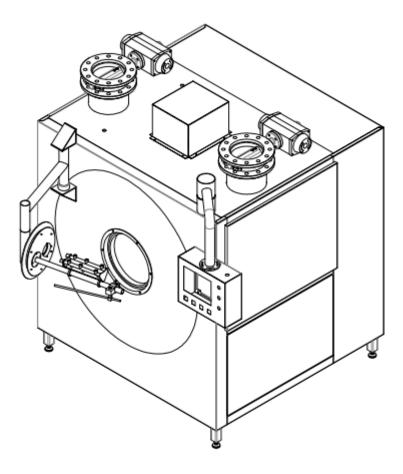
- Supervising and reporting all FAT checks with respect to the M/s.
- Approval of the Protocol prior to commencement of the work.
- Final completed report approval.





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9. SCHEMATIC DIAGRAM:



(SCHEMATIC DIAGRAM FOR M/s.)

10. SYSTEM DESCRIPTION:

- Design is cGMP Current Good Manufacturing Practices compliance.
- All contact parts AISI 316 & non-contact parts AISI 304.
- Fully automatic film coating process by PLC Controls with HMI Touch screen.
- Flexible batch operations.
- Complete separation of production and technical area
- The machine structure made from S.S.304 quality fitted with Closed Drive, Perforated Pan, Washing sink, Inlet air plenum, Exhaust air plenum with Airtight door.
- Perforated pan with 50% opening for better quality finish.
- Excellent mixing and tumbling by special design of removable on each sloping face of the pan and anti-sliding baffles provided on perforated diagonal face.
- Perforated Pan having variable speed through AC frequency Drive.



- Automatic Spraying systems provided with Atomized Spray Gun, Adjustable spray gun arms, High precise flow peristaltic pump, solution holding tank with pneumatic stirrer.
- Front Entry stainless steel arm, with facility to adjust the angle of spray guns is provided.
- Inlet air and outlet air will be controlled by pneumatic operated damper which is provided on top of the machine and at inlet and outlet duck.
- Inlet air and Exhaust air flow controls through AC Frequency drive of both blower.
- Inlet Air handling unit made from stainless steel 304 quality. The Inlet air handling units fitted with Pre filter-EU4 and sandwich of HEPA-EU13 and Fine filters-EU7, Inlet air blower with motor, Electric heater.
- Advance PLC Controls system with HMI- color Touch screen provided of Mitsubishi make for complete automatic coating process and batch data receipt management.



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11. SYSTEM VERIFICATION:

11.1 PHYSICAL VERIFICATION:

METHOD	DESCRIPTION	ACCEPTANCE CRITERIA	OBSERVATION
Internal Surface finish Verification	Check internal surface of machine	-Mirror finish -Curved corner	Yes 🗌 No 🗌
External Surface finish Verification	Check outer surface of machine	-Matt finish -Curved corner	Yes 🗌 No 🗌
Document Verification	Verification of Wiring diagram	-As per wiring diagram attached in Documentation file.	Yes 🗌 No 🗌
Document Verification	Verification of Input / Output connection	-As per Input/ Output List are Mention in PLC FDS.	Yes 🗌 No 🗌
Document Verification	Verification of MOC certificate	-Verification of MOC Contact and Non-Contact parts as per test certificate.	Yes 🗌 No 🗌
Machine Dimension	Verification with machine	As per attached GA drawing in Documentation file.	Yes 🗌 No 🗌





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11.2 DRAWING VERIFICATION

Following documents are required for execution of the FAT protocol: -

	S.No.	DOCUMENTS	REFERENCE No.	CHECK (YES/NO)
	1.	Approved G.A Drawing		Yes 🗌 No 🗌
ĺ	2.	Electrical Drawing		Yes 🗌 No 🗌
	3.	P & ID Drawing		Yes 🗌 No 🗌

Comments:

Reviewed By: _____



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11.3 ELECTRICAL COMPONENTS VERIFICATION:

Verification

Major Components in GA Drawing to be covered in Component List Any discrepancies and deviations are to be noted in deviations report.

Compliance

Major components mentioned below should comply in accordance with the approved GA Drawing.

