

Surveillance Evaluation Report

*Roundtable on Sustainable Biomaterials
Global - Advanced Products*

Advanced Biochemical (Thailand) Co., Ltd.
SCS Certificate Code: SCS-RSB/PC-0018

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21150, Thailand
Pan-usa Kongmutwattana
www.vinythai.co.th

CERTIFIED	EXPIRATION
September 28, 2017	September 27, 2022

DATE(S) OF AUDIT
8 October 2020
DATE OF LAST UPDATE
27 September 2021

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FOREWORD

SCS Global Services (SCS) is a certification body accredited by the Roundtable on Sustainable Biomaterials (RSB) to conduct evaluations of biofuel operators (CB Registration No. 592). Under the RSB/SCS certification system, participating operators meeting international standards of biofuel production can be certified as “sustainable,” thereby permitting the Operator’s use of the RSB endorsement and logo in the marketplace subject to regular RSB/SCS oversight.

SCS deploys interdisciplinary teams of natural resource specialists and other experts all over the world to conduct evaluations of biofuel operations. SCS evaluation teams collect and analyze written materials, conduct interviews with Participating Operator’s staff and key stakeholders, and complete field and office audits of the operation(s) identified in the certification scope. Upon completion of the fact-finding phase of all evaluations, SCS teams determine compliance to the RSB Principles and Criteria.

Please Note: An RSB certificate itself does not constitute evidence that a particular product supplied by the certificate holder is certified to RSB standards. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required RSB claim is clearly stated on-product. For more information about the RSB, visit their website at www.rsb.org.

Organization of the Report

This report of the results of our evaluation is divided into two sections. Section A provides the public summary and background information that is required by the Roundtable on Sustainable Biomaterials. This section is made available to the general public and is intended to provide an overview of the evaluation process, the management programs, and policies applied to the Participating Operator, and the results of the evaluation. Section A will be posted on the RSB Participating Operators Database (<http://rsb.org/certification/participating-operators/>). Section B contains more detailed results and information for use by the Participating Operator.

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SECTION A – PUBLIC SUMMARY

1.0 GENERAL INFORMATION

1.1 Operator Information

1.1.1 Name and Contact Information

Organization name	Advanced Biochemical (Thailand) Co., Ltd.		
Operator Number	1413		
Contact person	Ms Pan-usa Kongmutwattana		
Address	2/1 Map Ta Phut Industrial Estate, I-3 Road, Tambol Map Ta Phut, Amphur Muang Rayong, Rayong, 21150, Thailand	Telephone	+66(2) 030-6833
		Fax	
		e-mail	panusa.kong@agc.com
		Website	www.vinythai.co.th

1.1.2 Additional Parties Involved

Organization name	Advanced Biochemical (Thailand) Co., Ltd Business Office (Marketing and Sales)		
Contact person	Ms Pan-usa Kongmutwattana		
Address	No. 944 Mitrtown Office Tower, 14 th Floor, Rama 4 Road, Wangmai Sub-District, Pathumwan District, Bangkok, Thailand 10330	Telephone	+66(2) 030-6833
		Fax	
		e-mail	panusa.kong@agc.com
		Website	www.vinythai.co.th
Nature of Involvement:			
Marketing and Sales Office			

1.2 Scope of Certificate

Please select one:	<input type="checkbox"/> RSB EU RED	<input checked="" type="checkbox"/> RSB Global
Please select boxes that apply:	<input type="checkbox"/> Pre-assessment	<input type="checkbox"/> 1st Annual Surveillance
	<input type="checkbox"/> Initial Assessment	<input type="checkbox"/> 2nd Annual Surveillance
	<input type="checkbox"/> Re-certification	<input checked="" type="checkbox"/> 3rd Annual Surveillance
	<input type="checkbox"/> Follow-Up to NCs	<input type="checkbox"/> 4th Annual Surveillance
Scope as it appears on certificate:	Manufacture of Bio-based Epichlorohydrin (ECH) from Vegetable Oil derived Glycerol	

