

SciVision Biotech Inc.

Inventor Conference 2018

Dr. Chun Chang Chen Project Manager | R&D Dept

Disclaimer



This slide contains our business prospect, financial condition and sales prognosis which are derived from our existing internal/external data analysis. The actual result of operations may differ from the expressed or implied in these forwardlooking statements due to various reasons, including but not limited to price fluctuation, competition, global economic condition, exchange rate fluctuation, market demand or other risks that beyond our control. The forward-looking statement in this release reflect the current belief of SciVision at this point and SciVision undertakes no obligation to update these statements with new information or future events.

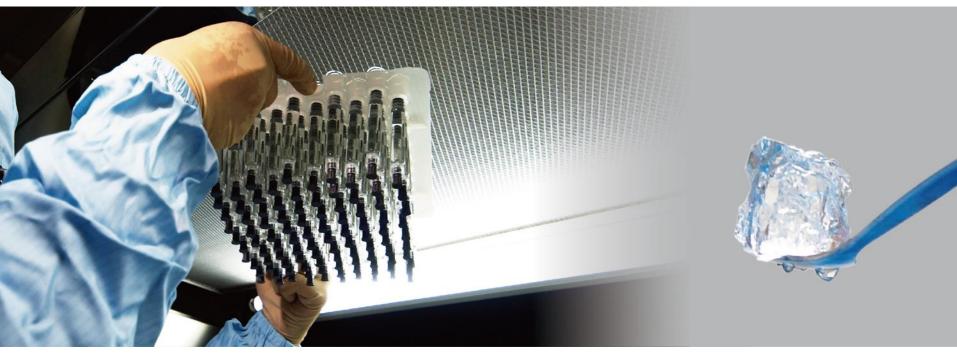


Outline

- 1. Company & Product & Technology Overview
- 2. Business Operation

SciVision Biotech Inc.





The Leading Technology of Hyaluronic Acid ~ Since 2001

About SciVision



- Listed on TSE on 12th November 2013 (Code: 1786)
- Oriented as Professional in pharmaceutical grade Hyaluronic Acid production
- Located at No.6, South Sixth Rd. & No.6, South First Rd. in Kaohsiung Export Processing Zone, Taiwan
- Factory covers an area of 19,781.85 m² (5,984 Taiwanese ping)
- Factory facilities & equipment conforms to ISO 13485, cGMP, US FDA and PIC/s GMP standards
- Produces 12 million syringes of medical device (including dermal filler, synovial fluid supplement and adhesion barrier) annually

Core Technology of SciVision



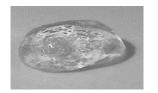




(Crosslinked Hyaluronic Acid Platform, CHAP®)



CHAP technology can be widely used on various products



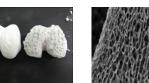
Absorbable adhesion barrier

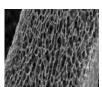


Single injection viscosupplement



Dermal filler





Other novel applications

CHAP® Patents cover the top five markets worldwide



(19) 中华人民共和国国家知识产权局



(12) United States Patent

(54) METHOD FOR PRODUCING CROSS-LINKED

(73) Assignee: SCIVISION BIOTECH INC., K.E.P.Z.

Prior Publication Data

_ C08B 37/00; C08B 15/00; A61K 8/73;

U.S. PATENT DOCUMENTS

(75) Inventors: Tor-Chern Chen, Kaohsiung (TW) Li-Su Chen, Kaohsiung (TW)

Chen et al.

(21) Appl. No.: 13/316,840

(51) Int. Cl. COSB 37/08 (52) U.S. Cl.

(58) Field of Classification Search

(22) Filed: Dec. 12, 2011

(12) 发明专利

(10) 授权公告号 CV 101724164 B (45) 授权公告日 2011.12.14

(21) 申请号 200810172328.6 (22) 申请日 2008.10.31

(73) 专利权人 科妍生物科技股份有限公司 地址 中国台湾高雄市

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责任公司 11287

(51) Int. CI COS. 1 3/24 (2006, 01) COSL 5/08 (2006, 01) COSK 5/1515 (2006, 01)

