

Qualitative Requirement (QRS) of _____	
(With its compliance statement to be given by tenderer)	
Description of Machines Offered:-	
Name	
Model No	
Make	
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 QUICK MATCH STRAND MACHINE

SL NO	SPECIFICATION	COMPLIED	NOT COMPLIED	DEVIATION, IF ANY	PAGE NO. AT WHICH TECH LITERATURE IS PLACED
	INPUT - COTTON THREAD, SMGP (Sulphur less Mild Gun Powder), GUM SOLUTION ,OXIDIZER, SMGP DUST.				
	OUTPUT - STRAIGHT QUICK MATCH STRAND DIA OF QUICK MATCH STRAND SHOULD BE 0.1 INCH BURNING SPEED OF QUICK MATCH STRAND SHOULD BE BETWEEN 11 TO 19 SEC (50 CM).				
	RATE – 100 Mtr/Hour (Minimum)				
QUALITATIVE REQUIREMENTS					
1	ALL MOVING PARTS OF MACHINE SHOULD BE CORROSION RESISTANT, FLAME AND SPARK PROOF AND MADE OF GOOD 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 MOISTURE RESISTANT COATING FACILITY PREFERABLY INGRESS PROTECTION (IP44).				
7	MACHINE SHOULD OPERATE PREFERABLY ON PLC CONTROL OF IEC-61131 STANDARD.				

Signature of the tenderer

(Manohar Lal) JIC/JGM
 For GM TSU BSE, Tekanpur
 Joint General Manager
 अशु रोस इकाई
 Tear Smoke Unit
 सीमा खुला बाजार

SL NO	SPECIFICATION	COMPLIED	NOT COMPLIED	DEVIATION, IF ANY	PAGE NO.AT WHICH TECH LITERATURE IS PLACED
8	MACHINE SHOULD BE CAPABLE TO SOAK COMPLETELY 6 STRANDS OF COTTON THREAD, 100 MTRS EACH IN THICK SOLUTION OF EXPLOSIVE QUANTITY 360 GM DISSOLVED IN GUM SOLUTION QUANTITY 318 ML AND MAKE A SINGLE COTTON THREAD NO.66.				
9	MACHINE SHOULD BE CAPABLE TO SPRINKLE SMGP DUST AFTER MAKE A SINGLE THREAD AND CAPABLE TO DRY THE COTTON THREAD SPARK PROOF AND OVER HEATING SHUT DOWN SYSTEM				
10	MACHINE SHOULD HAVE ADJUSTABLE CUTTING SYSTEM.				
11	CHAMBER WITH TEMPERATURE AND HUMIDITY CONTROL SHOULD ALSO BE PROVIDED.				
12	ALL ELECTRIC WIRING AND ELECTRICAL COMPONENTS SHOULD BE PROPERLY CASED AND FLAME PROOF AND EASILY ACCESSIBLE FOR REPAIR AND MAINTENANCES.				
13	MACHINE SHOULD BE COMPACT TO SAVE SPACE AND EASY TO ACCESS FOR REPAIR AND MAINTENANCES.				
14	BASIC STRUCTURE OF MACHINE SHOULD BE MADE OF GOOD QUALITY METAL, RESISTANT TO CORROSION / RUSTING AND FLAME.				
15	USER MANUAL WITH REQUIRED ILLUSTRATIONS TO BE PROVIDED WITH MACHINE.				
16	INSTRUCTION ON REPAIR & MAINTENANCE TO BE PROVIDED WITH MACHINE.				
17	RUNNING SPARE PARTS WITH ILLUSTRATED LIST SHOULD BE PROVIDED WITH MACHINE.				
18	OPERATIONAL TRAINING SHOULD BE ARRANGED FOR 1 WEEKS FOR MINIMUM 15 PERS.				
19	REPAIR AND MAINTENANCE TRAINING SHOULD BE ARRANGED FOR 1 WEEKS FOR MINIMUM 10 PERS.				
20	SPECIFIC GAUGES AND MAINTENANCE TOOLS SHOULD BE PROVIDED WITH MACHINE				
21	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				
22	AMC PERIOD SHOULD BE 05 YEARS AFTER EXPIRY OF GUARANTEE / WARRANTY PERIOD				

Signature of the tenderer

(Manohar Lal) 21C/JGM
 Joint General Manager
 अशु रोस इकाई
 Tear Smoke Unit
 सीमा प्रकाश कर्म