The scope assessment agrees with the scope under which the operator applied	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If no, please explain:		
<p><i>Note 1: If the scope is different, please contact SCS.</i></p> <p><i>Note 2: Where the client uses external organizations (public or private) to provide utilities services, such as electricity, waste disposal, water, the auditor shall check that these organizations are run according to local requirements (i.e. the law) but these organizations will not be considered in scope of the audit. Therefore no on-site visits to these utility services are required.</i></p>		
Total workers covered by scope of certification:	60	
Number of women workers	2 on site, 3 at office	

1.2.1 Determination of Extent of Audit

Total number of subsidiaries, branch offices, affiliated entities, external third parties contracted or otherwise engaged, operational structures, sites, facilities, processing and production units, and supply chain structures	1 Marketing office 1 Storage facility 1 Point of origin
Participating Operator Risk Class	Low
Disputes or prior Non-compliances	1 minor non conformity, closed 1 major non conformity, closed

1.2.2 Standards Used

Applicable RSB-Accredited Standards

Standard Name and Version
<ul style="list-style-type: none"> • RSB Principles & Criteria (RSB-STD-01-001 V3.0); • RSB Standard for Participating Operators (RSB-PRO-30-001 V3.2); • RSB Risk Management (PRO-PRO-60-001 V3.2); • RSB GHG Calculation Methodology (RSB-STD-01-003-01 V2.3); • RSB Procedure on Communication and Claims (RSB-PRO-50-001 V3.4); • RSB Chain of Custody (RSB-PRO-20-001 V3.2); • RSB Standard for Advanced Fuels (RSB-STD-01-010 V2.2) • RSB Standard for Advanced Products (RSB-STD-02-001 V2.0)

All standards employed are available on the websites of the Roundtable on Sustainable Biomaterials (<https://rsb.org/the-rsb-standard/working-with-the-rsb-standard/>). Standards are also available, upon request, from SCS Global Services.

1.3 Sites in Scope

1.3.1 Industrial Operator

Name of Facility		Advanced Biochemical (Thailand) Company Ltd.	
Type		<input type="checkbox"/> Agriculture Milling and/or Fermentation <input type="checkbox"/> Vegetable oil Extraction <input type="checkbox"/> Biofuel Production and/or Distribution <input checked="" type="checkbox"/> Other, please explain here: Bio-based epichlorohydrin from vegetable oil glycerine	
Location/City		Rayong, Thailand	
Geographic location (Latitude & Longitude)		12.03476, 101.149794	
Start date of operations (initial start date)		14 January 2012	
Number of processing steps		1	
Description of the product or the product component that the certification covers, including, if applicable, the specification of the mass of the certified component related to the total product.		Epichlorohydrin (ECH) is an intermediate chemical used mainly in the production of epoxy resins and other chemical products. Refined glycerin reacts with hydrogen chloride to form dichloropropanol. Dichloropropanol and sodium hydroxide are processed to make Epichlorohydrin.	

1.3.2 Traders or Warehouses (commercially sensitive - see confidential annex for details)

1.3.3 Points of Origin (commercially sensitive - see confidential annex for details)

Number of Points of Origin in Scope	1
Number of Points of Origin providing more than ten metric tons per months	1
Number of Points of Origin Assessed on a Sample Basis during This Audit	1
List of Points of Origin Assessed on a Sample Basis during This Audit	

Supplier names are considered a business secret and are therefore only reported in the confidential annex.

1.4 GHG Intensity

Advanced products from bio-based feedstocks (Category I)			
Advanced Product:	Bio-based epichlorohydrin	GHG:	Confidential – available upon request to ABT; See Appendix 6
For advanced products from bio-based feedstocks: if and how the CO2 uptake was accounted for (see RSB-STD-02-001)			N/A

1.5 Advanced Product Information

If the feedstock for a batch of RSB certified Advanced Product is not wholly but only partly RSB-certified: state the amount of certified feedstock in relation to the total mass of the feedstock for the appropriate category:	
For Category I products:	
State the bio-based carbon or bio-based mass content that can be ensured at any time of the production process	100%
State the standard used for measuring or calculating the biobased carbon or bio-based mass content	ASTM D6866-20 Method B (AMS)

