

MACHINE

PROTOCOL No.:

S.No.	ITEM DESCRIPTION	PAGE No.
1.0	PROTOCOL APPROVAL	2
2.0	OVERVIEW	3
2.1	Objective	3
2.2	Purpose	3
2.3	Scope	3
2.4	Responsibility	3-4
2.5	Execution Team	5
3.0	ACCEPTANCE CRITERIA	6
4.0	REVALIDATION CRITERIA	6
5.0	OPERATIONAL QUALIFICATION PROCEDURE	7
5.1	Equipment Description	7-9
5.2	Instruction for Filling the Checklist	10
5.3	Test Instrument Details	11
5.4	Verification of Calibrated component	12
5.5	Verification of functional checks	13-29
5.6	Verification of supporting utilities	29
5.7	Verification of safety feature	30
5.8	Verification of Standard Operating Procedure	31
5.9	Training Record Of Personnel (S)	31
5.10	List of Annexures	32
5.11	Deficiency And Corrective Action(s) Report(s)	33
5.12	Abbreviations	34
6. 0	OPERATIONAL QUALIFICATION FINAL REPORT	35
6.1	Summary	36
6.2	Conclusion	36
6.3	Final report approval	37



PRC	\T/	\mathbf{C}	\mathbf{OI}	No
IM	,,,	ノし	UL	INU.

1.0 PROTOCOL APPROVAL:

Signing of this approval page of Protocol indicates agreement with the qualification approach described in this document. If modification to the qualification approach becomes necessary, an addendum shall be prepared and approved. The protocol cannot be used for execution unless approved by the following authorities.

This Operation Qualification protocol of Double Head Tube Filling Machine has been reviewed and approved by the following persons

			T		
FUNCTION	NAME	DESIGNATION	DEPARTMENT	SIGNATURE	DATE
PREPARED			QUALITY		
BY			ASSURANCE		
			QUALITY		
			ASSURANCE		
REVIEWED BY			ENGINEERING		
			PRODUCTION		
			HEAD		
APPROVED			OPERATION		
BY			QUALITY		
			ASSURANCE		

2.0 OVERVIEW:



MACHINE

PROTOCOL No.:

2.1 OBJECTIVE:

The objective of developing and executing this protocol is to collect sufficient data pertaining to the Double Head Tube Filling Machine and define the qualification requirements and acceptance criteria for the machine and to prove that each operation proceeds as per design specification and the tolerances prescribed there in the document.

2.2 PURPOSE:

The purpose of this protocol is to establish documentary evidence to ensure that the Double Head Tube Filling Machine received matches the Design specification and also to ensure that it is properly and safely installed.

2.3 SCOPE:

Once the operational qualification of Double Head Tube Filling Machine has been completed successfully, the equipment shall be preceded for the performance qualification procedure.

2.4 **RESPONSIBILITY:**

In accordance with protocol, following functions shall be responsible for the qualification of system.

Execution Team (Comprising members from Production, Engineering and Quality Assurance) and their responsibilities are following:

- > Prepares the qualification protocol.
- > Ensures that the protocol is in compliance with current policies and procedures on system Qualification.
- ➤ Distributes the finalized protocol for review and approval signatures.
- > Execution of Qualification protocol.
- Review of protocol, the completed qualification data package, and the final report.
- The operational checks, calibration, SOP verification, verification of safety features, verification of utility supply shall be carried out by engineering persons and production person.



PROTOCOL No.:

> The production operator / supervisor shall carry out the cleaning and operation of machine.

Head – Production/ Engineering:

- > Review of protocol, the completed qualification data package, and the final report.
- Assist in the resolution of validation deficiencies.

Head – Operation and Quality Assurance:

> Review and approval of protocol, the completed qualification data package, and the final report.



PR()TC	COI	No.

2.5 EXECUTION TEAM:

The satisfactory operation of the Double Head Tube Filling Machine shall be verified by executing the qualification studies described in this protocol. The successfully executed protocol documents that the Double Head Tube Filling Machine is operational and is satisfactorily working.

Execution team is responsible for the execution of Operational of Double Head Tube Filling Machine. Execution team comprises of:

NAME	DESIGNATION	DEPARTMENT	SIGNATURE	DATE



OPERATIONAL QUALIFICATION PROTOCOL FOR

PROTOCOL No.:

DOUBLE HEAD TUBE FILLING MACHINE

- 3.1 The equipment shall be operational as per its specified operating instructions.
- 3.2 All SOPs for the equipment to be verified and checked.
- 3.3 Training is important to all the concerned personnel.
- 3.4 All the functionality of equipment components to be checked.
- 3.5 RPM of motor should be in the range of $\pm 5\%$ deviation.

