Pre-Feasibility Study Gemstone Identification Laboratories









Pakistan Gems and Jewellery Development Company A subsidiary of Pakistan Industrial development Corporation Ministry of Industries & Production, Government of Pakistan A Company setup under section 42 of Companies' Ordinance 1984



<u>Karachi</u>

Gems & Jewellery Training and Manufacturing Centre Plot No. 15, Street No. SB-5, Opp Bliss Shopping Centre, Zaib-un-Nisa Street, Saddar, Karachi.

Phone No. 021-35220294-5 E-mail: gjtmc-khi@pgjdc.org

<u>Lahore</u>

Gems & Jewellery Training and Manufacturing Centre 3rd Floor, Rana Centre, 18 Jamaluddin Afghani Road, Maclagan Road, Lahore

Tel: 042-37248515-16 E-mail: gjtmc-lhr@pgjdc.org

Peshawar

Gems &Jewellery Training and Manufacturing centre Opposite Imperial Store, Saddar, Cantt Bazaar, Peshawar

Phone No: 091-5286115-6 E-mail: gjtmc-pwr@pgjdc.org

<u>Quetta</u>

Gems &Jewellery Training and Manufacturing centre Malik Plaza 1st Floor, Main M.A Jinnah Road, Quetta

Phone No: 081-2824221-23 E-mail: gjtmc-qta@pgjdc.org

<u>Gilgit</u>

Gems & Jewellery Training and Manufacturing Centre Zakir Complex, Shahrah-e-Quaid-e-Azam, Opp. New Secretariat, Gilgit Baltistan 15100, Jotial Gilgit Tel: 05811-920537-9

E-mail: gjtmc-glt@pgjdc.org

Sargodha

Gems & Jewellery Training and Manufacturing Centre 98-A, Bahadur Shah Zafar Road, Opp. Jamia Girls School, Sargodha.

Phone No.: 048-3724451-2

Muzaffarabad, AJK

Gems & Jewellery Training and Manufacturing Centre Khawaja Plaza near Darbar Shah Inayat, Muzaffarabad, AJK Phone No.: 058-22923166

Table of Contents

Description	Page No
1. DISCLAIMER	3
2. PURPOSE OF THE DOCUMENT	•
3. INTRODUCTION TO PGJDC	
4. INTRODUCTION TO SCHEME	
5. EXECUTIVE SUMMARY	
6. BRIEF DESCRIPTION OF PROJECT & PRODUCT	
7. CRITICAL FACTORS	
8. INSTALLED AND OPERATIONAL CAPACITY	
9. GEOGRAPHICAL POTENTIAL FOR INVESTMENT	
10. POTENTIAL TARGET MARKETS	6
11. PRODUCTION PROCESS FLOW	
12. PROJECT COST SUMMARY	7
12.1. PROJECT ECONOMICS	7
12.2. PROJECT FINANCING	8
12.3. PROJECT COST	8
12.4. SPACE REQUIREMENT	
12.5. MACHINERY AND EQUIPMENT	<mark>9</mark>
12.6. CONSUMABLES	9
12.7. FURNITURE AND FIXTURES	<mark>10</mark>
12.8. HUMAN RESOURCE REQUIREMENT	<mark>10</mark>
12.9. REVENUE GENERATION	<mark>10</mark>
12.10. OTHER COSTS	10
13. KEY ASSUMPTIONS	11
14. ANNEXURE	
14.1. INCOME STATEMENT (ANNEXURE 1)	
14.2. STATEMENT OF CASH FLOW (ANNEXURE 2)	
14.3. BALANCE SHEET (ANNEXURE 3)	

1. Disclaimer:

This information memorandum is to introduce the subject matter and provide a general idea and information on the subject. Although, the material included in this document is based on data/information gathered from various reliable sources; however, it is based upon certain assumptions which may differ from case to case. The information has been provided on, as is where is basis, without any warranties or assertions as to the correctness or soundness thereof. Although, due care and diligence has been taken to compile this document, the contained information may vary due to any change in any of the concerned factors, and the actual results may differ substantially from the presented information. PGJDC, its employees or agents do not assume any liability for any financial or other loss resulting from this memorandum in consequence of undertaking this activity. The contained information does not preclude any further professional advice. The prospective user of this memorandum is encouraged to carry out additional diligence and gather any information which is necessary for making an informed decision; including taking professional advice from a qualified consultant/technical expert before taking any decision to act upon the information.