2.0 EVALUATION PLANNING & PROCESS

2.1 Audit Team

Auditor Name:	Robert Earley	Auditor role:	Lead Auditor
Qualifications: Robert Earley is an auditor of RSB and ISCC certifications, and has been trained in ISO 9001:2015 auditing, and is currently the technical manager of the RSB certification program at SCS Global Services. Prior to joining SCS Global Services, Robert was the Transport Program Manager of Manila-based Clean Air Asia, promoting clean and efficient freight and logistics across Asia, and before that was the Director of the Clean Transportation Program at the Innovation Center for Energy and Transportation (iCET), which developed standards for lifecycle GHG emissions assessment for biofuels in China, and which became the first member of the RSB in China. Mr. Earley, who has lived in China since 2005 and is fluent in Mandarin Chinese, studied environmental science at the University of Calgary and Urban and Regional Planning at the University of Waterloo in Canada. His coursework at the University of Calgary included impacts of agriculture and conservation in agricultural areas in southern Alberta.			
Auditor Name:	Marcos Gallastegui	Auditor role:	Team Auditor (Trainee)
Qualifications: Marcos Gallastegui is an auditor in training for the RSB program. He is a certified ISCC, Renewable Wool Standard, 2BSvs, RTRS, RSPO and Bonsucro amongst other standards. A resident of Argentina, Marcos is fluent in Spanish, English and Portuguese. He has a degree in Agricultural Engineering at Buenos Aires University.			
Auditor Name:	Eddie Gomez	Auditor role:	Team Auditor
Qualifications: Eddie is an Agronomist and has a master’s and Ph.D. degrees in Food, Agricultural and Biological Engineering with emphasis in sustainable production of biomass and renewable energy sources. Since 2016 has been involved with certification of agricultural operations against sustainability standards in Latin America. Eddie is currently a lead auditor of the Bonsucro Certification System, the International Sustainability and Carbon Certification (ISCC), RSB, the Alliance for Water Stewardship (AWS) and the Low Carbon Fuels Standard LCFS from CARB.			
Auditor Name:	Justin Richter	Auditor role:	GHG Verifier
Qualifications: Dr. Richter is a Life Cycle Analysis practitioner and Supply Chain researcher in the areas of biofuels, renewable energy, advanced products and social impacts. He holds GHG certification from ISCC. Dr. Richter has received a Ph.D. in Environmental and Ecological Engineering from Purdue University (West Lafayette, IN, USA)			

2.2 Evaluation Schedule and Extent of Audit

2.2.1 RSB Audit types Matrix

	Low risk class	Medium risk class	High risk class
Certificate validity	5 years	3 years	2 years
Main audit	Every 5 years	Every 3 years	Every 2 years
Surveillance audit	Annual	Annual	Annual

2.2.2 Methodology and Strategies Employed

SCS deploys interdisciplinary teams with expertise in agriculture, ecology, forestry, social sciences, natural resource economics, and other relevant fields to assess an Operator’s compliance to RSB standards and policies. Evaluation methods include document and record review, implementing sampling strategies to visit a broad number of site and facility types, observation of implementation of management plans and policies, and stakeholder analysis. When there is more than one team member, team members may review parts of the standards based on their background and expertise. On the final day of an evaluation, team members convene to deliberate the findings of the assessment jointly. This involves an analysis of all relevant site observations, stakeholder comments, and reviewed documents and records. Where consensus between team members cannot be achieved due to lack of evidence, conflicting evidence or differences of interpretation of the standards, the team is instructed to report these in the certification decision section.

2.2.3 Evaluation Itinerary and Activities

Time	Element/Activity	Personnel Involved
Day 1 8 October 2020	Microsoft Teams or other online meeting software Lead auditor: Robert Earley	
8:30 a.m.	Opening Meeting and General Requirements <ul style="list-style-type: none"> – Introduction to certification program and assessment process to on-site staff – Review of scheduled activities – Review of RSB Procedures; confirm roles, responsibilities and processes – Confirmation of scope of products to be certified – Clarification of all suppliers; i.e. glycerine, transportation, storage – Client to outline production process and overall process flow – Review site map(s) – Update from client and any social or environmental changes to the operation – Follow up on implementation of any corrective action plans from desk audit or previous initial field audit: <ul style="list-style-type: none"> ○ 2019-1: System to maintain knowledge, competencies, skills and systems for complying with RSB standards 	Management