4.0 REVALIDATION CRITERIA

The machine shall be revalidated if

- There are any major changes, which affect the performance of equipment.
- During preventive maintenance or break down maintenance if any major components is replaced which affects the performance of equipment.
- As per revalidation date and schedule.

5.0 OPERATIONAL QUALIFICATION PROCEDURE

5.1 SYSTEM DESCRIPTION:



OPERATIONAL QUALIFICATION PROTOCOL **FOR**

DOUBLE HEAD TUBE FILLING **MACHINE**

Lami/Plastic Tubes

Max

50

205

Min

16

80

PROTOCOL No.:

Aluminium Tubes

Max 50

205

Min

10

80

1	Equipment Name	: Double Head Tube Filling Machine
2	Supplier/Manufacturer	: Wimco Limited
	Model	: GAN COMBI (GAN L.S 120)
3	Serial no.	: 299/15
5	Machine Speed Location	 120 tube per minute (approx.). Actual output wi depend upon the fill weight, product viscosity : MOC of the tube & skill of the operator. For 15 gm/ 30 gm- 100 tubes/ minute (approx.) Machine speed is controlled through VFD. . Ointment Filling area
6	Products can be filled	: Cream, Gel, Toothpaste, Ointment, Adhesive
7	Viscosity	: 20 K- 300 K CPS
8	Packing Style	: Lami & Metal tubes
9	Filling Range	1 cc to 200 cc with corresponding change c : pistons- 15 mm (1-6 cc), 30 mm (6-72 cc) & 4 mm (20-150 cc), 60 mm (25-200 cc)
10	Tube Sizes	

PARAMETERS
Diameter (mm)
Cylindrical length for conic

al cap or total length including cap for inline cap tube (mm)

Product Filling Accuracy: ± 1% of fill weight 11

System Description:

The Double Head Tube Filling Machine- GAN (LS-120) is an Automatic Double head tube filling & sealing machine with an optimum speed of 120 tubes per minute. The machine is equipped with a reciprocating



MACHINE

PROTOCOL No.:

piston (Teflon) arrangement that suck the material (ointment, cream, paste etc.) from a storage hopper & delivers the same into the tube through a nozzle. The tube is held firmly in aluminium tube holder, which in turn is placed in the tube holder link. A series of the tube holder links form an endless tube holder chain. This tube holder chain moves & stops at predetermined positions (indexing operation) carrying the tube & performing various operations on the machine.

The Automatic Filling & Sealing Machine GAN (LS-120) consists of following Components:

1) Tube In feed:

This device automatically inserts the empty tubes in the holder. After insertion it also presses the tube in the holder to ensure firm hold. The system consists of rocker, motor, tilter etc.

2) I mark / Orientation:

This device ensures the correct printed panel of the tube is always visible. The device is lifted with optical sensors of P&F make & stepper motor. Optical sensor senses the eye mark printed on the tube & passes the signal to the motor.

3) Hopper:

Double jacketed hopper with cover fitted with electrical heater, thermometer and thermostat.

4) No tube No fill sensor:

This is built-in feature provided in the machine with the help of sensors. It prevents tube free dosing.

5) Tube filling station:

Holders are made from anodized aluminium with nylon grippers & stainless steel springs are used for holding tubes. There are total 54 nos. of holders.

6) Tube Closing:

Tube closing system is of two types:

- 1. Hot Air Tube Sealing: For laminated tubes.
- 2. Metal Tube Crimping: For metal tubes.

7) Jogging Device:

Inching button with cable for easy machine maintenance & set up.

This machine is equipped with center overload clutch system, which in turn switches off the machine in case of any overload. This avoids damages or breakages of components. Machine has frame guard



PROTOCOL No.:

fabricated in S.S. tubular form equipped with the safety switches are set on all doors. The machines will automatically stop when any door is opened. The machine is equipped with electrical & pneumatic interlock system. Hence until & unless the air supply is not given to the machine wouldn't ready to run.