For more information on services offered by PGJDC, please visit our website: www.pgjdc.org.

2. Purpose of the Document:

The objective of the pre-feasibility study is primarily to facilitate potential entrepreneurs in project identification for investment. The project pre-feasibility study may form the basis of an important investment decision and in order to serve this objective, the document/study covers various aspects of project concept development, start-up, production, marketing, finance and business management.

The purpose of this document is to facilitate potential investors in setting up Gemstone Identification Laboratories by providing them a general understanding of the business with the intention of supporting potential investors in crucial investment decisions.

The need to come up with pre-feasibility reports for undocumented or minimally documented sectors attains greater imminence as the research that precedes such reports reveals certain thumb rules; best practices developed by existing enterprises by trial and error, and certain industrial norms that become a guiding source regarding various aspects of business set-up and it's successful management. Apart from carefully studying the whole document, one must consider critical aspects provided later on, which form basis of any Investment Decision.

3. Introduction to PGJDC:

Pakistan Gems and Jewellery Development Company (PGJDC) was established in 2006 as a subsidiary of Pakistan Industrial Development Corporation, working under the Ministry of Industries & Production, Government of Pakistan. The charter of the Company is to enhance the value chain productivity of gems and jewellery industry of Pakistan from Mine to Market. The Company aims to enhance exports through facilitation, technology up-gradation, skill development and marketing/branding initiatives. Its aim is to establish Pakistan as a high value added, internationally competitive, world class hub for precious stone cutting and jewellery manufacturing by means of supporting the value chain and ancillary trades.

PGJDC has designed this pre-feasibility study to facilitate the entrepreneurs related to Gems & Jewellery sector of Pakistan by providing technical advice to them so that they could establish their Gems & Jewellery related businesses.

4. Introduction to Prime Minister's Youth Business Loan Scheme:

'Prime Minister's Youth Loans' Scheme, for young entrepreneurs, with an allocated budget of Rs. 5.0 Billion for the year 2013-14, is designed to provide subsidized financing at 8% mark-up per annum for one hundred thousand (100,000) beneficiaries, by designated financial institutions, initially through National Bank of Pakistan (NBP) and First Women Bank Ltd. (FWBL).

Loans from Rs. 0.1 million to Rs. 2.0 million with tenure up to 8 years inclusive of 1 year grace period, and a debt: equity of 90: 10 will be disbursed to SME beneficiaries across Pakistan, covering; Punjab, Sindh, Khyber Pakhtunkhwa, Balochistan, Gilgit Baltistan, Azad Jammu & Kashmir and Federally Administered Tribal Areas (FATA).

5. Executive Summary:

Although the Gemstone Identification Laboratories can be setup anywhere in Pakistan, as gemstone businesses are established in various parts of the Country, but the most ideal locations for setting up this laboratory are the Gemstone mining and trading hubs of the Country, such as, Peshawar, Mingora, Quetta, Chitral, Gilgit, Skardu, Muzaffarabad, Karachi, Lahore and Islamabad/Rawalpindi. The Gemstone mines are either located in these areas or a considerable number of entrepreneurs are engaged in gemstone businesses. Identification and grading of the gemstones mined in these areas is necessary for their local and international acceptance of the gemstones.

The proposed unit will provide the Gemstone Identification Service to ascertain the value of gemstones. The unit will have the capacity to check 5000 stones per year and the charges would be Rs. 1,000 for identification report and Rs. 200 for verbal identification. In the first year of operation, the unit would run on 60% of the total production capacity. The total cost of the project is Rs. 1.610 Million, with capital cost of Rs. 1.191 Million and yearly operating expenses of Rs. 0.419 Million. The success of the project will depend mainly on the following:

- Expertise of the Gemologist and soundness of the equipment.
- Awareness about the latest Gemstone Identification techniques.

