

A Guide to the use of Animal Feed Additives for Feed Producers and Veterinarians

Handbook of

# FEED ADDITIVES 2017

Medicinals • Coccidiostats • Enzymes • Micro-organism Products  
Vitamins • Pigmenters • Acidifiers • Antioxidants • Mould Inhibitors



## Bright Science, Brighter Living™

Innovative solutions that make a difference to animal performance, health and welfare

■ VITAMINS ■ ENZYMES ■ EUBIOTICS ■ CAROTENOIDS ■ PREMIXES

For details of our product range, see page

HEALTH - NUTRITION - MATERIALS



# Handbook Of Feed Additives 2017

**Panagiota Florou-Paneri,Efterpi  
Christaki,Ilias Giannenas**



## **Handbook Of Feed Additives 2017:**

**Handbook of Feed Additives 2001** Andrew D. Mounsey,2000      **Handbook of Feed Additives 2006** Simon P. Mounsey,2006-03      **Feed Additives** Panagiota Florou-Paneri,Efterpi Christaki,Ilias Giannenas,2019-09-19 **Feed Additives Aromatic Plants and Herbs in Animal Nutrition and Health** explores the use of aromatic plants and their extracts including essential oils in animal nutrition It provides details about the development of bacteria resistance to antibiotics All chapters provide a holistic approach on how aromatic plants can provide an efficient solution to animal health also covering the main categories of animals including poultry pigs ruminants and aquaculture This book represents an up to date review of the existing knowledge on aromatic plants both in vitro and in vivo and the basis for future research Covers different categories of animals and novel feed trends with functional properties Examines a variety of natural sources based on plant functional substances to promote antioxidant antimicrobial antiviral anti inflammatory properties and digestive stimulations Explores the chemistry and mechanism of action of plant extracts in animal nutrition Includes sustainable solutions for the use of natural additives as growth promoters      **2010 Handbook of Feed Additives** Simon Mounsey Ltd.,2010-03-15      **Feed Additives and Supplements for Ruminants** M. S. Mahesh,Vinod Kumar Yata,2024-07-05 This book comprehensively reviews various feed additives and supplements that are employed for ruminant production and health It discusses important strategies of using additives and supplements through rumen fermentation immunomodulation nutrient utilization and cellular metabolism that lead to enhanced milk production body weight gain feed efficiency and reproduction The book also presents the importance of nutritional supplements such as B vitamins advances in mineral nutrition role of lesser known trace elements protected amino acids slow release nitrogen and rumen buffers on performance and health of ruminants In addition the book explores strategies for improving environmental stewardship of ruminant production by minimizing carbon footprint associated with greenhouse gas emissions enhancing ruminant derived food safety through mycotoxin binders exogenous enzymes probiotics flavours biochar ionophores seaweeds and natural phytogetic feed additives with an emphasis on plant secondary metabolites tannins saponins and essential oils etc It also details information on silage additives additives and supplements employed in successful calf rearing transition cow management as well as to ameliorate the adversity of heat stress in ruminants Overall the book is valuable for veterinary and animal science researchers animal producers nutrition specialists veterinarians and livestock advisors      **Sustainable Use of Feed Additives in Livestock** Georgios Arsenos,Ilias Giannenas,2023-12-28 This book offers a comprehensive collection of cutting edge research on feed additives for a sustainable animal production including insects and aquaculture In five clearly structured sections the sources of feed additives details on their biochemistry feed security as well as specific applications for individual farm animal species livestock health and product characteristics meat milk and eggs find attention International expert authors provide a full description on the use of aromatic plants extracts and essential oils as feed additives alone or in combination with functional

feeds of different categories Readers will explore the potential of feed additives to tackle environmental issues Practical examples include the use of local feedstuffs in combination with herbal additives and enzymes Emphasis is placed on the consequences of using local feed sources versus imported feedstuffs on global warming potential primary energy use nutrient excretion and the feedadditive influence on lessening the pollution from animal operations The results presented will support realization of the Sustainable Development Goals in particular SDG 12 which stands for Responsible Consumption and Production worldwide The use of novel and different feed additives can be an important tool to enhance sustainability support productivity and match increased food demands around the globe Animal production depends on feed efficiency to sustain growth and profitability Along these lines the present volume is an essential reading for all future oriented veterinarians animal nutritionists agricultural scientists and moreover the feed food and plant industry