PROTOCOL No.:

5.2 INSTRUCTION FOR FILLING THE CHECKLIST

- 5.2.1 In case of the compliance of the test actual observation should be written in specified location.
- 5.2.2 For identification of the components of the equipment and utilities actual observation should be written in specified location.
- 5.2.3 Give the detailed information in the summary and conclusion part of the Operational Qualification report.
- 5.2.4 Whichever column is blank or not used 'NA' shall be used.



PR	N	T/	\mathbf{M}	$\boldsymbol{\Omega}$	N.	<u> </u>
$\mathbf{L}\mathbf{L}$	v	ΙL	八	VΙ	⊿ IN	υ

This test is intended to describe the equipments/instruments and its complete details to have a traceability to the national standard which is to be used for the verification of the operation.

S.No.	Name Of Instrument	Inst. ID. Number	Calibration done on	Calibration Due date	Certificate Number
		<u> </u>		1	
ecked	by Date:				
mark	:				
viewe	d by (Sign/Date)				
	Verification of Calibrat				



D	D	റ	Т	A		\cap	T	N	^	
Г	R	v	I	v	יטי	v.	L	TA	v.	•

Certificate

This test is intended to describe the equipments/instruments and its complete details to have a traceability to the national standard, which is to be used for the verification of the operation of the Double Head Filling Tube Machine.

Calibration

Calibration

5.NO.	Name of Instrument	Inst. 1D. Number	done on	valid up to	number		
	Done By & Date: Remarks:						
Verified	Verified By & Date:						
5.5	VERIFICATION OF F	UNCTIONAL CHECK	XS:				

Describe each critical component and check them and fill the inspection checklist

Verification of functionality major component

5.5.1



PROTOCOL No.:

NAME OF SYSTEM COMPONENT	SPECIFIED FUNCTION	METHOD OF VERIFICATION	OBSERVATION	VERIFIED BY SIGN/DATE
Main Supply Switch	To ON/OFF the machine	By Challenging		
Buzzer Fault	Buzzer shall blow in case of any fault in the machine	By Challenging		
Automatic/Manual Mode	To run the machine in the automatic mode or in manual/inching mode.	By Challenging		
Position Stop	Machine shall be freeze immediately in the instant position.	By Challenging		
Variable Frequency Drive	To adjust the frequency or RPM of the Stirrer or machine.	By Challenging		
Tube In feeder	Automatically inserts the empty tubes in the holder.	By Challenging		
Temperature Sensor	To detect the temperature of the jacket.	By Challenging		
Thermostat	To maintain the temperature of the jacketed hopper.	By Challenging		
Stirrer	For continuously stirring the product in the hopper.	By Challenging		
Tower Lamp	To indicate the current status of the machine.	By Challenging		
Jogging Device	For inching of the tube holding rail during machine setting or cleaning.	By Challenging		

Uamariz:	
NEMATK	

PHARMA DEVILS

PR	\cap	\mathbf{C}	CO	T.	No.
T T/	\mathbf{c}	\cdot	\sim	_	11U.

Reviewed by (Sign/Date)

5.5.2 Verification of operation key functionality

NAME OF SYSTEM COMPONENT	ACCEPTANCE CRITERIA	METHOD OF VERIFICATION	OBSERVATION	VERIFIED BY SIGN/DATE
Main Switch ON	Machine should start	By twisting the main switch to ON position		
Main Switch OFF	Machine should stop	By twisting the main switch to OFF		



PR	OT	\mathbf{O}	CO	\mathbf{I}	No	١.:

	position	

MAIN MENU:

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
Visually	Following icons will be appeared after welcome screen: xx/xx/xx xx:xx: AM/PM		
	MACHINE SPEED X,xxx T/min		
	ENCODER XXX Deg		
	TANK LEVEL XXXX mm		
	MACHINE ON TIME X,XXX Min		
	PRODUCTION Tubes		
	MODE SELECT AUTO METAL AUTO SEAL MANUAL		
	SET DATA IO LIST LOG IN LOG OUT		
	WELCOME MANUAL MODE SELECTED ALARM		

MODE SELECT:

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
Visually	On pressing the icon appears on the Main Menu following screen shall be appear: xx/xx/xx		



PROTOCOL No.:

AUTO METAL MODE AUTO SEAL MODE MANUAL MODE
MANUAL MODE SELECTED AUTO AUTO SEAL MANUAL MAIN



PR()TC	COI	No.

