

भारत सरकार, रक्षा मंत्रालय
GOVERNMENT OF INDIA, MINISTRY OF DEFENCE
आयुध निर्माणी, भंडारा- 441 906 (महाराष्ट्र)
ORDNANCE FACTORY BHANDARA -441 906 (MS)
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ई-मेल/email : ofbagm_bhv@sancharnet.in, ofba.ofb@nic.in
(पत्राचार केवल महाप्रबंधक के नाम से करें, किसी अधिकारी के नाम से नहीं)

IS/ISO 9001 & 14001



TO WHOMSOEVER IT MAY CONCERN

This is to certify that **M/s. Rudraksha Allied Chemicals Pvt. Ltd., Nagpur** has been associated with this organization for R&D trials in the following areas;

1. Recovery of dissolved RDX from Spent Nitric Acid generated from RDX Plant.
2. Removal of Nitrocellulose traces from wash water for water management.

Based on successful Laboratory trials, firm has designed required Plants & Equipments inclusive of filters etc. and has been able to satisfactorily demonstrate the removal of Nitrocellulose from wash water and recover clear water.

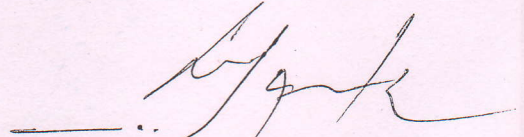
The trials for recovery of dissolved RDX from the Spent Nitric Acid are still in progress.

This organization is planning to scale up facilities for recovery of Nitrocellulose from wash water for economic water management.

We are of the opinion that the company is competent for carrying out analysis of situation, design of Plants for R&D trials and resolution of technical problems & developing technology.

We wish company the very best in their endeavour.

Dt. 16/09/2015


(M.S. MASKE)
ADDL. GENERAL MANAGER
FOR GENERAL MANAGER



महाराष्ट्र MAHARASHTRA

2021

NAGPUR TREASURY

BK 688871

Licensing Agreement for Transfer of Technology (LAToT) 19 APR 2022

Between

High Energy Materials Research Laboratory (HEMRL), Pune

Defence Research & Development Organisation (DRDO)

Ministry of Defence, Government of India

Rudraksha Allied Chemical Pvt. Ltd. (RACL) Nagpur

for

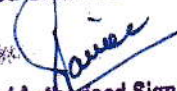
Transfer of Technology (TOT)

of

OLIGO ETHER ACRYLATE (Military Grade): Process Technology

This Licensing Agreement for Transfer of Technology is entered into on the 16th Day of June 2022 (Two Thousand twenty Two)

BETWEEN

Director HEMRL  	Director DI ² TM 	Authorised Signatory- "M/s RACL, Nagpur" For Rudraksha Allied Chemical Pvt. Ltd.  Director / Authorised Signatory
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License No. DRDO/DI²TM/ 2022...../1459

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१) मुद्रांक विक्री नोंद वही अनु क्रमांक	१५६३.	/दिनांक	20 APR 2022
२) वस्तुचा प्रकार	कपडे		
३) वस्तु नोंदणी कारणात आहेत काय ?	होय/नाही		
४) विक्रीसाठीचे थोडक्यात वर्णन			
५) मुद्रांक विक्रीत देण्यात येणारे नाव व सही	ह्याच अधिकाऱ्याने कर्मकाळीन सही		
६) इतर असल्यास त्याचे नाव, पत्ता व सही	अभिजीत		
७) दुरुवण्या पक्षकाराचे नाव			
८) मुद्रांक शुल्क रक्कम	500/-		
व्यक्तिगत एच. पाटील	मुद्रांक विक्रेता, ला.क्र. १६/८९, कोड क्र. ४६०९०४९ जिल्हाधिकारी परिसर, त.कार्यालय, नागपूर(शहर)		
ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक खरेदी केल्यापासून ६ महिन्यात वापरणे बंधनकारक आहे.			

[Signature]

The President of India, acting through and represented by the Director, High Energy Materials Research Laboratory (HEMRL), Sutarwadi, Pashan, Pune, a constituent laboratory under the Defence Research and Development Organisation, Ministry of Defence, Government of India and the Director, Dte. of Industry Interface and Technology Management (DI²TM) at DRDO HQ, DRDO Bhawan, New Delhi – 110011 (Hereinafter referred to as “DRDO”, which expression shall whenever the context so requires or admits, mean and include its successors in office and/assigns) on the first part

AND

“M/s Rudraksha Allied Chemicals Pvt. Ltd., Nagpur”, a company formed in accordance with the laws of India and having their registered office at B-3/5&6 Yashodeep Apartment, Rahate Colony, Wardha Road, Nagpur-440012 (Hereinafter referred to as “M/s RACL” which expression shall whenever the context so requires or admits, mean and include their heirs/successors, respective executors, administrators, legal representatives, and/or permitted assigns) represented by Vikram M. Parikh on the second part.