**Handbook of Feed Additives 2009** Simon P. Mounsey,2009 *Handbook of Feed Additives 2003 ,2002* **Handbook of Feed Additives 2011** Simon P. Mounsey,2011 [Handbook of feed additives 1999/2000](#) Andrew D. Mounsey,1999 [Handbook of Medicinal Feed Additives 1996/1997](#) Andrew D. Mounsey,1996 **2008 Handbook of Feed Additives** Simon Mounsey Ltd.,2008-02-01 **Handbook of Feed Additives 2005** Simon P. Mounsey,2005 **Friction Based Additive Manufacturing Technologies** Sandeep Rathee,Manu Srivastava,Sachin Maheshwari,T.K. Kundra,Arshad Noor Siddiquee,2018-04-17 Currently most of the major commercial metal additive manufacturing MAM techniques rely on liquid phase processing The liquid to solid phase transformations in these techniques results in microstructural issues and defects which in turn tantamount to inferior properties of fabricated build Friction based additive manufacturing technologies are solid state processing techniques which work on the principles of friction based joining processes and layer by layer additive manufacturing This book primarily addresses the basic understanding of seven friction based additive manufacturing techniques These techniques include additive manufacturing methods based on rotary friction welding linear friction welding friction deposition friction surfacing friction stir additive manufacturing friction assisted seam welding and additive friction stir The principle of operations benefits limitations and recent developments of each technique has been described It covers potential and probable applications of each technique through review of various experimental studies Features Targets friction based solid state additive manufacturing of metallic materials Describes principle of operation of seven friction based additive manufacturing techniques Reviews latest trends of these processes via experimental studies Describes benefits and limitations of each technique Covers current and probable applications of these techniques **Handbook of Feed Additives 2004** Simon P. Mounsey,2004 *Testing and Analysis of GMO-containing Foods and Feed* Salah E. O. Mahgoub,Leo M.L. Nollet,2019-01-15 An increasing number of genetically modified organisms GMOs continues to be produced every day In response to the concerns raised by the development of GMOs and their incorporation in foods and feed guidelines and regulations to govern and control the use of GMOs and their products have been enacted These

regulations necessitated the design of methods to detect and analyse the presence of GMOs or their products in agriculture produce food and feed production chains Design of techniques and instruments that would detect identify and quantify GM ingredients in food and feed will help inspection authorities to relay reliable information to consumers who might be concerned about the presence of GM ingredients Information generated by detection of GMOs in food and feed would be helpful for setting regulations that govern the use of GM components as well as for labeling purposes Qualitative detection methods of GM DNA sequences in foods and feeds have evolved fast during the past few years There is continuous need for the development of more advanced multi detection systems and for periodic updates of the databases related to these systems Testing and Analysis of GMO containing Foods and Feed presents updates and comprehensive views on the various methods and techniques in use today for the detection identification and quantification of GMOs in foods and feed The eleven book chapters cover recent developments on sample preparation techniques immunoassays methods and the PCR technique used in GMO analysis the use of biosensors in relation to GMO analysis the application of nucleic acid microarrays for the detection of GMOs validation and standardization methods for GMO testing in addition to the type of reference material and reference methods used in GMO testing and analysis Some of the ISO standards designed for identifying and detecting the presence of GM material in foods are also presented in the book **Handbook of Feed Additives** ,1998 *Nutraceuticals in Veterinary Medicine* Ramesh C. Gupta,Ajay Srivastava,Rajiv Lall,2019-05-21 This unique work compiles the latest knowledge around veterinary nutraceuticals commonly referred to as dietary supplements from ingredients to final products in a single source More than sixty chapters organized in seven sections collate all related aspects of nutraceutical research in animal health and disease among them many novel topics common nutraceutical ingredients Section I prebiotics probiotics synbiotics enzymes and antibacterial alternatives Section II applications of nutraceuticals in prevention and treatment of various diseases such as arthritis periodontitis diabetes cognitive dysfunctions mastitis wounds immune disorders and cancer Section III utilization of nutraceuticals in specific animal species Section IV safety and toxicity evaluation of nutraceuticals and functional foods Section V recent trends in nutraceutical research and product development Section VI as well as regulatory aspects for nutraceuticals Section VII The future of nutraceuticals and functional foods in veterinary medicine seems bright as novel nutraceuticals will emerge and new uses of old agents will be discovered International contributors to this book cover a variety of specialties in veterinary medicine pharmacology pharmacognosy toxicology chemistry medicinal chemistry biochemistry physiology nutrition drug development regulatory frameworks and the nutraceutical industry This is a highly informative and carefully presented book providing scientific insight for academia veterinarians governmental and regulatory agencies with an interest in animal nutrition complementary veterinary medicine nutraceutical product development and research *Transactions on Intelligent Welding Manufacturing* Shanben Chen,Yuming Zhang,Zhili Feng,2019-02-06 The primary aim of this volume is to provide researchers and engineers from both academia and industry