AUTO METAL MODE:

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
Visually	On pressing the icon appears on the Main Menu following		
	screen will be appear:		
	XX/XX/XX XX:XX:XX AM/PM		
	DOOR HOOTER		
	CASSETE MOTOR O JACKET WATER		
	P MARK SENSOR		
	FILLING SV TRIM VACUUM		
	EJECT SV WATER PUMP		
	TUBE SENSOR		
	TUBE CLEANING •		
	PRODUCTION XXXXXXXX LEVEL XXXX		
	PRODUCTION LEVEL MAX		
	ENCODER xxx		
	RESET COUNT MAIN SEAL MODE FILING RESET		



PROTOCOL No.:	PR	OTO	OCO)L	No.:
---------------	----	-----	-----	-----------	------

AUTO SEAL MODE:

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
Visually	On pressing the icon appears on the Main Menu following		
	screen will be appear:		
	xx/xx/xx AUTOSEAL MODE xx:xx:xx AM/PM		
	DOOR HOOTER		
	CASSETE MOTOR		
	P MARK SENSOR SEAL SV TRIM		
	VACUUM/FEED PUMP		
	WATER /STIRRER		
	BLOWER/T. PRESS BLOW OFF		
	TUBE SENSOR		
	PRODUCTION XXX LEVEL XXX		
	ENCODER XXX FILLING RESET		
	RESET COUNT AUTO RESET MAIN METAL MODE		



PROTOCOL No.:	PR	\mathbf{OT}	OC	\mathbf{OL}	No.	:
---------------	----	---------------	----	---------------	-----	---

MANUAL:

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
	On pressing the icon appears on the Main Menu following		
	screen will be appear:		
	XX/XX/XX MANUAL XXX XX:XX AM/PM		
	BLOWER MOTOR OFF		
	HEATER – 1		
	HEATER – 2		
	VACUUM PUMP OFF		
	LUBRICATION PUMP OFF		
	WATER PUMP OFF		
	MAIN NEXT		
	On pressing the NEXT icon appears on the above screen		
	following icons will be appear:		
	xx/xx/xx MANUAL xxx x:xx:xx am/pm		
	HEAD – 1		
	CASSETE MOTOR OFF		
	STEP MOTOR SIGNAL OFF		
	FILLING VALVE OFF		
	SEALING VALVE OFF		
	EJECT VALVE OFF		
	FEED PUMP OFF		
	HEAD 1 BLOW OFF SV OFF		
	PREV MAIN NEXT		



DD	\sim r	-	~	\sim T	T T	
PR	4 1		M 'I			^ •
1 1/	、 ,		,,,	. , .	/ I TI	

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
	On pressing the NEXT icon appears on the above screen following icons will be appear:		
	Jouowing icons will be appear:		
	XX/XX/XX MANUAL XXX XX AM/PM		
	HEAD – 2		
	CASSETE MOTOR OFF		
	STEP MOTOR SIGNAL OFF		
	FILLING VALVE OFF		
	TUBE CLEAN OFF		
	POSITIVE CUT OFF SV OFF		
	TRIM VACUUM PUMP OFF		
	HEAD 2 BLOW OFF SV		
	PREV MAIN NEXT		
	On pressing the NEXT icon appears on the above screen following icons will be appear:		
	Jouowing icons will be appear:		
	xx/xx/xx MANUAL xxx xx:xx am/pm		
	CASSETE VACUUM SV OFF		
	TRIMING SV OFF		
	STIRRER MOTOR OFF		
	JACKET HEATER OFF		
	PREV MAIN		



OPERATIONAL QUALIFICATION PROTOCOL FOR

PROTOCOL No.:

DOUBLE HEAD TUBE FILLING MACHINE

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
Visually & by	On pressing the SET DATA icon appears on the MAIN screen		
pressing the soft	following icons will be appear on the screen: xx/xx/xx SET DATA xx:xx:xx AM/PM		
keys	xx/xx/xx SET DATA XX:xx:xx AM/PM		
	HEAD-1 HEAD-2		
	TUBE PRESSURE XXX XXX XXX		
	STEPPER MOTOR XXX XXX XXX		
	FILLING VALVE XXX XXX XXX XXX		
	BLOW OFF VALVE XXX XXX XXX XXX		
	POSITIVE CUT OFF XXX XXX		
	CAS VACUUM VALVE XXX XXX		
	EJECTION VALVE XXX XXX		
	TRIMMING VALVE XXX XXX		
	TUBE CLEANING VALVE XXX XXX		
	On pressing the NEXT icon appears on the above screen following icons will be appear on the screen: xx/xx/xx SET DATA xx:xx:xx AM/PM		
	FILL XXX XXX		
	POSITION STOP XXX M/C TIME XXX V		
	EJECT XXX PRODUCTION XXX		
	LUBRI.DELAY XXX MIN		
	LUBRI. ON TIME XXX SEC ENCODER XXX PPR SCALE		
	HOPPER LOW LEVEL XXX HOPPER ACTUAL LEVEL		
	HOPPER MID LEVEL XXX XXX		
	HOPPER HIGH LEVEL XXX		
	PREV MAIN NEXT		
	On pressing the NEXT icon appears on the above screen following		
	icons will be appear on the screen: xx/xx/xx		
	PRESSER S/W STIRRER J HEATER BYPASS BYPASS BYPASS		



MACHINE

PR	\cap	$\Gamma \cap$	CO	AT .	NI.	٠.
\mathbf{r}	v	W	w		17(ı)

METHOD OF VERIFICATION	ACCEPTANCE CRITE	RIA	OBSERVATION	VERIFIED BY SIGN/DATE
	LUBRICATION BYPASS HEATER – 1 INACTIVE	HEATER – 2 ACTIVE		
	DOOR BYPASS CONFIG	FEED BYPASS		
	TIMER RESET	COUNTER RESET		
	PREV	MAIN		

I/O LIST

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
Visually & By pressing the soft keys	On pressing the INPUT icon appears on the MAIN MENU screen, WINDOW shall be appear on the screen which consist of following content:		
	XX/XX/XX XX:XX AM/PM		
	INPUTS		
	I:0/0 ENCODER – 1		
	I:0/1 EMERGENGY STOP PANEL SIDE		
	I:0/2 EMERGENGY STOP EJECT SIDE		
	I:0/3 ENCODER SPARE		
	I:0/4 PRESSURE SWITCH		
	I:0/5 MAIN MOTOR START		
	I:0/6 MAIN MOTOR STOP		
	I:0/7 INCH PUSH BUTTON		
	MAIN NEXT		
	On pressing the NEXT icon appears on the above screen following		
	icons will be appear on the screen: XX/XX/XX XX:XX AM/PM		
	INPUTS		
	I:0/8 POSITION STOP PB		
	I:0/9 HOME PROXY		
	I:0/10 INTERCONN BACKLOG SENSOR 1		
	I:0/11 INTERCONN BACKLOG SENSOR 2		
	I:0/12 DOOR 1		
	I:0/13 DOOR 2		
	I:0/14 DOOR 3		



OPERATIONAL QUALIFICATION PROTOCOL FOR

PROTOCOL No.:

DOUBLE HEAD TUBE FILLING MACHINE

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
	I:0/15 DOOR 4		
	PREV MAIN NEXT		
	On pressing the NEXT icon appears on the above screen following		
	icons will be appear on the screen:		
	xx/xx/xx INPUTS xx:xx:xx am/pm		
	I:0/16 PAC BYPASS		
	I:0/17 TUBE PRESENT HEAD – 1		
	I:0/18 I MARK SENSOR SIGNAL 1		
	I:0/19 I MARK SENSOR SIGNAL 2		
	I:1/0 TRIM VACUUM PUMP O/L		
	I:1/1 VFD TRIPPED SIGNAL		
	I:1/2 BLOWER TRIPPED SIGNAL		
	I:1/3 MACHINE OVERLOAD		
	PREV MAIN NEXT		
	On pressing the NEXT icon appears on the above screen following icons will be appear on the screen:		
	xx/xx/xx INPUTS xx:xx:xx AM/PM		
	I:1/4 TUBE PRESENT HEAD 2		
	I:1/5 AIR FLOW S/W HEAD 2		
	I:1/6 WATER PUMP O/L SIGNAL		
	I:1/7 VACUUM PUMP O/L SIGNAL		
	I:1/8 AIRFLOW S/W HEAD 1		
	I:1/9 STIRRER MOTOR O/L SIGNAL		
	I:1/10 TUBE EJECT O/L		
	I:1/11 FEED PUMP O/L SIGNAL		
	PREV MAIN NEXT		



OPERATIONAL QUALIFICATION PROTOCOL FOR

PROTOCOL No.:

DOUBLE HEAD TUBE FILLING MACHINE

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
	On pressing the NEXT icon appears on the above screen following		
	icons will be appear on the screen:		
	xx/xx/xx OUT PUTS xx:xx:xx AM/PM		
	O:0/0 BLOWER MOTOR		
	O:0/1 HEATER 1		
	O:0/2 HEATER 2		
	O:0/3 VACUUM PUMP		
	O:0/4 WATER PUMP		
	O:0/5 LUBRICATION PUMP		
	O:0/6 CASSETE MOTOR 1		
	O:0/7 CASSETE MOTOR 2		
	PREV MAIN NEXT		
	On pressing the NEXT icon appears on the above screen following		
	icons will be appear on the screen:		
	xx/xx/xx OUT PUTS xx:xx:xx am/pm		
	O:0/8 JACKET HEATER		
	O:0/9 TRIM VAC PUMP		
	O:0/10 FEED PUMP		
	O:0/11 MAIN MOTOR		
	O:2/0 STIRRER MOTOR		
	O:2/1 TOWER LAMP M/C ON		
	O:2/2 TOWER LAMP M/C START / INCH		
	O:2/3 STEP MOTOR ON/OFF SIGNAL 1		
	PREV MAIN NEXT		
	On pressing the NEXT icon appears on the above screen following		
	icons will be appear on the screen:		
	xx/xx/xx OUT PUTS $xx:xx:xx$ AM/PM		
	O:2/4 STEP MOTOR ON/OFF SIGNAL 2		
	O:2/5 FILLING SV HEAD 1		
	O:2/6 SEALING SV		
	O:2/7 FILLING SV HEAD 2		
	O:2/8 TUBE CLEANING SV		
		1	



MACHINE

\mathbf{D}	RC	١T	Λ	\boldsymbol{C}	ΛI	r	N	\mathbf{a}	
1	N	, ,	v	\mathbf{v}	נע	_	ΤJ	v.	

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
	O:2/9 EJECTION SV		
	O:2/10 CASSETE VACUUM SV		
	O:2/11 BLOW OFF HEAD 1		
	PREV MAIN NEXT		
	On pressing the NEXT icon appears on the above screen following		
	icons will be appear on the screen:		
	xx/xx/xx OUT PUTS xx:xx:xx AM/PM		
	O:2/12 BLOW OFF HEAD 2		
	O:2/13 HOOTER/ FAULT INDICATION		
	O:2/14 TRIMMING SV		
	O:2/15 POSITIVE CUT OFF SV		
	PREV MAIN		

LOG IN:

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
Visually & By	On pressing the LOGIN icon appears on the MAIN MENU screen,		
pressing the soft keys	WINDOW shall be appear on the screen which consist of following		
	content:		
	1. User		
	2. Password		
	3. Virtual Keypad		

LOG OUT:

METHOD OF VERIFICATION ACCEPTANCE CRITERIA OBSERVA	ATION VERIFIED BY SIGN/DATE
--	-----------------------------



PR	$\mathbf{\Omega}$	T		\cap	[N	Ī	
$\Gamma \Lambda$		11	ハ	(/)		w.	

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
Visually & By pressing the soft keys	On pressing the LOG OUT icon appears on the MAIN MENU screen WINDOW shall be RETURN to the MAIN MENU and following window shall be appear on the screen which consist of following content: xx/xx/xx		

ALARM:

METHOD OF VERIFICATION	ACCEPTANCE CRITERIA	OBSERVATION	VERIFIED BY SIGN/DATE
	On pressing the ALARM icon appears on the MAIN MENU screen		
pressing the soft keys	following window shall be appear on the screen which consist of		
_	following content:		
	xx/xx/xx xx:xx AM/PM		
	ALARM MESSAGE		
	Δ		
	CLEAR ALL ACK MAIN		

Remark:			 	
Reviewed	l by (Sign/Date)		

5.6 VERIFICATION OF SUPPORTING UTILITIES:



MACHINE

P	R(T	'n	C()I	٠. ١	No.	
		, .	.,		,,,		711.	