	<ul style="list-style-type: none"> ○ 2019-3: Implementation of mass-balance chain of custody system ○ 2019-5: GHG LCA (review later in the audit) ○ 2019-8: Certification status of palm oil glycerine ○ 2019-9: Method of determining the bio-based carbon 	
10:00	<p>Document Review: Participating Operator/ Standards Checklist</p> <ul style="list-style-type: none"> - Review of training procedures and records - Review of Grievance Mechanism - Review of traceability method and implementation (including acquiring, handling, and forwarding sustainable material) - Analysis of material balances and records - Review of records 	
1:00	Lunch Break	
2:00 p.m.	<p>Document Review: Participating Operator/ Standards Checklist (con't)</p> <ul style="list-style-type: none"> - Review of GHG inputs - Communications and Claims - Requirement for Advanced Fuels/ Advanced Products <p>Document Review: Compliance with Principles and Criteria and ESMP monitoring</p>	Management
5:30	Initial closing meeting	
	End of Day 1	

Day 2 31 August 2021	<p>Point(s) or Origin (Name of Point of Origin in Confidential annex)</p> <p>Microsoft Teams or other online meeting software</p> <p>Lead auditor: Marcos Gallastegui (trainee)</p> <p>Supervising auditor: Eddie Gomez</p>	
1:00 p.m.	<p>Opening Meeting and General Requirements</p> <ul style="list-style-type: none"> - Introduction to certification program and assessment process to on-site staff - Confirm roles, responsibilities and processes - Confirmation of scope of products to be certified 	Point of Origin staff
1:30 p.m.	<p>Document Review: Participating Operator/ Standards Checklist</p> <ul style="list-style-type: none"> - Review of eligibility of material - Review of process flows and feasibility of production - Review of declarations of outgoing material - Review of feedstock specific requirements, if applicable 	Point of Origin staff

2:45	Report Writing Auditor(s) take time to consolidate notes and confirm audit findings	Auditor
3:00 p.m.	Findings – Presentation of all non-compliances and opportunities for improvement	Management Point of Origin staff

Day 3 2 September, 2021	Storage Facility audit (name in confidential annex) Microsoft Teams or other online meeting software Auditor: Robert Earley	
8:30 a.m.	Opening Meeting and General Requirements – Review of assessment process	Management
9:00 a.m.	Document Review: Participating Operator/ Standards Checklist – Review of training procedures and records – Review of traceability method and implementation (including acquiring, handling, and forwarding sustainable material) – Analysis of material balances and records – Requirement for Advanced Fuels/ Advanced Products	Management

10:30 a.m.	Closing Meeting – Discussion of any remaining issues, review of Point of Origin audit and data presented in the interim. – Presentation of all non-compliances and opportunities for improvement – Fix timetables for corrective actions – Reiterate SCS appeal policy – Questions	Management
	End of audit	

2.3 Evaluation of Management System

2.3.1 Capacity of the participating operator to implement its management systems

See confidential annex

2.3.2 Evaluation of RSB compliance claims and use of RSB trademarks

Are all claims used in line with scope and allowed claims per RSB-PRO-50-001 or Advanced Product Standard, as applicable?	Yes
Does Operator use RSB trademarks on off-product or on-product claims?	No

3.0 RISK ASSESSMENT RESULTS

Highest Risk Class will Apply for the Participating Operator

Site	Based on the most recent self-risk assessment the PO's risk assessment results are (The number):	Corresponding risk class (low, medium, high):	Date of risk assessment (must be no older than 3 months from the audit date)	Auditor's assessment of Operator's risk
Advanced Biochemical (Thailand) Co. Ltd	0	Low	30 August, 2021	Agrees with PO's assessment based on an analysis of the Risk Assessment Tool responses
Overall Risk				Low