HMI		
Make	Mitsubishi	
Model No.	GT2507-WTBD	
Serial No.		
Quantity	01 No.	
Location	At operating panel	
Verification	Yes D	No 🗆
Remark		
PLC		
Make	Mitsubishi	
Model No.	FX5U-32MT/ESS	
Serial No.		
Quantity	01 No.	
Location	Inside the control panel	
Verification	Yes D	No 🗆
Remark		
VFD FOR PAN N	AOTOR	
Make	Mitsubishi	
Model No.	FR-D740-080-E16	
Serial No.		
Quantity	01 No.	
Location	Inside the control panel	
Verification	Yes 🗆	No 🗆
Remark		
VFD FOR INLET	F BLOWER	
Make	Mitsubishi	
Model No.	FR-D740-080-E16	
Serial No.	•••••	
Quantity	01 No.	
Location	Inside the control panel	
Verification	Yes □	No 🗆
Remark		
VFD FOR EXHA	UST BLOWER	
Make	Mitsubishi	
Model No.	FR-E740-170-E16	
Serial No.		
Quantity	01 No.	
Location	Inside the control panel	
Verification	Yes 🗆	No 🗆
Remark		



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11.4 PNEUMATIC COMPONENTS VERIFICATION:

MAGNEHELIC PRESSURE GAUGE			
Make	Dwyer		
Range	0-250 Pascal		
Quantity	01 No. (For chamber pressure)		
Location	At structure		
Verification	Yes D No D		
Remark			
AIR FILTER REGUL	ATOR		
Make	Festo		
Model	MS6-LFR- ¹ / ₂ -D7-E-R-M-AS		
Quantity	01 No.		
Location	Pneumatic Panel		
Verification	Yes No		
Remark			
PRESSURE REGULA	TOR		
Make	Festo		
Model	LR-D-MINI		
Location	Pneumatic Panel& at structure		
Quantity	03 Nos.		
Verification	Yes □ No □		
Remark			
PRESSURE SWITCH	PRESSURE SWITCH		
Make	Festo		
Model	SPAN-P10R-R18M-PN-PN-L1		
Quantity	05 Nos.		
Location	Operating Panel& structure		
Verification	Yes No		
Remark			

11.5 BOUGHT OUT COMPONENTS VERIFICATION

PAN MOTOR			
Make	Hindustan		
Serial No.			
Description	FLP		
Voltage	415±10% V		
HP	5		
Speed	1440 RPM		
Quantity	01 No.		
Location	Table Housing		
Verification	Yes 🗆	No 🗆	
Remark			
GEAR BOX			
Make	Bonfiglioli		
Туре	VF 185 A P112 B5		
Serial No.			



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Ratio	100:1
Quantity	01 No.
Location	Table Housing
Verification	Yes 🗆 No 🗆
Remark	
PNEUMATIC BUTTI	ERFLY VALVE ON/OFF TYPE
Make	Aira
Serial No.	INLET , EXHAUST –
Size	10"
Quantity	02 Nos.
Location	At Inlet and exhaust Duct
Verification	Yes 🗆 No 🗆
Remark	
RH SENSOR	
Make	Radix
Serial No.	
Туре	NONFLP
Description	0-100 % Rh
Quantity	01 No.
Location	Inlet Duct
Verification	Yes D No D
Remark	

TEMPERATURE SEI	TEMPERATURE SENSOR			
Make	Radix			
Serial No.	INLET , EXHAUST			
Туре	NONFLP			
Range	0-150°C			
Description	PT 100 3 wire			
Quantity	02 No's.			
Location	Inlet duct & Exhaust duct			
Verification	Yes No			
Remark				
PRODUCT SENSOR	PRODUCT SENSOR			
Make	Radix			
Туре	NONFLP			
Description	0-100°C			
Quantity	01 No.			
Location	Inside the pan			
Verification	Yes No			
Remark				
LAMP				
Make	Banner			
Model No.	WLS27CW850DSQ			
Quantity	01 No.			
Location	Top side of the chamber			
Verification	Yes D No D			





Remark				
SPRAY GUN				
Make	Spraying System			
Description	For Film Coating			
Orifice	1.0 mm			
Quantity	04 Nos.			
Location	Spray Gun header			
Verification	Yes 🗆	No 🗆		
Remark				
PNEUMATIC OPERA	PNEUMATIC OPERATED BALL VALVE			
Make	Aira			
Serial No				
Size	1"			
Quantity	02 Nos.			

