

FROM : HEMRLSRP2

FAX NO. : 02025869496

22 May 2018 12:06PM P1

उच्च ऊर्जा पदार्थ अनुसंधान प्रयोगशाला  
HIGH ENERGY MATERIALS RESEARCH LABORATORY

उच्च ऊर्जा पदार्थ अनुसंधान तथा विकास संशोधन, रक्षा मंत्रालय, भारत सरकार.  
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CERTIFIED LABORATORY

No. HEMRL/SRP/ECP/08/04

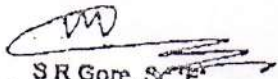
Date: 22<sup>nd</sup> May 2018

To,  
The General Manager,  
RK Section, O F Bhandara.  
Fax no. 07184-275242/275275

Kind attn.: Shri P K Meshram, AGM, OF Ba

Sub: Forwarding of Specification of ChemicalsRef: HEMRL letter no: HEMRL/SRP/ECP/16/11/02 Dt 3-11-2016

HEMRL has developed high energy EDB propellant formulations for K-5, K-4, MPATGM and KOE charge. All these high burning rate propellants require certain ballistic modifiers like Monobasic copper  $\beta$ -resorcylate and Monobasic lead  $\beta$ -resorcylate for their manufacture. The specification of these chemicals was sent vide letter referred above. However, some functional amendments has been done in the specification and hence, modified / amended specification is attached herewith for its procurements at your end.

  
S R Gore, Sc 'E'

For Director, HEMRL

✓ I. OIC, HEMRL Dett. OF Bhandara (KA Dr.V.P.Bansod, Sc. 'G' Fax no:07184-275253)

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2/05/2018 12:05

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GM. DFBA

FROM :HEMRLSRP2

FAX NO. :02025869496

22 May 2018 12:07PM P3

Specification of Mono-basic Copper-β-Resorcylate

Serial No.	Composition	Percentage Composition
1	Copper content	28±2.0
2	Volatile matters at 105°C	0.5Max
3	Free acidity as acetic acid	0.5 Max
4	Particle size	75 µm max
5	Water soluble chloride as NaCl	0.05 Max
6	Water soluble sulphata	0.05 Max

Make :

1. Indian Adhesives and Glues, Pune
2. Abhang Organics, Pune
3. Specialty Products & Research Group, pune
4. Surabhi Industries, Pune
5. Tentative Rate: 6850/- per Kg (2016-2017)

SR Gore & Co  
HEMRL, pune