4.0 RESULTS OF THE EVALUATION

4.1 Process of Determining Compliance

4.1.1 Structure of Standard and Degrees of Non-Compliance

RSB-accredited biofuel standards consist of a three-level hierarchy: the principle, the criteria that correspond to that principle, and then the performance indicators that elaborate upon each criterion. Consistent with SCS Sustainable Biofuels Program evaluation protocols, the team collectively determines whether or not the subject operation is in compliance with every applicable indicator of the relevant sustainable biofuel standard. Each non-compliance must be evaluated to determine whether it constitutes a major or minor non-compliance at the level of the associated criterion or sub-criterion. Not all indicators are equally important, and there is no simple numerical formula to determine whether an operation is in non-compliance. The team therefore must use their collective judgment to assess each criterion and determine if the Operator is in compliance. If the Operator is determined to be in non-compliance at the criterion level, then at least one of the applicable indicators must be in major non-compliance.

4.1.2 Interpretations of Findings

Major Non-compliances, either alone or in combination with non-compliances of other applicable indicators, result (or are likely to result) in a fundamental failure to achieve the objectives of the relevant RSB Criterion. These non-compliances must be resolved or closed out before a certificate can be awarded. If Major NCs arise after an operation is certified, the timeframe for correcting these non-compliances is typically no more than three months. Certification is contingent on the operator’s response to the NCs within the stipulated time frame.

Minor Non-compliances are typically limited in scale or can be characterized as an unusual lapse in the system. Most minor NCs are the result of a non-conformance at the indicator-level. Non-compliances must be closed out within a specified time period of award of the certificate.

Opportunity for Improvement is an observation made which does not fully impact compliance but could potentially affect the PO’s ability to comply with RSB requirements in the future.

4.1.3 Major Non-compliances

<input type="checkbox"/>	No major NCs were issued to the Operator during the evaluation. Any minor CARs from previous surveillance audits have been reviewed and closed prior to the issuance of a certificate.
<input checked="" type="checkbox"/>	Major NCs were issued to the Operator during the evaluation, which have all been closed to the satisfaction of the audit team and meet the requirements of the standards. Any minor CARs from previous surveillance audits have been reviewed and closed prior to the issuance of a certificate.
<input type="checkbox"/>	Major NCs were issued to the Operator during the evaluation and the Operator has not yet satisfactorily closed all major NCs.

4.1.4 Non-compliances and Current Status

Summary of Non-compliances and Current Status				
Non-compliance Number	Type of Non-compliance	Relevant RSB Standard & Indicator No.	Summary of Finding and Evidence Collected	Status of Non-compliance (Open/Closed)
2019-1	Minor	P.O. Checklist 2.1	Evidence was not provided at the time of audit that The PO has a system in place to establish and maintain necessary knowledge, competencies, skills and systems for complying with RSB Standards and procedures RCA submitted Evidence provided: Now there is a specific training material for RSB at ABT, entered into the training	Closed 10/8/20

			<p>catalogue. Training already done – 10th July 2020 in Rayong, Records have been presented for participation, and the data has been entered in the data system. 17 July training in BKK. Trained by Ms Kongmunwattana</p>	
2019-3	Observation	P.O. Checklist 5.1	<p>The P.O. Chain of Custody system cannot track sustainable materials in line with the RSB standard, particularly the Standard for Advanced Products</p> <p>Update: Mass balance CoC system has been successfully implemented with tracking system in place and demonstrated</p>	Closed 9/2/21
2019-4	Observation	P.O. Checklist 8.2	<p>The product segregation chain of custody system is currently unsuitable given that uncertified palm oil glycerine is blended with other eligible glycerines.</p> <p>Update: Mass balance CoC system has been successfully implemented with tracking system in place and demonstrated with soy-based bioglycerine in use</p>	Closed 9/2/2021
2019-5	Observation	P.O. Checklist 9.3.2 / P.O. Checklist 14.3 / P&C 3.a.1	<p>The LCA for the product is out-of-date and some aspects of the data are missing; the GHG calculations will be updated over the next 6 months.</p> <p>The records of measurements used and data sources for the LCA were not available at the time of the audit. Note that this was not a requirement until the Standard for Advanced Products was approved in Dec 2018.</p> <p>Update: LCA completed by Sphera, Inc in February 2021 includes all relevant emission sources and complies with RSB requirements.</p>	Closed 9/2/21
2019-6	Observation	P.O. Checklist 11.2 / P.O. Checklist 14.5	<p>The GHG intensity of the product is not listed on the product delivery documentation template</p>	Closed 9/2/21