with up to date coverage of recent advances in the fields of robotic welding intelligent systems and automation It gathers selected papers from the 2018 International Conference on Robotic Welding Intelligence and Automation RWIA 2018 held Oct 20 22 2018 in Guangzhou China The contributions reveal how intelligentized welding manufacturing IWM is becoming an inescapable trend just as intelligentized robotic welding is becoming a key technology The volume is divided into four main parts Intelligent Techniques for Robotic Welding Sensing in Arc Welding Processing Modeling and Intelligent Control of Welding Processing and Intelligent Control and its Applications in Engineering *Sustainable Feed Ingredients and Additives for Aquaculture Farming* Ndakalimwe Naftal Gabriel, Kenneth Prudence Abasubong, Victoria Ndinelago Erasmus, Manoj Tukaram Kamble, 2024-09-18 This book describes sustainable aquaculture ingredients and additives uncovered in Africa and Asia It also discusses current aquaculture research practices on alternative protein carbohydrate lipid mineral vitamin and feed additives It further demonstrates how aquaculture practices could be a feasible and cost effective venture capable of producing products in an environmentally sustainable manner The aquaculture industry is suffering from scarcity of sustainable feedstuffs particularly protein and oil components which play an important role in the nutritional requirements of many aquaculture species The availability of components such as fish meal fish oil and other synthetic feed additives has rendered aquaculture operations unsustainable particularly in terms of cost Therefore the quest to replace such unsustainable components is developing in Africa and Asia This book helps aquaculture farmers researchers the aquafeed industry investors students lawmakers and other stakeholders in the aquaculture field to comprehend scientific based sustainable feed ingredients and additives in aquaculture from an African and Asian viewpoint

## **Handbook Of Feed Additives 2017** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Handbook Of Feed Additives 2017**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

[https://py.bijouxmedusa.com/results/publication/default.aspx/Entrepreneurs\\_79\\_2004\\_Instagram\\_Growth\\_Case\\_Study\\_For\\_Entrepreneurs.pdf](https://py.bijouxmedusa.com/results/publication/default.aspx/Entrepreneurs_79_2004_Instagram_Growth_Case_Study_For_Entrepreneurs.pdf)

### **Table of Contents Handbook Of Feed Additives 2017**

1. Understanding the eBook Handbook Of Feed Additives 2017
  - The Rise of Digital Reading Handbook Of Feed Additives 2017
  - Advantages of eBooks Over Traditional Books
2. Identifying Handbook Of Feed Additives 2017
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Handbook Of Feed Additives 2017
  - User-Friendly Interface
4. Exploring eBook Recommendations from Handbook Of Feed Additives 2017
  - Personalized Recommendations
  - Handbook Of Feed Additives 2017 User Reviews and Ratings

- Handbook Of Feed Additives 2017 and Bestseller Lists
- 5. Accessing Handbook Of Feed Additives 2017 Free and Paid eBooks
  - Handbook Of Feed Additives 2017 Public Domain eBooks
  - Handbook Of Feed Additives 2017 eBook Subscription Services
  - Handbook Of Feed Additives 2017 Budget-Friendly Options
- 6. Navigating Handbook Of Feed Additives 2017 eBook Formats
  - ePub, PDF, MOBI, and More
  - Handbook Of Feed Additives 2017 Compatibility with Devices
  - Handbook Of Feed Additives 2017 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Handbook Of Feed Additives 2017
  - Highlighting and Note-Taking Handbook Of Feed Additives 2017
  - Interactive Elements Handbook Of Feed Additives 2017
- 8. Staying Engaged with Handbook Of Feed Additives 2017
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Handbook Of Feed Additives 2017
- 9. Balancing eBooks and Physical Books Handbook Of Feed Additives 2017
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Handbook Of Feed Additives 2017
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Handbook Of Feed Additives 2017
  - Setting Reading Goals Handbook Of Feed Additives 2017
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Handbook Of Feed Additives 2017
  - Fact-Checking eBook Content of Handbook Of Feed Additives 2017
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