“DRDO” and “M/s RACL” are individually referred to as “Party” and jointly as Parties”.

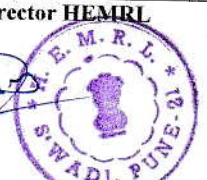
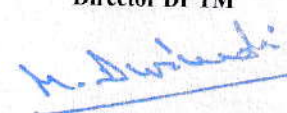
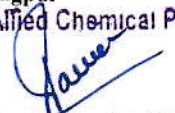
1. Preamble :

- 1.1. WHEREAS DRDO, during the course of its research activities has developed a Process Technology for manufacturing of OLIGO ETHER ACRYLATE (Hereinafter referred to as the “Process Technology” and more fully described in Technical Know-How) which is “OLIGO ETHER ACRYLATE” (Hereinafter referred to as the “Products” and more fully described in Products Description).
- 1.2. WHEREAS “M/s RACL” is desirous of utilizing the developed “Process Technology” to manufacture in India & supply to Indian Armed Forces/ other Govt. Agencies only (Hereinafter referred to as Licensing Regions and more fully described in “Licensing Regions”), the “Products”, there from.

2 Technical Know-How

DRDO shall transfer the complete details of the technical know-how and testing method for quality assurance to “M/s RACL” with requisite data on the functioning of the product.

3 Product Description

Director HEMRL  	Director DI²TM 	Authorised Signatory- “M/s RACL, Nagpur” For Rudraksha Allied Chemical Pvt. Ltd.  Director / Authorised Signatory
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License No. DRDO/DI²TM/ 2022...../1459

(i) OLIGO ETHER ACRYLATE[Dimethacrylate-Bis(Triethylene Glycol) Phthalate] is used in single base propellants as a moderant to control the burning rate of propellants. This material is required for the manufacture of 30 mm BMP-II propellant. High Energy Materials Research Laboratory (HEMRL) has established two step synthesis processes at 100g/batch for **OLIGO ETHER ACRYLATE**.

ii. Scope of ToT:

- (a) Provision of documents describing the preparation of oligo ether acrylate by two step process (at 100 g/batch).
- (b) Hand holding support will be provided for reaction set up for oligo ether acrylate at various stages of synthesis.
- (c) ToT will be considered as complete after successful demonstration of synthesis process for oligo ether acrylate.

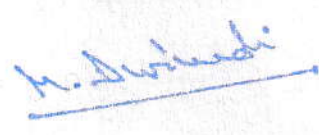
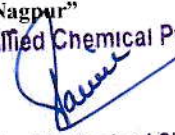
4 Licensing Regions

- 4.1 By this Licensing Agreement for Transfer of Technology, DRDO grants a **Non-exclusive** License to utilize the "Technology" by "M/s RACL" for the Manufacture in **India & sell to Indian Armed Forces (including MoD tenders)/ other Govt. Deptt./Agencies only** (referred as "Licensing Region") under the provisions contained in succeeding clauses of this Agreement.
- 4.2 For sale of the product outside the licensing region, "M/s RACL" shall seek prior written approval of **DI²TM**, DRDO HQrs.

In pursuance of above, NOW IT IS AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

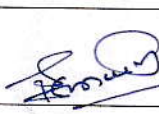
5. Grant of License

- 5.1 By this Licensing Agreement for Transfer of Technology, **DRDO** grants a **non-exclusive** license to utilize the "Technology" by "M/s RACL" for the manufacture in "India" and for sale in the "licensing regions" for "**Ten Years**" (described at Clause 14) from the date of this Agreement becoming effective.
- 5.2 **DRDO** shall have the March-in Rights to use the IP for its own use in the interest of Govt. of India without any restrictions, irrespective of the nature of license granted in this agreement.

 Director HEMRL	 Director DI ² TM	 Authorised Signatory- "M/s RACL, Nagpur" for Rudraksha Allied Chemical Pvt. Ltd. Director / Authorised Signatory
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LATOT between DRDO & M/s RACL for ToT of Oligo Ether Acrylate (Military Grade):
Process Technology

IN WITNESS HEREOF, the parties have set their hands to it on the 16th Day of June Month in the year 2022 (Two Thousand Twenty Two)

Signed for and on behalf of the President of India	Signed by on and behalf of M/s RACL
By : 	By : 
Name : KPS Murthy	Name : Vikram M. Parikh
Title : Director, HEMRL Pune	Title :
Date :	Date : 21.04.2022
By : 	
Name : Dr Mayank Dwivedi	
Title : Director, DI ² TM, DRDO HQ,	
N. Delhi	
Date :	

In the presence of:

Witness

By:

Name:

Title:

Organisation: HEMRL Pune

Date:

By:

Name:

Title:

Organisation: DI²TM DRDO HQrs

Date:

Witness

By:

Name:

Title: Director

Organisation : M/s RACL

Date: 21.04.2022