

LIST OF MACHINES

SL NO	NAME OF MACHINE	Qty in Nos
1	GRANULES PREPARATION MACHINE	1
2	DT/DM PREPARATION MACHINE	1
3	AL PLUG MACHINE	1
4	SPACER MACHINE	1
5	1.0 SEC & 3.5 SEC DELAY IGNITOR ASSEMBLING MACHINE	1
6	RF CASE & CAP CHAMBER ASSEMBLE MACHINE	1
7	AUTOMATIC DISKING MACHINE	1
8	T S SHELL FILLING MACHINE	1
9	AUTOMATIC CARTRIDGE CASE FILLING & CRIMPING MACHINE	1
10	T S SHELL SOFT NOSE FILLING	1
11	T S SHELL SOFT NOSE ASSMEBLY MACHINE	1
12	T S GRENADE FILLING MACHINE	1
13	T S GRENADE ASSEMBLY MACHINE	1
14	CARTRIDGE CASE PREPARATION MACHINE	1
15	STUN COMPOSTION FILLING MACHINE	1
16	STUN & DYE MARKER GRENADE ASSEMBLY MACHINE	1
17	CARTRIDGE CASE PUSH FIT MACHINE	1
18	AUTOMATIC CRIMPING MACHINE (NORMAL STUN SHELL)	1
19	AUTOMATIC CRIMPING MACHINE (ELECTRIC STUN SHELL)	1
20	DIMENSION MEASURING MACHINE FOR ALUMINIUM COMPONENTS	1
21	DIMENSION MEASURING MACHINE FOR PLASTIC COMPONENTS	1
22	DIMENSION MEASURING MACHINE FOR MISC COMPONENTS	1

(MANOHAR LAL) 21C
~~JOINT GENERAL MANAGER~~
~~FOR GENERAL MANAGER~~
~~TEAR SMOKE UNIT BSF TEKANPUR~~
 कर्मचारी इकाई
 Tear Smoke Unit
 सीमा सुरक्षा बल
 Border Security Force
 टेकनपुर गढ़वा (म.प्र.)
 Tekanpur Gwailor (M.P.)



GRANULES PREPARATION MACHINE

INPUT:-

- 1. CHEMICAL - 27 (POWDER FORM).
 - A) POWDER FORM
 - B) SPECIFIC GRAVITY=4.98 GM/CC
 - 2. CHEMICAL - 29 (POWDER FORM).
 - A) POWDER FORM
 - 3. CHEMICAL - 28 (POWDER FORM).
 - A) POWDER FORM.
 - B) SPECIFIC GRAVITY=2.52 GM/CC
 - 4. NC EASTER APC-217 (LIQUID)-450 ML
- } RATIO:- 79:15:6

OUTPUT:-

DRY GRANULES OF DELAY COMPOSITION OF SIZE 420 MICRON.








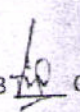
RATE:- 3 KG/HOURS.

QUALITATIVE / REQUIREMENTS

1)	ALL MOVING PARTS OF MACHINE SHOULD BE CORROSION RESISTANT, FLAME AND SPARK PROOF AND MADE OF ISI / CLASS APPROVED QUALITY MATERIAL.
2)	IN CASE OF MALFUNCTIONING, THE MACHINE SHOULD HAVE AUTOMATIC TRIPPING SYSTEM ALONG WITH AUDIO AND VISUAL INDICATORS.
3)	MACHINE SHOULD HAVE EARTHING FACILITY/STATIC DISCHARGE PANEL.
4)	ALL ELECTRICAL EQUIPMENT'S/COMPONENTS FITTED IN THE MACHINE SHOULD BE OF REPUTED BRAND AND OF ISO CERTIFIED COMPANY.
5)	MACHINE SHOULD HAVE SEPARATE HUMAN MACHINE INTERFACE (HMI)/CONTROL PANEL FACILITY.
6)	MACHINE SHOULD OPERATE PREFERABLY ON PLC CONTROL OF IEC-61131 STANDARD
7)	MIXING OF ALL CHEMICALS SHOULD BE HOMOGENEOUS.
8)	MIXING SURFACE SHOULD BE NON-STICKY.
9)	MACHINE SHOULD HAVE AUTO CLEANING SYSTEM.

PO M M-1 de M-2 A M-3 DU M-4 Pabb Co-M-1 3 Co-M-2 A CoM-3 W CO-M-4 gn

10)	MACHINE SHOULD BE ABLE TO OPERATE WITHIN OPERATING TEMPERATURE $25 \pm 10^{\circ}$ C AND OPERATING HUMIDITY $40 \pm 15\%$.
11)	ALL ELECTRIC WIRING AND ELECTRICAL COMPONENTS SHOULD BE PROPERLY CASED AND FLAME PROOF AND EASILY ACCESSIBLE FOR REPAIR AND MAINTENANCES.
12)	MACHINE SHOULD BE COMPACT TO SAVE SPACE AND EASY TO ACCESS FOR REPAIR AND MAINTENANCES.
13)	BASIC STRUCTURE OF MACHINE SHOULD BE MADE OF ISI / CLASS APPROVED QUALITY METAL, RESISTANT TO CORROSION / RUSTING AND FLAME.
14)	USER MANUAL WITH REQUIRED ILLUSTRATIONS TO BE PROVIDED WITH MACHINE.
15)	INSTRUCTION ON REPAIR & MAINTENANCE TO BE PROVIDED WITH MACHINE.
16)	RUNNING SPARE PARTS WITH ILLUSTRATED LIST SHOULD BE PROVIDED WITH MACHINE.
17)	OPERATIONAL TRAINING SHOULD BE ARRANGED FOR 1 WEEKS FOR MINIMUM 15 PERS.
18)	REPAIR AND MAINTENANCE TRAINING SHOULD BE ARRANGED FOR 1 WEEKS FOR MINIMUM 10 PERS.
19)	SPECIFIC GAUGES AND MAINTENANCE TOOLS SHOULD BE PROVIDED WITH MACHINE.
20)	<p><u>GUARANTEE / WARRANTY:-</u></p> <p>i) MACHINE SHOULD HAVE 2 YEARS GUARANTEE / WARRANTY AFTER COMMISSIONING.</p> <p>ii) PREVENTIVE MAINTENANCE ONCE IN 3 MONTH DURING GUARANTEE / WARRANTY PERIOD.</p> <p>iii) GUARANTEE/ WARRANTY WILL BE COMPREHENSIVE i.e INCLUSIVE OF SPARE PARTS.</p>
21)	AMC PERIOD SHOULD BE 05 YEARS AFTER EXPIRY OF GUARANTEE / WARRANTY PERIOD.

PD  M-1  M-2  M-3  M-4  Co-M-1  Co-M-2  Co-M-3  Co-M-4 