### **Handbook Of Feed Additives 2017 Introduction**

In the digital age, access to information has become easier than ever before. The ability to download Handbook Of Feed Additives 2017 has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Handbook Of Feed Additives 2017 has opened up a world of possibilities. Downloading Handbook Of Feed Additives 2017 provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Handbook Of Feed Additives 2017 has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Handbook Of Feed Additives 2017. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Handbook Of Feed Additives 2017. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Handbook Of Feed Additives 2017, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices

have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Handbook Of Feed Additives 2017 has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

### **FAQs About Handbook Of Feed Additives 2017 Books**

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Handbook Of Feed Additives 2017 is one of the best book in our library for free trial. We provide copy of Handbook Of Feed Additives 2017 in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Handbook Of Feed Additives 2017. Where to download Handbook Of Feed Additives 2017 online for free? Are you looking for Handbook Of Feed Additives 2017 PDF? This is definitely going to save you time and cash in something you should think about.

### **Find Handbook Of Feed Additives 2017 :**

*entrepreneurs 79-2004 Instagram growth case study for entrepreneurs*

**Instagram growth ideas for startups 79-786 Instagram growth review USA**

*tips for entrepreneurs 79-32 Instagram growth tools America 79-1149*

*demand step by step for entrepreneurs 79-2722 print on demand step by*

*79-1762 cloud computing comparison for creators 79-350 cloud computing*

[minimalist lifestyle step by step United States 79-1722 minimalist explained for creators 79-752 personal finance for beginners America learning basics step by step United States 79-82 machine learning basics dropshipping business strategies United States 79-329 dropshipping entrepreneurs 79-65 resume writing explained America 79-1297 resume 79-1112 small business ideas tutorial USA 79-778 small business ideas remote work case study for entrepreneurs 79-2272 remote work case study for startups 79-1987 sustainable living tutorial for creators 79-948 by step for small business 79-1821 digital marketing step by step for strategy roadmap United States 79-1143 SEO strategy roadmap for](#)

### **Handbook Of Feed Additives 2017 :**

Ford Windstar (1995 - 2003) - Haynes Manuals Detailed repair guides and DIY insights for 1995-2003 Ford Windstar's maintenance with a Haynes manual. Repair Manuals & Literature for Ford Windstar Get the best deals on Repair Manuals & Literature for Ford Windstar when you shop the largest online selection at eBay.com. Free shipping on many items ... Ford Windstar Repair Manual - Vehicle Order Ford Windstar Repair Manual - Vehicle online today. Free Same Day Store Pickup. Check out free battery charging and engine diagnostic testing while ... '95-'07 Windstar Service Manual pdf | Ford Automobiles Jan 12, 2013 — I came across a Haynes service manual for the Ford Windstar the other day. I just put it on a file host site so if anyone needs it, ... Ford Windstar 1995-98 (Chilton's Total Car Care Repair ... Included in every manual: troubleshooting section to help identify specific problems; tips that give valuable short cuts to make the job easier and eliminate ... Ford Windstar Automotive Repair Manual: Models Covered Documenting the process in hundreds of illustrations and dear step-by-step instructions makes every expert tip easy to follow. From simple maintenance to ... Ford Windstar Repair Manual Online Getting the repair info you need has never been easier. With your online Ford Windstar repair manual from RepairSurge, you can view the information on your ... Ford Windstar, 1995-2001 (Hayne's Automotive... by Chilton Total Car Care is the most complete, step-by-step automotive repair manual you'll ever use. All repair procedures are supported by detailed specifications, ... Haynes Repair Manuals Ford Windstar, 95-07 | 8949938 Includes: Step-by-step procedures. Easy-to-follow photographs. Based on a complete teardown and rebuild. Ford Windstar Manuals Get Your Ford Windstar Manuals from AutoZone.com. We provide the right products at the right prices. Wiley Plus Ch. 1-4 Quiz Answers Flashcards Study with Quizlet and memorize flashcards containing terms like Which is an advantage of corporations relative to partnerships and sole proprietorships? Financial Accounting Exam 1- WileyPlus Quizzes Flashcards Which one of the following represents

