


Qualitative Requirement (QRS) of _____	
(With its compliance statement to be given by tenderer)	
Description of Machines Offered:-	
i	Name
ii	Model No
iii	Make
iv	Country of Origin
Tenderers are requested to give compliance of each specification whether equipment being offered by them is complying with specification or otherwise	

SPECIFICATION OF DT/DM PREPARATION MACHINE

SL NO	SPECIFICATION	COMPLIED	NOT COMPLIED	DEVIATION, IF ANY	PAGE NO. AT WHICH TECH LITERATURE IS PLACED
1	INPUT - EMPTY DELAY TUBE AS PER DIMENSION MENTIONED IN APPX- '1-B' CHEMICAL – 17 GRANULE SIZE - 378 MICRON DELAY MIXER GRANULE SIZE - 378 MICRON DELAY COMPOSITION GRANULE SIZE - 420 MICRON				
2	OUTPUT- FILLED DT/DM.				
3	Rate 1000 Nos/hour (Minimum)				
4	PROCESS of DT/DM preparation machine as enumerated in Appendix-"1-B"				
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 EQUIPMENTS/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 HAVE VARIABLE SCOOPING/FILLING FACILITY PREFERABLY ON PLC BASED.				
7	MACHINE SHOULD OPERATE PREFERABLY ON PLC CONTROL OF IEC-61131 STANDARD.				

Signature of tenderer
Date with Stamp
Name of Tenderer


 (Manohar Lal), 2IC
 Dy General Manager (MC)
 For GM JSU BSE Tekanpur
 अनुसूचित इकाई Page 28 of 62
 Team: Smoke Unit
 सीमा सुरक्षा बल
 Border Security Force
 टेकनपुर ग्वालियर (म.प्र.)
 Tekanpur Gwalior (M.P.)

SL NO	SPECIFICATION	COMPLIED	NOT COMPLIED	DEVIATION, IF ANY	PAGE NO. AT WHICH TECH LITERATURE IS PLACED
8	MACHINE SHOULD HAVE DIGITAL DISPLAY TO INDICATE FINISHED NO'S OF PRODUCTS.				
9	MACHINE SHOULD WORK ON PNEUMATIC BASE.				
10	TUBES CONNECTING THE MACHINE TO PNEUMATIC MACHINE SHOULD BE OF REQUISITE DIMENSIONS AND ISI MAKE.				
11	MACHINE SHOULD BE ABLE TO EXTRACT PLUNGER SMOOTHLY FROM DELAY TUBE AFTER PRESSING.				
12	MACHINE SHOULD HAVE FACILITY OF DETECTION OF OMISSION AND MALFUNCTIONING AT ANY STAGES OF PROCESS AND SHOULD HAVE FACILITY TO SEPARATE THE REJECTED/ DEFECTIVE DT/DM.				
13	MACHINE SHOULD BE ABLE TO OPERATE WITHIN OPERATING TEMPERATURE $25 \pm 10^{\circ}$ C AND OPERATING HUMIDITY $40 \pm 15\%$.				
14	ALL ELECTRIC WIRING AND ELECTRICAL COMPONENTS SHOULD BE PROPERLY CASED AND FLAME PROOF AND EASILY ACCESSIBLE FOR REPAIR AND MAINTENANCES.				
15	MACHINE SHOULD BE COMPACT TO SAVE SPACE AND EASY TO ACCESS FOR REPAIR AND MAINTENANCES.				
16	BASIC STRUCTURE OF MACHINE SHOULD BE MADE OF ISI / CLASS APPROVED QUALITY METAL, RESISTANT TO CORROSION / RUSTING AND FLAME				
17	USER MANUAL WITH REQUIRED ILLUSTRATIONS TO BE PROVIDED WITH MACHINE.				
18	INSTRUCTION ON REPAIR & MAINTENANCE TO BE PROVIDED WITH MACHINE				
19	RUNNING SPARE PARTS WITH ILLUSTRATED LIST SHOULD BE PROVIDED WITH MACHINE.				
20	OPERATIONAL TRAINING SHOULD BE ARRANGED FOR 1 WEEKS FOR MINIMUM 15 PERS.				
21	REPAIR AND MAINTENANCE TRAINING SHOULD BE ARRANGED FOR 1 WEEKS FOR MINIMUM 10 PERSONNEL				
22	SPECIFIC GAUGES AND MAINTENANCE TOOLS SHOULD BE PROVIDED WITH MACHINE.				
23	GUARANTEE / WARRANTY:- i) MACHINE SHOULD HAVE 2 YEARS GUARANTEE /WARRANTY AFTER COMMISSIONING. ii) PREVENTIVE MAINTENANCE ONCE IN 3 MONTH DURING GUARANTEE/ WARRANTY PERIOD. iii) GUARANTEE/ WARRANTY WILL BE COMPREHENSIVE i.e INCLUSIVE OF SPARE PARTS.				
24	AMC Period should be 05 years after expiry of GUARANTEE/WARRANTY period .				

Signature of tenderer
Date with Stamp
Name of Tenderer

(Manohar Lal), 2IC
Dy General Manager (MC)
For GM TSU BSF Tekanpur
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Tekanpur (M.P.)