			Update: RSB notes that this information may be noted as confidential given that the claim on the Proof of Sustainability is very conservative “This product complies with Minimum 10% GHG emission reduction of the Advanced Products standard”	
2019-7	Observation	P.O. Checklist 12.5.3 (RSB-STD-01-010)	Glycerine from Vegetable Oil is a specific feedstock that could be listed on delivery materials from suppliers. As palm glycerine must be certified, the vegetable source of the oil might be listed. Update: No new deliveries have been made since previous audit.	Open
2019-8	Observation	P.O. Checklist 12.6.4 RSB-STD-01-010	Palm oil glycerine used is not currently known to be RSB, RSPO or equivalent certified Update: No palm glycerine used in the mass balance	Closed 9/2/2021
2019-9	Observation	P.O. Checklist 14.13.5, 14.13.6	The methodology of determining the bio-based carbon is not stated on the template delivery note Update: The methodology of determining bio-based content is noted on the template delivery note: ASTM D6866-20 Method B. However, no shipments have been made of RSB certified material in 2020 or up to the time of closure.	Closed 9/2/21
2020-1	Major	RSB-PRO-70-001 V3.9 H1.4.1	The operator did not complete the surveillance audit within 12 months of the previous audit. The certificate was suspended. An audit completion on 30 August 2021 is adequate to resolve this NC and lift the suspension	Closed 31 August, 2021
2020-2	Major	RSB-STD-01-010 G.2.2.4	The operator did not present supporting evidence to demonstrate plausibility of point of origin to provide adequate feedstock. An audit of the point of origin on 31 August 2021 determined plausibility.	Closed 31 August, 2021

2020-3	Observation	P.O. Checklist 12.5.4	Only one Point of Origin in scope, and quarterly incoming RSB-eligible glycerine was reported during audit, but traceability system can be prepared to support more than one point of origin in chain of custody.	open
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5.0 CERTIFICATION DECISION

Certification Recommendation		
For Initial and Re-certifications: Operator to be awarded RSB certification subject to the minor non-compliances stated in Section 4.2.5.	Yes <input type="checkbox"/> No <input type="checkbox"/>	
For Surveillance Audits: Operator is to continue as an RSB certified Participating Operator subject to the minor non-compliances stated in Section 4.2.5.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
The SCS evaluation team makes the above recommendation for certification based on the full and proper execution of the SCS Responsible Biofuels Program evaluation protocols. If certification is recommended, the Operator has satisfactorily demonstrated the following without exception:		
Operator has addressed any Major NC(s) assigned during the evaluation.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No Major NCs issued <input type="checkbox"/>	
Operator has demonstrated that their system of management is capable of ensuring that all of the requirements of the applicable standards are met over the sites and facilities covered by the scope of the evaluation.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Operator has demonstrated that the described system of management is being implemented consistently over the sites and facilities covered by the scope of the certificate.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Comments and/or details of any issue which was difficult and/or impossible to evaluate:		
To be completed by Certification Decision-Making Entity	Technical Review by: If different to decision-maker	Inna Kitaychik
	Certification decision:	With successful completion of the 2020 surveillance audit, the certificate suspension is lifted and the operator may continue its certification according to the standards listed in section 1.2.2
	Certification decision by:	Robert Earley
	Date of decision:	8 September, 2021
	Surveillance schedule:	Next surveillance audit to be conducted by 8 October, 2021
Notes:		

SECTION B – APPENDICES (CONFIDENTIAL)

Appendix 1 – Certification Standard Conformance Table

Note: RSB Excel Checklists are submitted alongside this report.