(56) 对比文件 CN 101244290 A, 2008, 08, 20, 权利要求

CN 1774272 A, 2006. 05. 17, 全文. CN 101153061 A, 2008, 04, 02, 全文,

US 2007/0026070 A1, 2007. 02. 01, 权利要求

CN 101244290 A, 2008. 08. 20, 权利要求 权利要求书 1 页 说明书 12 页

(54) 发明名称

交联透明质酸的制造方法 (57) 摘要

本发明涉及一种制造交联透明质酸的方法。

其包含在约 10℃至约 30℃的低温下停包含透明 质酸的溶液进行交联反应超过约 48 小时, 本发明 的方法不需纯化步骤即可降低交联剂的含量。

發明專利說明書 公告本

(本說明書格式、順序及報體字。請助任意更動,簽記號部分請助填寫) ※申請案號: 97136520

CO8J3/54 (2000.41) ※ 申請日期: 97.09.23

CO865/08 (2006.01) 一、發明名稱:(中文/英文)

交聯透明質酸之製造方法

METHOD FOR PRODUCING CROSS-LINKED HYALURONIC ACID

二、申請人:(共1人)

姓名或名稱:(中文/英文)

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韓開程 HAN, KAI-CHENG

住居所或營業所地址:(中文/英文)

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國 籍:(中文/英文) 中華民國 R.O.C.

US 9,371,402 B2

(45) 発行日 平成25年11月13日(2013.11.13) COBB 37/08

(21) H-38 26 43

審査請求日

(31) 優先標主張新号 097136520

(33) 優先権主張国 台灣 (TV)

BIOTECH INC.

機材質に終く

COSB 37/08

特額2009-219164 (P2009-219164) 平成21年9月24日 (2009.9. 24) 特階2010-77434 (P2010-77434A) 平成22年4月8日 (2010.4.8) 科研生物科技股▲分▼有限公司 台灣高號市的鐵區高級加工出口區南六路9 平成22年5月7日 (2010.5.7) 4)代理人 100108453 **弁理士 村山 落在** SEAR 20 BE 23 FL (2008 9 27) 4) 代理人 10 弁理士 志賀 正武 か理士 選嫌 間 74) 代理人 弁理士 実広 信哉 72) 発明者 陳拓成 台灣屏東市新興里 3 鄭公興路 1 7 4 世 5 號

(54) 【発明の名称】架構ヒアルロン酸の製造方法

(57) 【特許請求の範囲】

前記低温で架橋結合を行うステップの前に、さらに、セ氏35~60度の高温で架橋結 会反広を行うステップを有し、 さらに ヒドロキン基を有する前記多糖類が、カルボキシメチルセルロース(CMC)、アルギ

ン酸塩、コンドロイチンー4ーサルフェート、コンドロイチンー6ーサルフェート、キサンタンガム、キトサン、ペクチン、寒天、カラギーナン、グアールガムからなる群より選 択されるものであることを特徴とする架橋ヒアルロン酸の製造方法。 【請求項2】 前記セアルロン酸塩がヒアルロン酸ナトリウム、ヒアルロン酸カリウム、ヒアルロン酸 亜鉛からなる群より選択されるものであることを特徴とする請求項 1 に記載の架橋セアル

前記アルカリ条件が0.05~1.5N'であることを特徴とする請求項1に記載の架 20

Taiwan

China

(10) Patent No.:

(45) Date of Patent: Jun. 21, 2016 Tead, A., & Fredrickson, G. H. (2008). The science of hydron acid dermal fillers. Journal of Cosmetic and Laser Therapy, 10(1 35-42*

Y. Tokita et al., Hydrolytic degradation of hyalurenic acid, Polymer Degradation and Stability, 1995, pp. 269-273, vol. 48. Bass J.C.F. Nelis et al., A Sensitive Fluorimetric Procedure for the Determination of Aliphatic Eposides under Physiological Condions, Analytical Biochemistry, 1981, pp. 151-157, vol. 115. Suropean Search Report for 09004561 8-2115, which is a corn patent is extended or adjusted under 35 U.S.C. 154(b) by 351 days. pending application, that cites US2002/09/281, and U.S. Pat. No 4,716,154, EP 1818344, US 2006/246137, EP 0939086, Jinghua e rges of PLA, Shanghai, CN, Feb. 1, 2008, pp. 15-19, vol. 23, No. 1 nd Tomihata K. et al., Preparation of cross-linked hysfuronic acis nd Tomihata K. et al., Preparation of cross-linked hystoronic acid lans of low water content, Hiomaterials, Feb. 1, 1997, pp. 189-195 rel. 18 No. 3.

