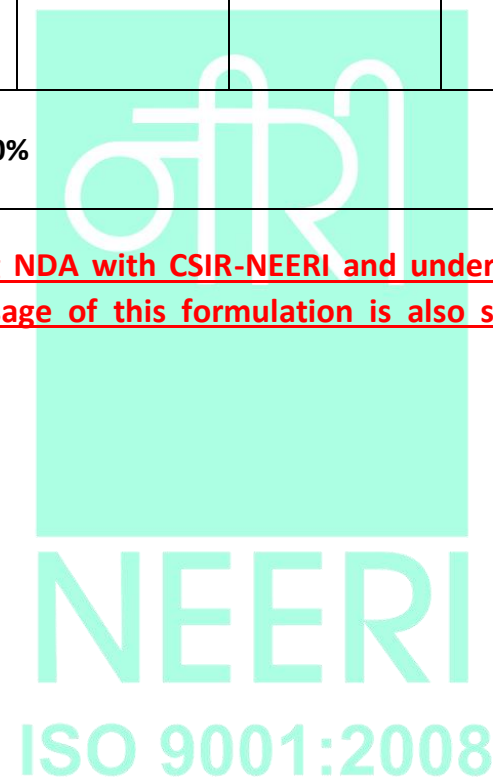
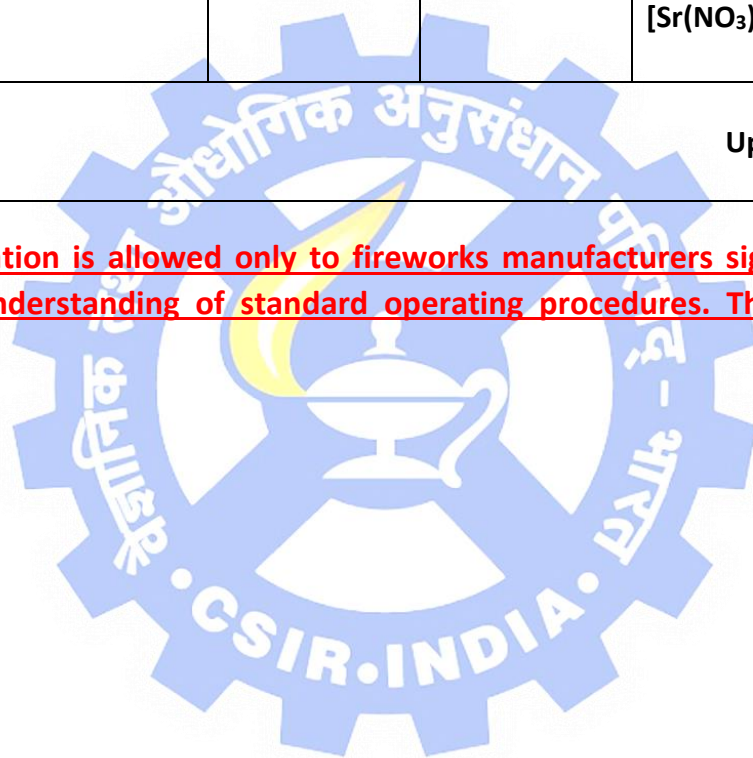


**Table 1. New Formulation for Sparklers (SZ)**

Material →	Aluminium Powder 222 (%)	Aluminium Powder 999 (%)	MgAl (%) (200 Mesh Size)	Oxidizer (%)	White Dextrin (%)	Iron Powder (%)	Additive (%) ZP: Zeolite Powder
New Formulation - SZ	2.0	2.0	5.0	50.0 [Sr(NO <sub>3</sub> ) <sub>2</sub> ]	8.0	28.0	5.0
% PM Reduction In New Formulation	Upto 30%						

Usage of this formulation is allowed only to fireworks manufacturers signing NDA with CSIR-NEERI and undergoing hands on training for better understanding of standard operating procedures. The usage of this formulation is also subject to PESO approval



**Table 2. New Formulation for Chinese Cracker (SWAS - HG)**

Material →	Sulphur (%)	Aluminium Powder 999 (%)	Potassium Nitrate (%)	Additive (%) HG: Boric Acid Hydrogel	Sound (dBA)
New Formulation - SWAS (HG)	3.0	9.0	16.0	72.0	110.0
% PM Reduction In New Formulation	Upto 30%				

Usage of this formulation is allowed only to fireworks manufacturers signing NDA with CSIR-NEERI and undergoing hands on training for better understanding of standard operating procedures. The usage of this formulation is also subject to PESO approval

**Table 3. New Formulation for Chinese Cracker (SAFAL - ZPT)**

Material →	Sulphur (%)	Aluminium Powder 999 (%)	Potassium Nitrate (%)	Additive (%) ZPT: Zeolite Pellets	Sound (dBA)
New Formulation - SAFAL (ZPT)	3.0	9.0	16.0	72.0	104.0
% PM Reduction In New Formulation	Upto 30%				

Usage of this formulation is allowed only to fireworks manufacturers signing NDA with CSIR-NEERI and undergoing hands on training for better understanding of standard operating procedures. The usage of this formulation is also subject to PESO approval

**Table 4. New Formulation for Chinese Cracker (C/F)**

Material →	Sulphur (%)	Aluminium Powder 999 (%)	Potassium Nitrate (%)	Additive (%) F: Fe <sub>2</sub> O <sub>3</sub>	Sound (dBA)
New Formulation - C/F	5.0	29.0	28.0	38.0	105.0
% PM Reduction In New Formulation	Upto 30%				

Usage of this formulation is allowed only to fireworks manufacturers signing NDA with CSIR-NEERI and undergoing hands on training for better understanding of standard operating procedures. The usage of this formulation is also subject to PESO approval

**Table 5. New Formulation for Chinese Cracker (STAR - K)**

Material →	Sulphur (%)	Aluminium Powder 999 (%)	Potassium Permanganate (%)	Sound (dBA)
New Formulation - STAR - K	0.0	13.0	87.0	105.0
% PM Reduction In New Formulation	Upto 30%			

Usage of this formulation is allowed only to fireworks manufacturers signing NDA with CSIR-NEERI and undergoing hands on training for better understanding of standard operating procedures. The usage of this formulation is also subject to PESO approval

**Table 6. New Formulation for Flower Pot (STAR - Z)**

Material →	Potassium Nitrate (%)	Aluminium Powder 666 (%)	Aluminium Chips FF03 (%)	Additive (%)
				Z: Zeolite Pellets
New Formulation - STAR - Z	35.0	34.0	17.0	14.0
% PM Reduction In New Formulation	Upto 30%			

Usage of this formulation is allowed only to fireworks manufacturers signing NDA with CSIR-NEERI and undergoing hands on training for better understanding of standard operating procedures. The usage of this formulation is also subject to PESO approval

**Table 7. New Formulation for Flower Pot (STAR - F)**

Material →	Sulphur (%)	Potassium Nitrate (%)	Aluminium Powder 666 (%)	Aluminium Chips FF03 (%)	Additive (%)
					F: Fe <sub>2</sub> O <sub>3</sub>
New Formulation - STAR - F	0.5	32.0	40.0	10.5	17.0
% PM Reduction In New Formulation	Upto 30%				

Usage of this formulation is allowed only to fireworks manufacturers signing NDA with CSIR-NEERI and undergoing hands on training for better understanding of standard operating procedures. The usage of this formulation is also subject to PESO approval