Location	WIP line		
Verification	Yes 🗆	No 🗆	
Remark			
PNEUMATIC OF	PERATED BALL VALVE		
Make	Aira		
Serial No			
Size	2"		
Quantity	01 No.		
Location	At drain line		
Verification	Yes □	No 🗆	
Remark			
PNEUMATIC OF	PERATEDDIAPHRAGM VALVE		
Make	Aira		
Serial No			
Size	11/2"		
Quantity	02 Nos.		
Location	At drain line		
Verification	Yes □	No 🗆	
Remark			
ANGLE VALVE			
Make	Ebroo		
Serial No			
Size	1"		
Quantity	01 No.		
Location	WIP line		
Verification	Yes □	No 🗆	
Remark			
INLET AHU			
Make	Damcon		
Capacity	2000CFM		
Quantity	01 No.		
Location	Service floor		



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Verification	Yes 🗆	No 🗆
Remark		
INLET BLOWER	MOTOR	
Make	Hindustan electric motor	
Serial No.		
Voltage	415±10% V	
Description	NFLP	
HP	3	
Speed	2870 RPM	
Quantity	01 No.	
Location	Inside AHU	
Verification	Yes D	No 🗆
Remark		
INLET BLOWER		
Make	Hari uydog	
Capacity	2000 CFM	
Job No.	122/3	
Static pressure	5"	
Quantity	01 No.	
Location	At Inlet AHU	
Verification	Yes 🗆	No 🗆
Remark		
EXHAUST BLOW	YER MOTOR	
Make	Hindustan electric motor	
Serial No.		
Voltage	415±10% V	
Description	NFLP	
HP	10	
Speed	2925 RPM	
Quantity	01 No.	
Verification	Yes 🗆	No 🗆
Remark		
EXHAUST BLOW	TER	
Make	Universal Air Technologies	
Capacity	2500 CFM	
Static pressure	12"	
Quantity	01 No.	
Location	At scrubber unit	
Verification	Yes D	No 🗆
Remark		
STEAM COIL	1	
Make	Damcon	
Size	20" x 27.5" x 6 ROW	
Quantity	06 Nos.	
Location	Inside AHU	
Verification	Yes 🗆	No 🗆





Remark		
PRE FILTER		
Make	Fine Airsys	
Serial No.	·····	
Description	10 micron	
Quantity	01 No.	
Location	Inside AHU	
Verification	Yes 🗆	No 🗆
Remark		
FINE FILTER		
Make	Fine Airsys	
Serial No.		
Description	3 micron	
Quantity	01 No.	
Location	Inside AHU	
Verification	Yes □	No 🗆
Remark		
HEPA FILTER		
Make	Fine Airsys	
Serial No.		
Description	0.3 micron	
Quantity	01 No.	
Location	Inside AHU	
Verification	Yes 🗆	No 🗆
Remark		
PROXY SENSOR		
Make	Pepperl+Fuchs	
Description	NBB4-12GM50-E2	
Quantity	01 No.	
Location	At Pan drive	
Verification	Yes 🗆	No 🗆
Remark		
SPRAY BALL	_	
Make	All spray	
Model no		
Quantity	Rotational 07 nos., Fix Type -04 nos	
Location	Inside pan chamber	
Verification	Yes 🗆	No 🗆
Remark		



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PERISTALTIC PUM	P
Make	Flowtech
Model No.	NAS-02-04
Serial No.	
Туре	NONFLP
Quantity	01 No.
Location	At structure
Verification	Yes D No D
Remark	
SAMPLER BLOWER	R MOTOR
Make	Hindustan electric motor
Serial No.	
Voltage	415±10% V
Description	NFLP
HP	1.5
Speed	2845RPM
Quantity	01 No.
Location	Inside structure
Verification	Yes D No D
Remark	
RECIRCULATION P	PUMP (WIP)
Make	CNP
Serial No.	
Voltage	415±10% V
HP	1.5
Speed	2900 RPM
Quantity	01 No.
Location	Inside structure
Verification	Yes D No D
Remark	
SOLUTION TANK	
Make	Fablife
MOC	SS 316
Capacity	50 L
Quantity	01 No.
Location	Near pan chamber
Verification	Yes No No
Remark	