Appendix 2 – Results of Evaluation of Operator Management System(s)

<p>General Description of Management System(s):</p>	<p>ABT operations were included in Vinythai’s overall integrated management system, which was administered by Vinythai’s Total Quality Management Division Manager who is entitled as the company’s Integrated Management Representative reporting to the Management of Vinythai. The integrated management system was certified to, and maintains the following standards: ISO 9001, ISO 14001, ISO 45001, GMP & HACCP, HALAL, Kosher, RSB, RSPO, Product Stewardship Management, Process Safety Management and Transport Safety Management. The plant maintained an environmental, safety, and quality monitoring program that included occupational health, external environment and safety parameters that are reported on and reviewed regularly. The management system was found to be appropriate for a chemical manufacturing site. Vinythai and ABT had designated personnel with roles and responsibilities for management of health, safety, environmental and security risks, with a regular training program to ensure competence. In addition to third-party certifications, Vinythai and ABT maintained an internal audit/business performance improvement program. Management responsibilities were delegated to specialized personnel. The company maintains multiple channels for grievance, both for staff as well as for external stakeholders that is entered into the integrated management system and reviewed for performance improvement.</p>
<p>Implementation:</p>	<p>The operator management system is professionally and consistently implemented. RSB is one compliance system amongst many at the company, and the habits of standard implementation are well-practiced.</p>
<p>Financial and Technical Resources:</p>	<p>There is a comprehensive team of competent staff covering 7 different departments and led by the Vice President of Purchasing and Supply Chain and Manager of ECH Sales and Marketing. Along with other ISO standards, these individuals are responsible for the operation of the management system at various points. Sales & Marketing Dept has set annual budget for RSB License Fee, Audit Fee & other miscellaneous, and it is clear that there are adequate resources, given that documents are well-organized, that the Operator is aware of its obligations and requirements, and that it is constantly upgrading its management system to meet needs</p>

	related both to RSB as well as to other issues such as having new owners.
Human Resources Available:	There are currently 586 staff at Vinythai across its various businesses that can potentially contribute to the ECH businesses, plus 6 people in sales and marketing at an office in Bangkok. Specifically, in ABT's production chain, there are 54 staff.
Qualifications:	ABT and Vinythai personnel were knowledgeable, cooperative and well-organized to the aim of achieving the company's mission. There were no changes in management approach evident during the audit in October 2020.

Appendix 3 – Audit Participants (not including stakeholders)

List of Operator Staff Consulted

Name	Title	Contact	Consultation method
Pan-usa Kongmunwattana	Management Representative	Panusa.kong@agc.com	Online meeting
Boonchana Mangkonkarn	Vice President Supply Chain		
Prakit Sangthonganotai	ECH Business Manager		
Ninlawan Boontawee	Business intelligence (LCA)		
Nattikarn Moonpho	Strategic Raw Materials Purchasing & Planning Engineer		
Chokpinid Lomkamdee	ECH Production Dept. Manager		
Natthamol Seanarmart	Senior TQM Supervisor		
Matías Calvani, Renova	Logistics	gestion.integrada@vice ntin.com.ar	Online meeting

Appendix 4 – Documentation Submitted by Operator

18-06-11 Amendment to PO Agreement_ABTSigned(1).pdf	ABT RSB Self Assessment 2020_Completed.xlsx
PO Agreement ABT-signed(1).pdf	VNT_Annual Report 2019.pdf
Catalogue Template – RSB Certification for ABT.pdf	RSB training -10-07-2020.pdf