6. Brief Description of Project and Product:

- **Technology:** The proposed unit will require latest Gemstone testing and identification equipment including microscope, refractometer, polariscope, dichroscope etc.
- Location: The most ideal locations for setting up a Gemstone Identification Laboratory are the Gemstone mining and trading hubs of the Country including Peshawar, Mingora, Quetta, Chitral, Gilgit, Skardu and Muzaffarabad. However, the laboratories can also be setup in Jewellery hubs such as Karachi, Lahore, Rawalpindi/Islamabad, Hyderabad, Sukkur, Multan and Faisalabad.
- **Product:** The proposed unit will provide Gemstone Identification Services to ascertain the value of gemstones.
- Target Market: The potential target markets of the Gemstones are the Gems & Jewellery mining and trading hubs of Pakistan such as Peshawar, Mingora, Quetta, Chitral, Gilgit, Skardu, Muzaffarabad, Karachi, Lahore and Islamabad/Rawalpindi. The potential target markets of the gemstones mined in Pakistan exist in Europe, India, USA, Canada, Middle East, Hong Kong, China, Taiwan, etc.
- **Profitability:** The proposed unit will be able to earn profit from the first year of its operation.
- Marketing: The services offered by Gemstone Identification Laboratory can be marketed through different means of conventional as well as online marketing. Websites, E-Commerce portals and social media platforms will be the ideal tools for marketing the lab.

7. Critical Factors:

Credibility of the lab within the stakeholders will be the main factor for the successful running of this Gemstone Identification Laboratory. In order to make the business successful, following factors must be kept in mind:

- Technical expertise of the Gemologist. Regular upgradation of his gemstone identification skills.
- Regular upgradation in gemstone identification and grading equipment.
- Effective marketing.

8. Installed and Operational Capacity:

The installed capacity shall be identification of 5,000 stones per year. The project will run with approximately 60% capacity in first year of its operations with annual increase of 3% in production.

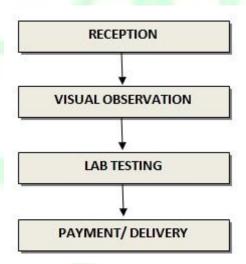
9. Geographical potential for Investment:

The Gemstone Identification Laboratory is proposed to be set up near the Gemstone mining and trading hubs of the Country, so that close interaction could be developed with the Gemstone miners and dealers. Gemstone markets in the cities of Peshawar, especially in the Namak Mandi area, Northern areas of Pakistan including Gilgit Baltistan, Swat, Chitral, Skardu, Mingora, Muzaffarabad etc, and Quetta are ideal locations for setting up this business. Additionally, the major Jewellery Manufacturing and Trading clusters including Karachi, Lahore, Rawalpindi/Islamabad, Faisalabad and Hyderabad etc are the promising locations for setting up Gemstone Identification Laboratories.

10. Potential target Markets:

The Gemstones mined in Pakistan have enormous export potential in international markets such as Europe, India, USA, Middle East, Hong Kong, China, Taiwan, etc. locally, these gemstones have great demand in the jewellery markets of the Country including Karachi, Lahore, Islamabad/Rawalpindi, Hyderabad, Sukkur, Multan, Faisalabad etc. Identification of gemstones through Gemstone Identification Laboratories will add value to the products through genuineness of the gemstones thus increasing their credibility in local and international markets.

11. Production Process Flow:



- Time required for verbal testing will be 2 hours after receiving the sample. Depending on work load of the lab.
- For written report time will be 24 hours after receiving sample of gemstones.
- > Fee for the gemstone testing communicated.

STONE HANDLING

- The Gemologist will receive stone outside the lab from the customer at lab reception desk. No one is allowed to enter Gem Lab without the permission of the lab in charge.
- Written permission will be taken before performing any destructive test on stone.
- Only loose un-mounted cut and polished sample are accepted for report.
- Mounted stones are not accepted for report.
- Applicant should be informed in advanced about any defect or breakage present in stone.
- Weights and Measurement should be done in advance, in front of customer.
- At the time of sample deposition at Gem Labs, it is mandatory to read and accept all the terms and conditions given in the agreement form for sample testing and to make advance payment in the case of report as well as verbal.

INSPECTION, CARE AND HANDLING PROCEDURES

- At every step of the identification process special inspection care and handling procedures are in place to protect the gems identity and ensure it is managed with the utmost care.
- The opinion of at least two Gemologists will be made about the sample.

LAB RECORD

From Lab will maintain record of reports in computer and in hard copy form. A register / log book is to be maintain, with columns showing summery of the collected gemstone, tested, and returned back to the individual with date and time.

12. Project Cost Summary:

This section outlines the financial model to analyze the commercial viability of the Gemstone Identification Laboratory. It contains various cost and revenue related assumptions along with their results.

