



FACTORY ACCEPTANCE TEST FOR MULTI MILL

Department: Quality Assurance	FAT No.:
Title: Factory Acceptance Test for Multimill	Effective Date:
Supersedes: Nil	Review Date:

TABLE OF CONTENTS

S.No.	Contents	Page No.
1.	Objective	2
2.	Scope	2
3.	Responsibility	2
4.	Verification of Technical Specification	3
5.	Verification of Motor	4
6.	Verification of Material of Construction Certificate	4
7.	Verification of Test / Calibration Certificate	5
8.	Verification of Inter Locks	5
9.	Verification of Operation	6
10.	Verification of Surface Finish	7
11.	Machine Trail Sheet	8
12.	Suggestions/Modifications	8
13.	FAT Closed Out	9



FACTORY ACCEPTANCE TEST FOR MULTI MILL

Department: Quality Assurance	FAT No.:
Title: Factory Acceptance Test for Multimill	Effective Date:
Supersedes: Nil	Review Date:

1. OBJECTIVE:

1.1 The objective of this protocol is to confirm that the machine Multi Mill manufactured by, at their Works in is in line with the specifications as desired by the customer.

2. SCOPE:

- 2.1 The scope of this protocol is limited to the Factory Acceptance Test of Multi Mill.
- 2.2 The testing of the support utilities does not come in the scope of this protocol.
- 2.3 Any auxiliary equipment supporting this machine, required along with the machine, for its effective overall performance shall not be tested in this protocol. Any such auxiliary equipment, if present, shall be tested separately.

3. RESPONSIBILITIES:

3.1 MANUFACTURER (M/s.)

- 3.1.1 The manufacturer is responsible for the preparation of the FAT protocol, unless and until, it is specified by the Customer for its indigenous protocol.
- 3.1.2 The manufacturer shall assist the customer in performing the Factory Acceptance Test at the manufacturer's factory, until and unless, it is specified by the customer to conduct the **PROXY-FAT**.

3.2 CUSTOMER (.....)

- 3.2.1 The Customer shall conduct the Factory Acceptance Test at the manufacturer's factory.
- 3.2.2 In case the customer wants the manufacturer to conduct the **PROXY-FAT**, a written communication, as an ANNEXURE, shall be attached along with this protocol

Note: Please Check the below

FAT BY THE CUSTOMER	
PROXY-FAT BY THE MANUFACTURER	



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

FACTORY ACCEPTANCE TEST FOR MULTI MILL

Department: Quality Assurance	FAT No.:
Title: Factory Acceptance Test for Multimill	Effective Date:
Supersedes: Nil	Review Date:

4. VERIFICATION OF TECHNICAL SPECIFICATION:

S.No.	Parameter	Specifications	Observation	Remarks
1.	Electric Motor	Make: Crompton 3 HP/ 2.25kW/ 3 Phase / 50 Hz. / 1400 rpm Frame: 100L, FLP Sr. No:		
2.	Forward-Reverse switch	Make: JENSON		
3.	Starter	Make: BCH, 3 HP Type: Shakti		
4.	Belt Drive	Belt Make: Fanner Size: B -58		
5.	Blade	12 Nos. Knife & Impact edge 2 Nos. scraper blade		
6.	Sieve size	Dia. 260 mm X 140 mm H		
7.	Rotor Speed	750/1500/2100/3000		
8.	Machine dimension	990 x 870 x 1680 H		

5. VERIFICATION OF MOTOR SPECIFICATION:

S.No.	Type of Motor	Parameter				Observation	Remarks
		A	HP	kW	V		
1.	Motor	4.5	3	2.25	415		

6. VERIFICATION OF MATERIAL OF CONSTRUCTION CERTIFICATES:

S.No.	Component	MOC	Observation	Remarks
1.	Charging Hopper	SS 316		
2.	Blade	SS 316		
3.	Rotor	S.S.316		
4.	Rotor Shaft	S.S.316		
5.	Blade Pin	SS 316		
6.	Sieve	SS 316		
7.	Sieve bottom plate	S.S.316		
8.	Hopper	S.S.316		
9.	Machine frame	S.S.304		
10.	Motor Cover	S.S.304		
11.	Rubber Seal	Silicon.		