UTILITY	METHOD OF VERIFICATION	OBSERVATIONS	VERIFIED BY SIGN/DATE
Electricity: 3 Phase, 440v & 50 Hz with neutral and proper earthing	By using clamp meter		
Compressed air Not less than 6.0 bar	Visually on pressure gauge		
Chilled water line For chilled water supply	Visually/Physically		

Remark:	 	 	 	

Reviewed by (Sign/Date)



PROTOCOL No).	:
-------------	----	---

5.7 VERIFICATION OF SAFETY FEATURE

Identify and record the safety features (if any) and their function in following tables:

SAFETY FEATURES DESCRIPTION	FUNCTION	METHOD OF VERIFICATION	OBSERVATION	VERIFIED BY SIGN & DATE
Earthing of motor	To avoid the accident			
	due to the leakage	Visually		
	current.			
Overload Clutch	Switches off the			
System	machine in case of any			
	overload to avoid	By Challenging		
	damages or breakages			
	of components.			
Electrical &	Until & unless the air			
Pneumatic Interlock	supply is not given to	By Challenging		
System	the machine wouldn't	by Chancinging		
	ready to run.			
Guard Safety	Machine will			
Switches	automatically stop	By Challenging		
	when any door is	by Chancinging		
	opened.			
Emergency Stop	In case of emergency	Py Challanging		
	stop of machine.	By Challenging		

Remark:		 	 	
	······································	 	 	
Reviewed	l by (Sign/Date)			



P	R	O	T	O	\mathbf{C}	O	L	N	0.
---	---	---	---	---	--------------	---	---	---	----

The following Standard Operating Procedures were identified as important for effective performance of Double Head Tube Filling Machine.

S.No.	SOP Title	SOP Number	Verified By Sign/Date			
Remark:						
Reviewed by (Sign/Date)						



DD	\sim $^{-1}$	-	α		T T	
PR		'		11		Λ.
1 17			\cdot		14	

S.No.	Name of Personne	l Designation	Sign. & Date	Trained By	Remark
Remark:					
.10 LIST	Γ OF ANNEXURES:				



PRC	TC	OCO	L	No.

Remarks (if any):	
Done By & Date:	Verified By & Date:

5.11 DEFICIENCY AND CORRECTIVE ACTION (S) REPORT (S)

Following deficiency was identified and corrective actions taken in consultation with the Engineering Department.



PROTOCOL No.:

Description of deficiency:	
Corrective action(s) taken:	
Deviation accepted by (Sign/Date)	Deviation Approved by (Sign/Date)
Deviation accepted by (Sign/Date)	Deviation Approved by (Sign/Date)
Deviation accepted by (Sign/Date)	Deviation Approved by (Sign/Date)
Deviation accepted by (Sign/Date)	Deviation Approved by (Sign/Date)
Deviation accepted by (Sign/Date)	Deviation Approved by (Sign/Date)
(Sign/Date)	Deviation Approved by (Sign/Date)
Deviation accepted by (Sign/Date) 5.12 Abbreviations	Deviation Approved by (Sign/Date)
(Sign/Date)	Deviation Approved by (Sign/Date)



PROTOCOL No.:

Following Abbreviations are used in the Operational Qualification of Double Head Tube Filling Machine.

ID .: Identification Number

V: Voltage

Hz: Hertz

SOP: Standard Operating Procedure

mm: Milimeter

gm: Gram

MOC: Material of Construction

NA: Not Applicable



PR	OΤ	വ	സ	T.	Nο
1 1/	\mathbf{r}	\mathbf{v}	\sim	_	T 10.

1 111 1111	LI DE (IE)	
6.0	OPERATIONAL QUALIFICATION FINAL REPORT:	
6.1	SUMMARY:	
6.2	CONCLUSION:	
0.2	CONCLUSION.	

6.3 FINAL REPORT APPROVAL

Prepared By

Sign/Date

It has been verified that all tests required by this protocol are completed, reconciled and attached to this protocol or included in the qualification summary report. Verified that all amendments and discrepancies are documented, approved and attached to this protocol. If applicable signature in the block below indicates that all items in this Operational qualification report of Double Head Tube Filling Machine have been reviewed and found to be acceptable and that all variations or discrepancies have been satisfactorily resolved.

Checked By

Sign/Date



PR	$\mathbf{\Omega}$	T		\cap	[N	Ī	
$\Gamma \Lambda$		11	ハ	(/)		w.	

FUNCTION	NAME	DESIGNATION	DEPARTMENT	SIGNATURE	DATE
REVIEWED BY			QUALITY ASSURANCE		
			ENGINEERING		
			PRODUCTION		
APPROVED BY			HEAD OPERATION		
			QUALITY ASSURANCE		