RSB training -17-07-2020.pdf	RSB Risk Assessment Tool Version3_AB Reviewed 18 Aug 20.xlsx
RSB Risk Assessment Tool_v4.0_AB Reviewed 30.08.21	ABT-E-MKT-06 RSB Chain of Custody (Traceability)_5OCT20.pdf
Draft_LCA Report ABT Epichlorohydrin LCA Study_24 Feb 2021.pdf	Extract Requirements of RSB STD for Advanced Products – Category 1b (Mitigate Climate Change).xlsx
ABT-E-MKT-7-RSB Communications Claims.pdf	Beta-562209 test report_2020.07.07.pdf
Supplier Sustainability Questionnaire – RENOVA AR.xlsx	VNT-E-SCM-01 Purchasing of Glycerine.pdf
Management system Policy.pdf	P9.2_Permit for Utilization and Operations in Industrial Estate Renew No.2.pdf
ABT2020_RSB-GUI-01-002-02_Screening-Tool.pdf	Announcement of Working Team RSB.pdf
AorKor5106.2-0619_Cert of No Complain ABT_IEAT (9 Jul 2020).pdf	Management system manual.pdf
Management system Policy.pdf	RorYor 52205-3011_Cert of No Complain VNT&ABT_MTP (1 Jul 2020).pdf
Appointment of Welfare Committee 2020- 2021.pdf	Minute of Meeting for yearly meeting Contractors 2019.pdf
ABT_Attestation Letter for ISO 14001-2015.pdf	P7.18 ABT Green Industry Level 4_9Jul2020.pdf
P7.21_AB ECO Factory Certificate_5MAR2021.pdf	2020-08-14-WaterSituationAndMitigation.pdf
ABT Water Management Plan 2019 – 1H20.pdf	ABT Air Management Plan 2019 – 1H20.pdf
Envi Monitoring Result_EIA (2016-2020) – ECH.pdf	ABT Waste Management Plan 2019 – 1H20.pdf
2010116_LCA Input Output Data verification.xlsx	Renova Crude & Refined Glycerine Mass Balance 2019.xlsx
ABT RSB Chain of Custody_9JUL21.pdf	Renova R-GLC Goods Receipt 2H'20 Record.pdf
ECH production H2 2020.pdf	ECH Production Figure_30.06.2020.pdf
ECH Production Figure_31.12.2020.pdf	2H 2020 GLC GR.pdf
ABT Input-Output Account Booking Diagram.pdf	ABT MB Q32020.pdf
ABT MB Q42020.pdf	Tank Farm Storage and Service Agreement between ABT TTT Extract.pdf
RSB Chain of Custody (Traceability)_9JUL21.pdf	ABT Tank setting and window available volume.pdf
Preventative Maintenance Record Manual Dip for Automatic Tank Gauging Calibration T401	Preventative Maintenance Record Manual Dip for Automatic Tank Gauging Calibration T402
Preventative Maintenance Record Manual Dip for Automatic Tank Gauging Calibration T403	Preventative Maintenance Record Manual Dip for Automatic Tank Gauging Calibration T404
ABT Sales & Production record 1H2020.pdf	

Appendix 5 – Production Data / Throughput

Annual throughput of previous 12 months (For all 2020) <i>(Can be moved to appendix if certain information is confidential)</i>	
Feedstock Input (Metric Ton)	104240 MT
Final/Primary Product Output (Metric Ton)	101054 Mt
Intermediate/by-product Output (Metric Ton)	0
% output yield compared to input material (total output/total input)	1.05
Amount sold as RSB certified (tons)	49289

Appendix 6 – GHG emissions

Advanced products from bio-based feedstocks (Category I)			
Advanced Product:	Bio-based epichlorohydrin	GHG:	1.64 kg Co2 eq/ dry kg ECH
For advanced products from bio-based feedstocks: if and how the CO2 uptake was accounted for (see RSB-STD-02-001)			CO2 uptake was not accounted for

Appendix 7 – Points of Origin in scope

Number of Points of Origin in Scope	1
Number of Points of Origin providing more than ten metric tons per months	1
Number of Points of Origin Assessed on a Sample Basis during This Audit	1
List of Points of Origin Assessed on a Sample Basis during This Audit	
1. Name	Renova (San Lorenzo Site)
Location/City	Calle 11 y Scapigliatti (ZC 2200), San Lorenzo, Santa Fe, Argentina
Geographic location (Latitude & Longitude)	-32.5839182508, -60.7860706306
Material produced:	Refined glycerine

Appendix 8 – Storage Facilities in scope

1. Name	Thai Tank Terminal
Location/City	19 I-1 Road, Map Ta Phut, Muang Rayong, Rayong Province 21150 Thailand
Geographic location (<i>Latitude & Longitude</i>)	12.661238, 101.137260
Material stored:	(Non-RSB eligible) Refined Glycerine and Epichlorohydrin. Terminal was audited to confirm mass balance calculation.