Table 1. New Formulation for Sparklers (SZ)

Material -	Aluminium Powder 222 (%)	Aluminium Powder 999 (%)	MgAI (%) (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 ₃) ₂]	8.0	28.0	5.0
% PM Reduction In New Formulation	3	भागिक अ	नुसंहात	Upto 30	%	DI	



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	अधिक अ	Trie.	Upto 30%	A)

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

Material	Sulphur (%)	Aluminium Powder 999 (%)	Potassium Nitrate (%)	Additive (%) ZPT: Zeolite	Sound (dBA)
	CSIDI	DIA		Pellets	
New Formulation - SAFAL (ZPT)	3.0	9.0	16.0	9001:20	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 ₂ O ₃	Sound (dBA)
New Formulation - C/F	5.0	29.0	28.0	38.0	105.0
% PM Reduction In New Formulation	্পক	अनुक	Upto 30%	<u></u>	<u> </u>

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

Material	Sulphur	Aluminium Powder	Potassium	Sound (dBA)
→	(%)	999	Permanganate	
1		(%)	(%)	
No Formulation	000	42.0	07.0	105.0
New Formulation - STAR - K	0.0 ° R R	13.0	87.0	105.0
% PM Reduction In			' ISO 900 '	1:2008
New Formulation		Upto	30%	

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

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

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

Material	Sulphur	Potassium	Aluminium	Aluminium	Additive
	(%)	Nitrate	Powder 666	Chips FF03	(%)
		(%)	(%)	(%)	
					F: Fe ₂ O ₃
New Formulation -	0.5	32.0	40.0	10.5	17.0
STAR – F	SIR.II	ND'			
% PM Reduction In			10		
New Formulation			Upto 30%	O 9001:	2008

<u>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</u>