12.1 Project Economics:

It is estimated that around 5000 stones per year will be identified by the proposed Gemstone Identification Laboratory and the cost of each stone checked would be Rs. 1,000 per identification report and Rs. 200 per verbal identification. The Internal rates of Return (IRR) and Payback period are shown in the following table:

Table 1: Project Economics

Description	Details
Internal rate of Return (IRR)	3.37%
Payback period (years)	7 years
Net Present Value (NPV)	Rs. 25,174

The commercial viability of this project will depend upon the expertise of the gemologist and the quality of the Gemstone testing equipment. Credibility of the lab will play a vital role in sustainability of the project and correct identification will add to the credibility of the gemologist.

12.2 Project Financing:

Details of the equity required and variables related to bank loan are as follows:

Table 2: Project Financing

Description	Details
Total Equity (10%)	Rs. 161,080
Bank Loan (90%)	Rs. 1,449,720
Markup to the Borrower (Percentage / annum)	8%
Loan Tenure (years)	8 Years
Grace Period (years)	1 Year

12.3 Project Cost:

Following requirements have been identified for operations of the proposed business.

Table 3: Capital Investment for the project

Cost description	Total Cost (Rs.)
Equipment	1,016,000
Furniture /Fixture	135,000
Pre-operational Expenses	40,000
Total Fixed Cost	1,191,000
Gem Identification lab consumables	99,800
Upfront Building Rent (12 Months)	120,000
Cash	200,000
Total Project Cost	1,610,800

12.4 Space Requirement:

The project is proposed to be set-up in a rented building. In this way, the initial capital cost of the project will be far less.

Table 4: Space Requirement

Space Requirement (in ft)	Sq.ft
Common/ Visitor's area	80
Gem identification lab	50
Total Area	130

12.5 Machinery and Equipment:

Following combination of equipment is required for establishing a gems identification lab with capacity of testing approximately 5000 gemstones per year. Approximate prices for equipment are given below;

Table 5: List of Equipment

Machine Description	Qty	Per Unit	Total Cost
		Price	
Refractometer	1	100,000	100,000
Polariscope	1	30,000	30,000
Electronic Balance with Specific gravity attachment	1	125,000	125,000
Microscope	1	250,000	250,000
Dichroscope	1	5000	5000
Spectroscope	1	125,000	125,000
Chelsea filter	1	3,000	3,000
UV lamp	1	40,000	40,000
Daylight lamp	1	15,000	15,000
Fiber optic light source	1	50,000	50,000
Master stone set for diamond color grading	1	100,000	100,000
Tweezers	3	1,000	3,000
Loupe	2	4,000	8,000
Immersion cell	1	2,000	2,000
Computer + UPS	1	80,000	80,000
Laser Colour Printer	1	65,000	65,000
Camera	1	15,000	15,000
Total			1 <mark>,0</mark> 16,000

12.6 Consumables:

Following Consumables are required for setting up gemstone identification laboratory:

Table 6: List of Consumables

Description of Items	Unit	Qty	Price	Cost
R.I Liquid	ml	50	200	10,000
Gem cloth	Pcs	2	150	300
Hydrochloric Acid (Analytical grade)	Litre	01	7,000	7,000
Methylene Iodide	ml	50		5,000
Acetone (Gr-grade)	ml	50		5,000
Colour printer cartridge	Set	2	35000	70,000
Certificate papers	Rim	01	2500	2,500
TOTAL				99,800

12.7 Furniture and Fixtures:

Table 7: List of Furniture & Fixture

Description of Items	Qty	Per unit cost	Total
Table	1	10,000	10,000
Computer table	1	5000	5000
Working tables for Equipment	1	10,000	10,000
Working chairs for machine	2	3,500	7,000
operators			
Visitor Chairs	4	4,500	18,000
Safe	1	20,000	20,000
Almirah	1	10,000	10,000
1.5 Ton air conditioner/ split unit	1	45,000	45,000
Synthetic carpet	1	10,000	10,000
Total			135,000

12.8 Human Resource Requirement:

Table 8: Human Resource Requirement

Description	No. of employees	Salary per person	Per Month Salary Rupees	Annual Salary Rupees
Gemologist	01	50,000	50,000	6 <mark>00,0</mark> 00
Assistant	01	20,000	20,000	24 <mark>0,0</mark> 00
Total				840,000