US 2012/0095206 A1 Apr. 19, 2012 Related U.S. Application Data which is a corresponding Chinese application, that cites CN 101244200, and US 2007-0026070. Chinese Office Action dated Jul. 1, 2011 for 200810172328.6, which (63) Continuation-in-part of application No. 12/385,502, filed on Apr. 9, 2009, now abandoned.

> COSB 37/0072 (2013.01) of low water content, Biomaterials, Feb. 1, 1997, pp. 189-195, vol. 18, No. 3.

European Office Action for 09004561.8-2115, which is a corresponding European application.

Chinese Office Action dated Jan. 30, 2011 for 200810172328.6

s a corresponding Chinese application. Singhus et al., Characteristics of hysharonic acid derivative films ross-linked by polyethylene glycol of low water content, Journal of fedical Colleges of PLA, Shanghai, CN, Feb. 1, 2008, pp. 15-19,

Office Across russion on U.S. A., Carlot VI. 2006-051950, IP 66-233101, IP 1807-102002, and IP 1802-138346.

English abstract of Office Action issued on Oct. 23, 2012 of the Carlot VI. 2006-051950, IP 66-233101, IP 1807-1908-061, IP 1807-1908-061

United States

Japan



EU

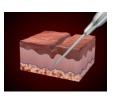
Core Products of SciVision



Facial Aesthetics

1.4 billion of global market value In 2017





HA Dermal Filler

CAGR: 12%

Geriatrics care

2.7 billion of global market value In 2017





Viscosupplement

CAGR: 7.5%

Surgery

16.0 billion of global market value In 2017





Absorbable Adhesion Barrier

CAGR: 8.9%



Facial Aesthetics

HYADERMIS/ FACILLE

HA Dermal Filler





Advantage

- ✓ High safety performance
- ✓ Strong structural support
- ✓ Lasting effect
- ✓ Excellent viscosity
- ✓ High proportion of active ingredient
- ✓ Superior degradation resistance



Product license TW 、 CE 、 CFDA

Geriatrics care

HYAJOINT

Three Injection Viscosupplement Single Injection Viscosupplement



- ✓ Single Injection
- ✓ High Security Performance
- ✓ Long Lasting Effect
- ✓ High Comfort
- ✓ Needless of Excessive Injection







Product license TW 、 CE

JBJS America, impact factor=5.163 Top international journal in Orthopedics

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Comparison of Single Intra-Articular Injection of Novel Hyaluronan (HYA-JOINT Plus) with Synvisc-One for Knee Osteoarthritis

A Randomized, Controlled, Double-Blind Trial of Efficacy and Safety

Shu-Fen Sun, MD, Chien-Wei Hsu, MD, Huey-Shyan Lin, PhD, I-Hsiu Liou, MD, Yin-Han Chen, MD, and Chia-Ling Hung, MD

Investigation performed at the Kaohsiung Veterans General Hospital, Kaohsiung City, Taiwan

Background: Viscosupplementation has been widely used for the treatment of knee osteoarthritis. Because we found no well-controlled trial comparing single-injection regimens of hyaluronan for knee osteoarthritis, we compared the efficacy and safety of a single intra-articular injection of a novel cross-linked hyaluronan (HYA-JOINT Plus) with a single injection of Syrvisc One in patients with knee osteoarthritis.

Methods: In a prospective, randomized, controlled, double-blind trial with a 6-month follow-up, 132 patients with knee osteoarthritis (Kellgren-Lawrence grade 2 or 3) were randomized to receive 1 intra-articular injection of 3 mL of HYA-JOINT Plus (20 mg/mL) (n = 66) or 6 mL of Synvisc-One (8 mg/mL) (n = 66). The primary outcome was the change from baseline in the visual analog scale (VAS) (0 to 100 mm) pain score at 6 months. Secondary outcome measures included the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC, Likert scale), Lequesne index, timed "Up & Go" (TUG) test, single-limb stance (SLS) test, use of rescue analgesics, and patient satisfaction.