the expanded basic accounting equation?  $\text{Assets} + \text{Dividends} + \text{Expenses} = \text{Liabilities} + \text{Common Stock} + \text{Retained Earnings} + \dots$  Accounting Study Guide Test 1 - Accounting Wiley Plus... View Test prep - Accounting Study Guide Test 1 from AC 221 at Southeast Missouri State University. Accounting Wiley Plus Homework Answers Test 1 Chapter 1, ... Accounting ACC100 Quiz Chapter 1 Wiley Plus View Test prep - Accounting ACC100 Quiz Chapter 1 Wiley Plus from ACC 100 at Strayer University. Accounting ACC100 Quiz Chapter 1 Wiley Plus Multiple Choice ... Wiley Quiz Week 2 - ACCT 621 This is the Wiley assignment for week 2. wiley quiz week (chapter: assets) question of 10 view policies show attempt history your answer correct answer the. Where can you find the answers to Wiley Plus accounting ... Jul 8, 2015 — ... Wiley plus accounting homework answers to help get you started. These are a few of the questions from Accounting Test No. 2 of Wiley plus. accounting 106 chapter 2 quiz wileyplus ANSWERS TO 20-MINUTE QUIZ. 1. Step 1 - Analyze events to determine whether or not the event has an economic impact on the basic accounting equation. Step 2 ... Get Wileyplus Answers And Personalized Help Updated ... Oct 1, 2022 — Get Professional help for your wileyplus answers, for all subjects solution from experts which helps you to ace wileyplus exam by ... ACC 561 Week 1 WileyPlus Exercise 1-7, 1-8, and Quiz ... This study guide includes solutions to Wiley plus exercises 1-7, 1-8, and ... The United States uses the Financial Accounting Standards Board (FASB) to issue ... Homework problems and Exams located at WileyPlus No. Self Study Web Quizzes and Project linked in Laulima Assignment folder, Points, Points. All activities due by 11pm on last day assigned. Phuket Beach Hotel Case Analysis Corporate Finance ... Phuket Beach hotel case ; Mutually Exclusive Capital Projects ; opportunity cost of the projects. Therefore, the discount rate should be weighted average cost ; of ... Solved Phuket Beach Hotel Analysis How do I calculate the May 17, 2015 — Question: Phuket Beach Hotel Analysis How do I calculate the decrease in net room revenue? I know the answers are YR 1=1.65 million, ... Phuket Beach Hotel Final | PDF | Net Present Value Phuket Beach Resort Case AnalysisGraduate School of BusinessDe La Salle University. 11. Staff for the karaoke pub could be recruited internally because the hotel ... Case Study Phuket Beach Hotel 2 - HKU 08/15 was looking for a venue in Patong beach area for setting up another outlet, and was eyeing an. unused space owned by the Hotel. At this point, the space was ... Phuket Beach Hotel Valuing Mutually Exclusive Capital ... Following questions are answered in this case study solution: Please assess the economic benefits and costs associated with each of the capital projects. What ... Phuket Beach Case - 1683 Words PHUKET BEACH HOTEL: VALUING MUTUALLY EXCLUSIVE PROJECTS I. STATEMENT OF THE PROBLEM This is an assessment of the different costs and benefits of two ... Phuket Beach Hotel Phuket Beach Hotel: Valuing Mutually Exclusive Capital Projects (Case 27-3) The unused space of the Phuket Beach Hotel w... Phuket Beach Hotel: Valuing Mutually Exclusive Capital ... Case Analysis, Phuket Beach Hotel: Valuing Mutually Exclusive Capital Projects Case Study Solution, 1. Calculate and rank the projects according to payback ... Phuket Beach Hotel: Valuing Mutually Exclusive Capital ... The case presents sufficient information to build-cash flow forecasts for each project and to rank the mutually exclusive projects using

various evaluation ... Phuket Beach Hotel Case Study.docx Phuket Beach Hotel Case Study Finance 380 Naomi Smith  
Summary Phuket Beach Hotel is faced with the decision of funding an in-house bar with a projected ...