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PNEUMATIC STIR	RER				
Make	PMT				
Description	Pneumatically operated				
-	01 No.				
Quantity Location	At solution tank				
Verification	Yes D No D				
Remark SCRUBBER					
Make	Universal Air Technologies				
	Universal Air Technologies				
Type	Wet Scrubber (Venturi type)				
Capacity	2500 CFM				
Quantity	01 No.				
Location	Service Floor				
Verification	Yes No No				
Remark					
	RCULATION PUMP				
Make	Hindustan electric Motors				
Serial No.					
HP	1				
Voltage/Frequency	415/50Hz				
Quantity	02 No's.				
Location	On scrubber				
Verification	Yes □ No □				
Remark					
	PUMP – 1 & RECIRCULATION PUMP – 2				
Make	Leakless				
Model No.	LCP 20				
Serial No.					
Quantity	02 No's.				
Quantity Location	02 No's. On scrubber				
Quantity Location Verification	02 No's.				
Quantity Location Verification Remark	02 No's. On scrubber Yes □ No □				
Quantity Location Verification Remark pH SENSOR WITH	02 No's. On scrubber Yes □ No □ TRANSMITTER				
Quantity Location Verification Remark pH SENSOR WITH Make	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster				
Quantity Location Verification Remark pH SENSOR WITH Make Range	02 No's. On scrubber Yes □ No □ TRANSMITTER				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No Quantity	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph 01 No.				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No Quantity Location	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph 01 No. On scrubber				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No Quantity Location Verification	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph 01 No.				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No Quantity Location Verification Remark	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph 01 No. On scrubber Yes □ No □				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No Quantity Location Verification Remark PRESSURE SWITC	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph 01 No. On scrubber Yes □ No □				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No Quantity Location Verification Remark PRESSURE SWITC Make	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph 01 No. On scrubber Yes □ No □				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No Quantity Location Verification Remark PRESSURE SWITC Make Model No	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph 01 No. On scrubber Yes □ No □				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No Quantity Location Verification Remark PRESSURE SWITC Make Model No Quantity	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph 01 No. On scrubber Yes □ No □ 2 Mathematical Structure 01 No. On scrubber Yes □ No □ CH Danfoss KP-35 01 No.				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No Quantity Location Verification Remark PRESSURE SWITC Make Model No Quantity Location	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph 01 No. On scrubber Yes □ No □				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No Quantity Location Verification Remark PRESSURE SWITC Make Model No Quantity Location Verification	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph 01 No. On scrubber Yes □ No □ 2 Mathematical Structure 01 No. On scrubber Yes □ No □ CH Danfoss KP-35 01 No.				
Quantity Location Verification Remark pH SENSOR WITH Make Range Serial No Quantity Location Verification Remark PRESSURE SWITC Make Model No Quantity Location	02 No's. On scrubber Yes □ No □ TRANSMITTER Aster 0-14 ph 01 No. On scrubber Yes □ No □				



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PRESSURE GAUGE		
Make	Fiebig	
Serial No.	0-2.1kg/cm ²	
Quantity	01 No.	
Location	On scrubber	
Verification	Yes D No D	
Remark		

Comments:

Reviewed By: _____



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12. MATERIAL OF CONSTRUCTION CERTIFICATE VERIFICATION:

S.No.	COMPONENTS	SPECIFIED	MOC REPORT No.	COMPLIES(YES/NO)
1.	Coating pan cabinet	SS 316L, 3 mm thick sheet		
2.	Structure cladding	SS 304, 3 mm thick sheet		

Comments:

Reviewed By: _____



13. TEST VERIFICATIONS:

13.1 EQUIPMENT DIMENSION VERIFICATION

Verification

Refer the approved drawing and compare with the actual dimensions on the equipment. Re-check whether the drawing clearly specifies the manufacturing standards adopted.

Compliance

Deviations in the measured dimensions, if any, should be within acceptable limits.