12.9 Revenue Generation:

Table 9: Revenue Generation (60% production capacity for first year)

Product	Service charges (Rs)	No. of stone checked per year	First Year Sales Revenue (Rs.)
Report	1000	1200	1,200,000
Verbal identification	200	1800	360,000
Total Sales Revenue			1,560,000

12.10 Other Costs:

Approximately 130 sq.ft of office space will be required to setup this Gemstone Identification Laboratory. Monthly rent is estimated up to 10,000 / month (5% yearly increase) and utility charges inclusive electricity and internet amounts to Rs. 8,000/ (10% yearly increase). In year 1, the total rent cost amounts to Rs. 120,000. Similarly, utility expense is estimated to be about Rs. 96,000 per annum.

13. KEY ASSUMPTIONS

PRODUCTION	ASSUMPTIONS

Maximum Capacity Utilization		100%
Maximum Capacity Utilization (Year-1)		60%
Name of the Product: Gem Stone Ident	<u>ification Unit</u>	
No of stone checked / year- report		2000
Verbal Identification/ year		3000
No of stone checked / year- report (6	50%)	1200
Verbal Identification/ year (60%)		1800
Total Identification per day		10
OPERATING ASSUMPTIONS		
Annual Identification Capacity		100%
Total Identification Capacity (Year 1)		6 <mark>0%</mark>
Growth Rate in Production (15.5%)	OR (times)	1. <mark>155</mark>
Hours operational per day		8
Days operational per month		25
Days operational per year		300
ECONOMY-RELATED ASSUMPTION	NS	
Electricity growth rate (10%) Ol	R (times)	1.1
Pay roll growth (10%) OR (times)		1.1
CASH FLOW ASSUMPTIONS		
Accounts receivable cycle (in days)		30
Accounts payable cycle (in days)		30
WIP (Days) 1		
Finished Goods (Days)		7
Raw Materials Inventory (Days)		30
Cash in Hand		Rs. 200,000

REVENUE ASSUMPTIONS

a 1	•		• 4	•	
Sales	price	ner	unit	ın	vear
CULCE	PIICO	P	CALLE		,

stone checked / report		1000
Verbal stone Identification/ stone		200
Sale price growth rate (15.5%)	OR (times)	1.155

EXPENSES ASSUMPTIONS

Electricity Expenses Per/Year (Rs)	84,000
Equipments/ Machine maintenance Cost /year (% of total machinery cost)	2.%
Growth in maintenance cost (3 %) OR (times)	1.03
Pre-paid land rent (12 months)	120,000
Raw material	0.00
Consumables cost	99,800
Consumables cost (growth rate)	21%
Rent growth rate	5%

COST OF GOODS SOLD ASSUMPTIONS

COGS Growth Rate (21%) OR (times) 1.21

Financial Assumptions

Project Life (Years)	08
Debt	90 <mark>%</mark>
Equity	10%
Interest Rate on Long term debt	8%
Debt Tenure (Years)	8
Debt payments per years	12
Grace Period (Year)	1