Results: A total of 121 patients were available for the intention to treat analysis at 6 months. Both groups had a significant improvement in the VAS, WOMAC, and Lequesne index scores at each follow-up visit (ρ <0.001). Patients who received HYA-JOINT Plus experienced a significantly greater improvement in the VAS pain score at 1, 3, and 6 months compared with those treated with Syrwisc-One (adjusted mean difference: -12.0, -8.5, and -6.6; p=0.001, 0.033, and 0.045, respectively). There were no significant between-group differences in any of the secondary outcomes except the WOMAC stiffness scores at 6 months, which favored HYA-JOINT Plus treatment (p=0.043). The TUG time did not change significantly in either group during the study (p>0.05), but the SLS time improved significantly in both the HYA-JOINT Plus and the Syrwisc-One group (p=0.004 and p=0.022, respectively). No significant between group differences were observed with respect to patient satisfaction or consumption of analgesics. No serious adverse events occurred following the injections.

Conclusions: A single injection of either HYA-JOINT Plus or Synvisc-One is safe and effective for 6 months in patients with knee osteoarthritis. HYA-JOINT Plus is superior to Synvisc-One in terms of reducing the VAS pain score at 1, 3, and 6 months and the WOMAC stiffness score at 6 months, with similar safety.

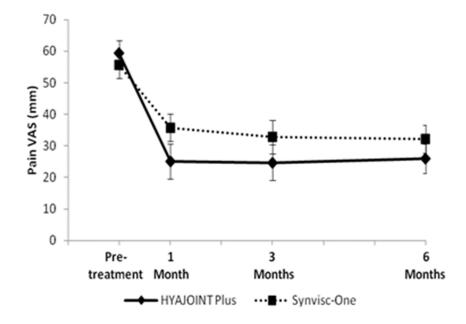
Level of Evidence: Therapeutic Level I. See Instructions for Authors for a complete description of levels of evidence.

Pear Review: This article was reviewed by the Editor-in-Chief and one Deputy Editor, and it underwent blinded review by two or more outside experts. It was also reviewed by an expert in methodology and statistics. The Deputy Editor reviewed each revision of the article, and it underwent a familiar review by the Editor-in-Chief prior to publication. Final corrections and clarifications occurred during one or more exchanges between the author(s) and copyeditors.

Viscosupplementation with hyaluronan is a well-established treatment option for knee osteoarthritis. The goal of viscosupplementation is to reduce pain and improve viscoelasticity of synovial fluid^{1,2}. Hyaluronan may provide biological actions, including anti-inflammatory, antinociceptive, and anabolic effects^{1,6}. Moreover, it has been known to

Disclosure: The study was sponsored by SciVision Biotech Corporation, the manufacturer of HYA-JOINT Plus. One author (S.-F.S.) received funding from the SciVision Biotech Corporation. Funds were used to pay for consultancy in study planning, and realization. The funding source was not involved in patient enrollment, data collection, data analysis, or manuscript preparation. The Disclosure of Potential Conflicts of Interest forms are provided with the online version of the article (http://links.hww.com/JBIS/AL47).





Gynecologic pelvic surgery



PROTAHERE

Absorbable Adhesion Barrier

Advantage

- ✓ High Biocompatibility
- ✓ Easy to apply
- ✓ High viscosity



Product license TW (license in 2017, product launch in 2018)

Gynecologic pelvic surgery The trend of Adhesion Barrier

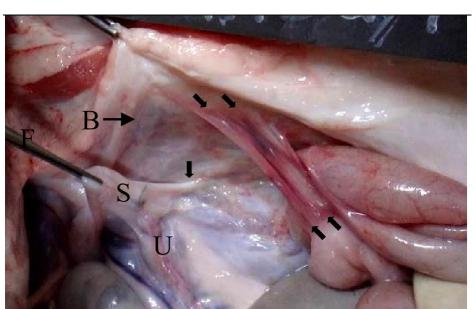


| Product | P Brand | S Brand | I Brand | S Brand | H Brand | PROTAHERE |
|------------------|----------------------------------------------------------------------------------|---------------------------------------|-----------------|--------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| Company | G company | M company | J company | S company | F company | SCIVISION |
| Material | ePTFE | polylactic acid | ORC | HA-CMC | cross-linked HA | cross-linked HA |
| Type | Film | Film | Film | Film | gel | gel Win |
| Absorbability | - | Φ | ФФ | | φφφφ | фффф Win |
| Usability | Φ | фф | ΦΦ | ΦΦΦ | φφφφ | papp Win |
| Shift resistance | Φ | Φ | Φ | ΦΦ | φφφ | papa Win |
| Note | 1.Suture in place 2.Non-resorbable 3.Needed to be removed for the second surgery | 1.Suture in place 2.Non-resorbable | Suture in place | Not easy to use in laparoscopy | 1.Resorbable 2.Convenient to use 3.Mediocre sti cky | 1.Resorbable 2.Convenient to use 3.Excellent sticky |