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

FACTORY ACCEPTANCE TEST FOR MULTI MILL

Department: Quality Assurance	FAT No.:
Title: Factory Acceptance Test for Multimill	Effective Date:
Supersedes: Nil	Review Date:

7. VERIFICATION OF TEST/CALIBRATION CERTIFICATES:

S.No.	Component	Type	Observation	Remarks
1.	Motor	Test Certificate		
2.	Digital RPM Indicator	Test Certificate		

8. VERIFICATION OF INTERLOCKS (IF ANY):

S.No.	Interlock Message	Justification	Observation	Remarks
1.				

9. VERIFICATION OF OPERATIONS:

S.No.	Type of Operation	Mode of Simulation	Observation	Remarks
1.	Powder charge in hopper	By manually		
2.	Start the motor and milling the powder for size reduction. The equal and less size of powder passed through sieve and received at bottom discharge nozzle	ON – OFF PUSH Button.		
3.	Checked the forward and reverse direction of the rotor blade by using forward –reverse switch.	By Foreword- reverse switch		
4.	Checked the rotor- blade speed by using step pulley	By belt position change on step pulley		
5.	Checked fitting of the sieve.	By Manually interchange sieve.		



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

FACTORY ACCEPTANCE TEST FOR MULTI MILL

Department: Quality Assurance	FAT No.:
Title: Factory Acceptance Test for Multimill	Effective Date:
Supersedes: Nil	Review Date:

10. VERIFICATION OF SURFACE FINISH:

S.No.	Component	Surface Finish-Mirror/ Matt	Observation	Remarks
1.	Charging Hopper	Mirror		
2.	Blade	Mirror		
3.	Rotor	Mirror		
4.	Rotor Shaft	Mirror		
5.	Sieve	Mirror		
6.	Sieve bottom plate	Mirror		
7.	Hopper	Mirror		
8.	Machine frame	Matt		
9.	Motor Cover	Matt		



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

FACTORY ACCEPTANCE TEST FOR MULTI MILL

Department: Quality Assurance	FAT No.:
Title: Factory Acceptance Test for Multimill	Effective Date:
Supersedes: Nil	Review Date:

11. MACHINE TRIAL SHEET

DRY RUN TEST

S.No.	Check Points	Observation	Remarks
1.	Machine start -stop		
2.	Rotor direction forward – reverse		
3.	Speed change		
4.	Sieve interchangeable		
5.	Rotor run smoothness & noiseless		

WET RUN TEST

ACTUAL PRODUCT

DUMMY PRODUCT

S.No.	Parameter	Specification			
1.	Name of the Product				
2.	Type of granulation			DRY	WET
3.	Property	Corrosive	Non-Corrosive	Abrasive	Non-Abrasive
4.	Color				
5.	Sieve size				
6.	Speed - RPM				



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

FACTORY ACCEPTANCE TEST FOR MULTI MILL

Department: Quality Assurance	FAT No.:
Title: Factory Acceptance Test for Multimill	Effective Date:
Supersedes: Nil	Review Date:

12. SUGGESTIONS / MODIFICATIONS:

COMMENTS FROM THE CUSTOMER	MANUFACTURER'S ACCEPTANCE



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

FACTORY ACCEPTANCE TEST FOR MULTI MILL

Department: Quality Assurance	FAT No.:
Title: Factory Acceptance Test for Multimill	Effective Date:
Supersedes: Nil	Review Date:

13. FAT CLOSEOUT:

- The Factory Acceptance Test for Multi Mill Unit, stands completed.
- All the parameters have been checked and found in line with the requirement of M/s.
- The machine is cleared, by the undersigned authority of M/s. for dispatch to their plant at.....
- For M/s.

Name	Designation	Department	Signature

For M/s.

Name	Designation	Department	Signature
		Production	
		Design	
		Marketing	