ANNEXURE 1

14.1 Income Statement

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
SALES											
Certification	1,200,000	1,386,000	1,600,830	1,848,959	2,135,547	2,466,557	2,848,873	3,290,449	3,800,468	4,389,541	
Verbal identification	360,000	415,800	480,249	554,688	640,664	739,967	854,662	987,135	1,140,141	1,316,862	
	1,560,000	1,801,800	2,081,079	2,403,646	2,776,211	3,206,524	3,703,535	4,277,583	4,940,609	5,706,403	
COST OF SALES											
Consumable	99,800	120,758	146,117	176,802	213,930	258,855	313,215	378,990	458,578	554,880	
Cost of Good Sold	99,800	120,758	146,117	176,802	213,930	258,855	313,215	378,990	458,578	554,880	
Admin & General Expenses											
Electrcity Expenses	84,000	92,400	101,640	111,804	122,984	135,283	148,811	163,692	180,061	198,068	
Internet Charges	12,000	13,200	14,520	15,972	17,569	19,326	21,259	23,385	25,723	28,295	
Repair & Maintanance Charges	20,320	20,930	21,557	22,204	22,870	23,556	24,263	24,991	25,741	26,513	
Payroll Expense (All staff)	840,000	924,000	1,016,400	1,118,040	1,229,844	1,352,828	1,488,111	1,636,922	1,800,615	1,980,676	
Depreciation Expense	57,550	54,673	51,939	49,342	46,875	44,531	42,305	40,189	38,180	36,271	
Computer Maintanance Expenses	-	-	-	-	-	-	-	-	-	-	
Rent Expense	120,000	126,000	132,300	138,915	145,861	153,154	160,811	168,852	177,295	186,159	
Amortization of Preliminary Expenses	8,000	8,000	8,000	8,000	8,000	-	-	-	-	-	
Total Operating Expenses	1,141,870	1,239,202	1,346,356	1,464,277	1,594,004	1,728,679	1,885,560	2,058,032	2,247,614	2,455,982	
Earnings Before Interest & Taxes	318,330	441,840	588,605	762,567	968,278	1,218,990	1,504,760	1,840,561	2,234,416	2,695,541	
Financial Charges on Long Term Loan	115,978	105,074	93,298	80,580	66,845	52,010	35,990	18,687	-	-	
Profit Before Tax	202,352	336,766	495,307	681,987	901,433	1,166,980	1,468,771	1,821,875	2,234,416	2,695,541	
Income Tax	12,141	26,941	49,531	81,838	126,201	186,717	264,379	364,375	491,572	646,930	
Profit After Tax	190,211	309,825	445,777	600,149	775,232	980,263	1,204,392	1,457,500	1,742,845	2,048,611	
Retained Earning at the beginning of year	-	190,211	385,401	661,782	1,027,873	1,493,012	2,071,367	2,769,915	3,600,690	4,576,683	
Dividend (15-20)	-	114,635	169,395	234,058	310,093	401,908	505,845	626,725	766,852	921,875	
Retained Earning at the end of year	190,211	385,401	661,782	1,027,873	1,493,012	2,071,367	2,769,915	3,600,690	4,576,683	5,703,419	

ANNEXURE 2

14.2 Cash Flow

	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Operating Activities											
Net Profit		202,352	336,766	495,307	681,987	901,433	1,166,980	1,468,771	1,821,875	2,234,416	2,695,541
Add:											
Depreciation		57,550	54,673	51,939	49,342	46,875	44,531	42,305	40,189	38,180	36,271
Amortization (Pre Operational Costs)		8,000	8,000	8,000	8,000	8,000	-	-	=	-	-
Net Profit Before Working Capital Changes	-	267,902	399,438	555,246	739,329	956,308	1,211,511	1,511,075	1,862,064	2,272,596	2,731,812
Working Capital Changes											
Upfront Building Rent	(120,000)	(6,000)	(6,300)	(6,615)	(6,946)	(7,293)	(7,658)	(8,041)	(8,443)	(8,865)	(9,308)
Gem Lab Consumables	(99,800)	89,820	(2,096)	(2,536)	(3,068)	(3,713)	(4,493)	(5,436)	(6,578)	(7,959)	(9,630)
W.I.P		(333)	(70)	(85)	(102)	(124)	(150)	(181)	(219)	(265)	(321)
Finished Goods Stock		(2,329)	(489)	(592)	(716)	(866)	(1,048)	(1,268)	(1,535)	(1,857)	(2,247)
Accounts Payable		8,317	1,747	2,113	2,557	3,094	3,744	4,530	5,481	6,632	8,025
Accounts Recievable		(130,000)	(20,150)	(23,273)	(26,881)	(31,047)	(35,859)	(41,418)	(47,837)	(55,252)	(63,816)
Income Tax Paid		(12,141)	(26,941)	(49,531)	(81,838)	(126,201)	(186,717)	(264,379)	(364,375)	(491,572)	(646,930)
Working Capital Changes	(219,800)	(52,666)	(54,299)	(80,518)	(116,994)	(166,150)	(232,181)	(316,192)	(423,505)	(559,137)	(724,227)
Cash manidad bulyand in an archine	(219,800)	215,237	345,139	474,728	622,335	790,158	979,330	1,194,883	1,438,559	1,713,459	2,007,585
Cash provided by/used in operation FINANCING ACTIVITIES	(219,800)	215,257	343,133	4/4,/20	022,333	790,138	979,330	1,134,003	1,430,333	1,713,439	2,007,585
Long term Loan Repayment (Debt Facility)	1,449,720		(126.205)	(147 100)	(158,975)	(171 (02)	(105 420)	(200.262)	(216 202)	(233,586)	(0)
Owner's Equity	1,449,720	-	(136,295)	(147,199)	(158,975)	(171,693)	(185,428)	(200,262)	(216,283)	(233,580)	(0)
Dividend Paid	101,080	-	(114,635)	(169,395)	(234,058)	(310,093)	(401,908)	(505,845)	(626,725)	(766,852)	(921,875)
Dividend Faid	_	-	(114,033)	(109,393)	(234,036)	(310,093)	(401,906)	(303,643)	(020,723)	(700,832)	(921,073)
Cash provided by/used in financing activities	1,610,800	-	(250,930)	(316,594)	(393,033)	(481,785)	(587,336)	(706,107)	(843,008)	(1,000,437)	(921,875)
INVESTING ACTIVITIES			• •	, , ,		•	•	, , ,	• • •		, , ,
Capital Expenditure	(1,191,000)	-	-	-	-	_	-	-	-	-	-
Cash provided by/used in investing activities	(1,191,000)										
Net Cash Flow	200,000	215,237	94,209	158,135	229,302	308,373	391,994	488,776	595,551	713,021	1,085,710
Cash balance B/F	-	200,000	415,237	509,445	667,580	896,882	1,205,255	1,597,249	2,086,025	2,681,576	3,394,597
Cash Balance C/F	200,000	415,237	509,445	667,580	896,882	1,205,255	1,597,249	2,086,025	2,681,576	3,394,597	4,480,307