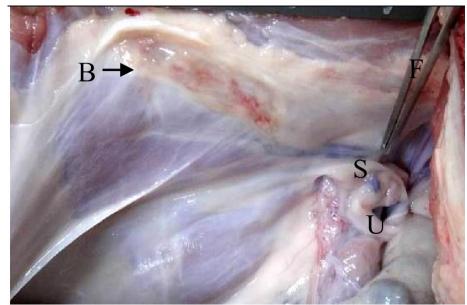
PROTAHERE has significant anti-adhesion properties



Control group (Unused)



Use PROTAHERE



Tendon, peripheral nerve, joint surgery



DEFEHERE

Absorbable Adhesion Barrier

Advantage

- ✓ High Biocompatibility
- ✓ Easy to apply
- ✓ High viscosity
- ✓ Long effective protection time



Product license TW (license in 2018, product will be available soon)

Tendon, peripheral nerve, joint surgery The trend of Adhesion Barrier

| Product | F Brand | H Brand | DEFEHERE | |
|---------------------------------|-------------|-----------------|-----------------|--|
| Company | M company | A company | SCIVISION | |
| Material | PEO and CMC | cross-linked HA | cross-linked HA | |
| Type | gel | gel | gel | |
| Biocompatibility | ΦΦ | φφφφ | Option Win | |
| Anti- degradation ability | ффф Win | ΦΦ | φφφ | |
| Indication | Φ | φφφφ | Option Win | |



Profit & Loss-Consolidated

Unit:NT thousand dollars (except for EPS)

Revenue

Cost of Goods Sold

Gross Profit

Operating Expense

Operating Income

Non-operating Income, Net

Income before Tax

Net Income

EPS(NT\$)

| H1, '18 | | | | |
|------------|------|--|--|--|
| (Reviewed) | | | | |
| 154, 789 | 100% | | | |
| (48, 374) | -31% | | | |
| 106, 415 | 69% | | | |
| (65, 829) | -43% | | | |
| 40,586 | 26% | | | |
| 2,872 | 2% | | | |
| 43, 458 | 28% | | | |
| 39, 196 | 25% | | | |
| | | | | |
| 0.76 | | | | |

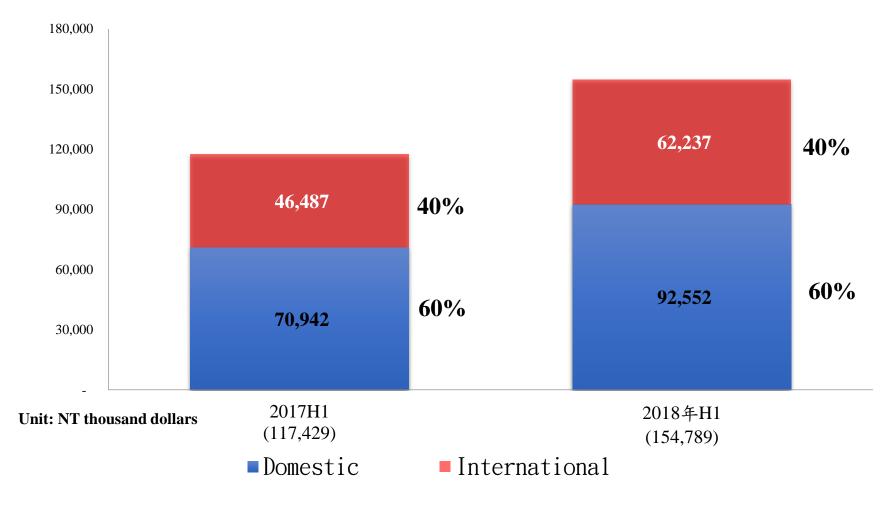
H1, '17 年成長 (Reviewed) 117, 429 100% 31.8% (51,720) -44%-6.5%65, 709 56% 61.9% (60, 290) -51%9. 2% 5, 419 5% 649.0% (6,617) -6% 143.4% (1, 198) -1%3727.5% (1, 198) -1%3371.8%

(0.02)