TRIAL DIRECTIVE OF QUICK MATCH STRAND MACHINE


SL NO	SPECIFICATION	METHODOLOGY	COMPLIED / NOT COMPLIED
1	ALL MOVING PARTS OF MACHINE SHOULD BE CORROSION RESISTANT, FLAME AND SPARK PROOF AND MADE OF GOOD QUALITY MATERIAL.	The firm should submit national / International accredited lab test report for this aspect.	
2	IN CASE OF MALFUNCTIONING, THE MACHINE SHOULD HAVE AUTOMATIC TRIPPING SYSTEM ALONG WITH AUDIO AND VISUAL INDICATORS	The firm should submit national / International accredited lab test report for this aspect. & Physical verification by Boos.	
3	MACHINE SHOULD HAVE EARTHING FACILITY/STATIC DISCHARGE PANEL.	Physical verification by Boos.	
4	ALL ELECTRICAL EQUIPMENTS/COMPONENTS FITTED IN THE MACHINE SHOULD BE OF REPUTED BRAND AND OF ISO CERTIFIED COMPANY.	The firm should submit national / International accredited lab test report for this aspect	
5	MACHINE SHOULD HAVE SEPARATE HUMAN MACHINE INTERFACE(HMI)/CONTROL PANEL FACILITY.	Physical verification by Boos.	
6	MACHINE SHOULD HAVE MOISTURE RESISTANT COATING FACILITY PREFERABLY INGRESS PROTECTION (IP44).	The firm should submit national / International accredited lab test report for this aspect	
7	MACHINE SHOULD OPERATE PREFERABLY ON PLC CONTROL OF IEC-61131 STANDARD.	The firm should submit national / International accredited lab test report for this aspect	
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9	MACHINE SHOULD BE CAPABLE TO SPRINKLE SMGP DUST AFTER MAKE A SINGLE THREAD AND CAPABLE TO DRY THE COTTON THREAD SPARK PROOF AND OVER HEATING SHUT DOWN SYSTEM	Physical verification by Boos	
10	MACHINE SHOULD HAVE ADJUSTABLE CUTTING SYSTEM.	Physical verification by Boos	
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13	MACHINE SHOULD BE COMPACT TO SAVE SPACE AND EASY TO ACCESS FOR REPAIR AND MAINTENANCES.	Physical verification by Boos	
14	BASIC STRUCTURE OF MACHINE SHOULD BE MADE OF GOOD QUALITY METAL, RESISTANT TO CORROSION / RUSTING AND FLAME.	The firm should submit national / International accredited lab test report for this aspect	

Signature of the tenderer

(Manohar Lal)2IC/JGM
 For GM TSH BSNF Kanpur
 Joint General Manager
 अशु रोस इकाई
 Tear Smoke Unit

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15	USER MANUAL WITH REQUIRED ILLUSTRATIONS TO BE PROVIDED WITH MACHINE.	Physical verification by Boos	
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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		
22	AMC PERIOD SHOULD BE 05 YEARS AFTER EXPIRY OF GUARANTEE / WARRANTY PERIOD	Physical verification by Boos	

Signature of the tenderer



(Manohar Lal)2IC/JGM
For JGM 1510 BSR Tekanpur
Joint General Manager
अशु रोस इकाई
Tear Smoke Unit
सीमा प्रस्ता बल

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SPECIFICATION OF PC SHEET COATING MACHINE


SL NO	SPECIFICATION	COMPLIED	NOT COMPLIED	DEVIATION, IF ANY	PAGE NO. AT WHICH TECH LITERATURE IS PLACED
	INPUT PRIME CAMBRIC CLOTH. SMGP (SULPHUR LESS MILD GUN POWDER), GUM SOLUTION				
	OUTPUT BOTH SIDE COATED P C SHEET (1 m x 1m).				
	RATE 15 SHEET/1 HOURS.				
QUALITATIVE REQUIREMENTS					
1	ALL MOVING PARTS OF MACHINE SHOULD BE CORROSION RESISTANT, FLAME AND SPARK PROOF AND MADE OF GOOD 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				
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7	MACHINE SHOULD OPERATE PREFERABLY ON PLC CONTROL OF IEC-61131 STANDARD				
8	MACHINE SHOULD BE CAPABLE TO COAT PRIME CAMBRIC CLOTH PIECE (1 m x 1 m) AT BOTH SIDE UNIFORMLY WITH PRESSURE TOSsing HOMOGENEOUS PASTE OF 550 GM SMGP MIXED WITH 275 ML GUM SOLUTION. THE PASTE SHOULD PERCOLATE INTO THE CLOTH AS WELL GIVE UNIFORM COAT ON BOTH SIDES				

Signature of the tenderer


 (Manohar Lal) 2IC/JGM
 For GM TSO BSP Tekanpur
 Joint General Manager
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Signature of the tenderer


(Manohar Lal) 2IC/JGM
For ~~IGM~~ ~~Sub~~ ~~Station~~ ~~Te~~kanpur
Joint General Manager
अधु गैस इकाई
Tea Break Unit
सोना पुष्पा बग