ANNEXURE 3

14. 3 Balance Sheet

	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<u>ASSETs</u>											
Current Assets											
Cash & Bank Balance	200,000	415,237	509,445	667,580	896,882	1,205,255	1,597,249	2,086,025	2,681,576	3,394,597	4,480,307
Gem Identification Lab Consumables	99,800	9,980	12,076	14,612	17,680	21,393	25,886	31,322	37,899	45,858	55,488
W.I.P		333	403	487	589	713	863	1,044	1,263	1,529	1,850
Finshed Good Stock		2,329	2,818	3,409	4,125	4,992	6,040	7,308	8,843	10,700	12,947
Recievables		130,000	150,150	173,423	200,304	231,351	267,210	308,628	356,465	411,717	475,534
Upfront Building Rent	120,000	126,000	132,300	138,915	145,861	153,154	160,811	168,852	177,295	186,159	195,467
Total	419,800	683,878	807,191	998,426	1,265,441	1,616,857	2,058,059	2,603,179	3,263,341	4,050,560	5,221,593

TOTAL CURRENT ASSETS

Fixed Asset											
AT Cost less: Depreciation	1,151,000	1,093,450	1,038,778	986,839	937,497	890,622	846,091	803,786	763,597	725,417	689,146
Intangible Assets											
Pre-operational Expenses Worth	40,000	32,000	24,000	16,000	8,000	-					
TOTAL ASSETS	1,610,800	1,809,328	1,869,969	2,001,265	2,210,938	2,507,479	2,904,150	3,406,965	4,026,938	4,775,977	5,910,739
LIABILITIES AND EQUITY											
Current Laibilities											
Accounts Payable		8,317	10,063	12,176	14,733	17,828	21,571	26,101	31,583	38,215	46,240
TOTAL CURRENT LIABILITIES		8,317	10,063	12,176	14,733	17,828	21,571	26,101	31,583	38,215	46,240
Non Current Liabilities											
Long term Loan (Debt Facility)	1,449,720	1,449,720	1,313,425	1,166,226	1,007,252	835,559	650,131	449,869	233,586	0	
EQUITY											
Paid Up Capital	161,080	161,080	161,080	161,080	161,080	161,080	161,080	161,080	161,080	161,080	161,080
Retained Earnings		190,211	385,401	661,782	1,027,873	1,493,012	2,071,367	2,769,915	3,600,690	4,576,683	5,703,419
Total Equity	161,080	351,291	546,481	822,862	1,188,953	1,654,092	2,232,447	2,930,995	3,761,770	4,737,763	5,864,499
TOTAL LIABILITIES AND EQUITY	1,610,800	1,809,328	1,869,969	2,001,265	2,210,938	2,507,479	2,904,150	3,406,965	4,026,938	4,775,977	5,910,739
			·		·						