DRAWING No.:		REV:	
S.No.	DESCRIPTION	DIMENSION OBSERVED	COMPLIES (YES/NO)
1.	Overall Dimension		

Comments:		

Reviewed By: _____

Signature & Date: _____

14. FUNCTIONAL KEY VERIFICATIONOF AUTOCOATER:

S.No.	FUNCTION	VERIFICATION	COMPLIES (YES/NO)
1.	Inlet blower working	Check the performance of blower	
2.	Exhaust blower working	Check the performance of blower	
3.	Inlet and Exhaust Valve Operation	Check pneumatic operation On/OFF	
4.	Product temperature sensor	Product temperature sensor working	
5.	Inlet & exhaust temperature sensors working	Check the working of temperature sensor	
6.	Spray gun working	Check the Spray gun working	
7.	Alarms & interlocks	Verify the alarm & interlock as per PLC FDS	



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14.1 FUNCTIONAL VERIFICATION OF AUTOCOATER:

S.No. DESCRIPTION		No DESCRIPTION NO			CURRENT (AMP)		
S.No.	DESCRIPTION	LOAD	R	Y	В	(RPM)	
1.	Pan motor	N.A.					
2.	Inlet blower motor	N.A.					
3.	Exhaust blower motor	N.A.					

14.2 AUTOCOATER PAN SPEED VERIFICATION

S.No.	FUNCTION	VERIFICATION	COMPLIES (Y/N)
1.	Pan speed	Pan max speed 15 RPM	

14.3 FUNCTIONAL VERIFICATION OF SOLUTION TANK 50 L:

FUNCTION	WORKING (SATISFACTORY/ NOT SATISFACTORY)
Solution tank working	

Comments:

Reviewed By: _____



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14.4 SAFETY VERIFICATION:

S.No.	SAFETY FEATURE	Complies(Yes/No)
1.	After pressing emergency stop button machine operation should be stopped	

Comments:

Reviewed By: _____

Signature & Date: _____

15. EQUIPMENTFINISH VERIFICATION:

15.1 AUTO COATER 36"& 48"

Description of	Finish Required as per DQ Protocol.		Finish Achieved as per DQ Protocol		Pass/Fail
Item	Area	Finish	Area	Finish	
Main hady	Internal	RA≤0.4µm	Mirror		
Main body	External	RA≤0.6µm	Matt		
Coating Dan26"	Internal	RA≤0.4µm	Mirror		
Coating Pan36"	External	RA≤0.4µm	Mirror		
Casting Dan 49"	Internal	RA≤0.4µm	Mirror		
Coating Pan 48"	External	RA≤0.4µm	Mirror		

Comments:

Reviewed By: _____



16. WATER DRAINABILITY TEST:

For cleaning verification;

- Put water inside the chamber (where the work is actually going to process)
- Ensure that there is no resistance/obstruction from the test point to drain port.
- Ensure that no water remains inside the chamber.

ACTION	DRAINABILITY (SATISFACTORY/ NOT SATISFACTORY)
Put water inside the chamber	

Comments:

Reviewed By: _____

Signature & Date: _____

17. POST-APPROVAL SHEET:

S.No.	ACCEPTANCE CRITERIA	REMARKS (YES/NO)	
1.	Visual Inspection and Fitment check carried out and found satisfactory.	Yes 🗌 No 🗌	
2.	MOC & Bought Out Item Verified and found satisfactory.	Yes 🗌 No 🗌	
3.	Deviations (If any) compiled and M/scan be dispatched.	Yes 🗌 No 🗌	

Comments:

M/s					
	Name	Department	Designation	Signature	Date
Reviewed by					
Reviewed by					
Approved by					



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FAT FOR AUTOCOATER WITH INTERCHANGEABLE DRUMS 36" & 48"

18. ABBREVIATIONS:

ABBREVIATIONS	FULL FORM
AISI	American Iron & Steel Institute
CFM	Cubic Feet Per Minute
cGMP	Current Good Manufacturing Practices
DQ	Design Qualification
FAT	Factory Acceptance test
FLP	Flame Proof
FS	Full Scale
GA	General Assembly
GEP	Good Engineering Practices
HMI	Human Machine Interface
MCB	Miniature Circuit Breaker
MOC	Material of Construction
NFLP	Non Flame Proof
OQ	Operational Qualification
P & ID	Process & Instrumentation Diagram
PLC	Programmable Logic Controller
RH	Relative Humidity
SS	Stainless Steel
VFD	Variable Frequency Drive