Domestic and International Sales Ratio



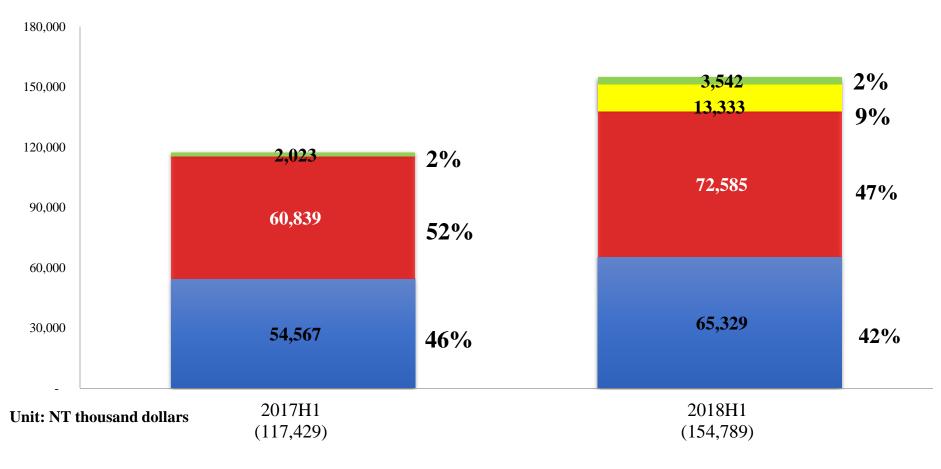
2017H1&2018H1



Product Portfolio Sales Ratio



2017H1&2018H1



■Dermal filler ■Viscosupplentation ■Absorbable Adhesion Barrier ■Other

Key customers of SciVision





























Balance Sheet-Consolidated

Unit:NT thousand dollars

Cash and Cash Equivalents
Accounts Receivable
Inventories
Financial asset measured at fair value
through other comprehensive income
Financial assets carried at cost
Property, Plant & Equipment
Other Current/Non-Current Assets

Total Assets

Current Liabilities Long-Term & Other Liabilities

Total Liabilities Total Shareholders' Equities

Key Indices

A/R Turnover (Days)
Inventory Turnover (Days)
Current Ratio(x)
ROE(%)

| 2018/6/30 | | 2017/6/30 | |
|------------|------|-------------|------|
| (Reviewed) | | (Reviewed) | |
| 396, 584 | 24% | 419,827 | 28% |
| 35, 163 | 2% | 41,443 | 3% |
| 34, 165 | 2% | 39, 966 | 3% |
| | | | |
| 3, 650 | 0% | 3, 801 | 0% |
| _ | 0% | 8, 925 | 1% |
| 1,022,699 | 63% | 863, 955 | 57% |
| 128,662 | 8% | 132, 487 | 9% |
| 1,620,923 | 100% | 1, 510, 404 | 100% |
| 227,617 | 14% | 225, 345 | 15% |
| 451,321 | 28% | 392, 817 | 26% |
| 678, 938 | 42% | 618, 162 | 41% |
| 941, 985 | 58% | 892, 242 | 59% |
| | | | |
| E0.0E | | 60.04 | |
| 50.95 | | 68.34 | |
| 125.97 | | 130. 75 | |
| 221.09 | | 238. 15 | |
| 4.22% | | -0.13% | |

Cash Flows-Consolidated



| Unit:NT thousand dollars | H1,'18 (Reviewed) | H1,'17 (Reviewed) |
|-------------------------------|----------------------|----------------------|
| From Operating Activities | 74, 692 | (9, 987) |
| Profit before tax | 43, 458 | (1, 198) |
| Depreciation & Amortisation | 9, 626 | 9, 979 |
| Net change in working capital | 21, 608 | (18, 768) |
| From Investing Activities | (7, 746) | (66, 095) |
| Financial asset measured at | | |
| amortised cost | 6, 811 | 127, 512 |
| Capital expenditure | (14, 557) | (189, 481) |
| From Financing Activities | (470) | 162, 952 |
| Short-term loans | 0 | 40, 405 |
| Long-term loans | (470) | 122, 547 |
| Net Change in Cash | 66, 496 | 85, 630 |
| Beginning Balance | 330, 088 | 334, 197 |
| Ending Balance | 396, 584 | 419, 827 |
| | | |
| Free Cash Flow | 60, 135 | (199, 468) |

Vision & Prospect



Vision

Science Creates Better Visions

Prospect

Leading HA brand in the world

The best in global market

Thank You