PROJECT REPORT

Of

LITHIUM ION BATTERY

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding Lithium Ion Battery.

The objective of the pre-feasibility report is primarily to facilitate potential entrepreneurs in project identification for investment and in order to serve his objective; the document covers various aspects of the project concept development, start-up, marketing, finance and management.

[We can modify the project capacity and project cost as per your requirement. We can also prepare project report on any subject as per your requirement.]



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PROJECT AT A GLANCE

District: xxxxxxx

Pin: xxxxxxx State: xxxxxxxxx

Mobile xxxxxxx

5 Product and By Product : Lithium Ion Battery

6 Name of the project / business activity proposed : Lithium Ion Battery Manufacturing Unit

7 Cost of Project : Rs.26.66 Lakhs

8 Means of Finance

Term Loan Rs.20 Lakhs
Own Capital Rs.2.67 Lakhs
Working Capital Rs.4 Lakhs

9 Debt Service Coverage Ratio : 1.84

10 Pay Back Period : 5 Years

11 Project Implementation Period : 5-6 Months

12 Break Even Point : 40%

13 Employment : 12 Persons

14 Power Requirement
15 Major Raw materials
16 Cells, Nickle, BMS, Sleeve etc.

Estimated Annual Sales Turnover (Max Utilized

16 Capacity) : 140.06 Lakhs

17 Detailed Cost of Project & Means of Finance

COST OF PROJECT (Rs. In Lakhs)

Particulars	Amount
Land	Own/Rented
Building /Shed 2000 Sq ft	Own/Rented
Plant & Machinery	21.00
Furniture & Fixtures	1.22
Working Capital	4.44
Total	26.66

MEANS OF FINANCE

Particulars	Amount
Own Contribution	2.67
Term Loan	20.00
Working Capital	4.00
Total	26.66

LITHIUM-ION BATTERY

Introduction

A lithium-ion battery or Li-ion battery (abbreviated as LIB) is a type of rechargeable battery. Lithium-ion batteries are commonly used for portable electronics and electric vehicles and are growing in popularity for military and aerospace applications. The technology was largely developed by John Goodenough, Stanley Whittingham, Rachid Yazami and Akira Yoshino during the 1970s–1980s, and then commercialized by a Sony and Asahi Kasei team led by Yoshio Nishi in 1991.

In the batteries, lithium ions move from the negative electrode through an electrolyte to the positive electrode during discharge, and back when charging. Li-ion batteries use an intercalated lithium compound as the material at the positive electrode and typically graphite at the negative electrode. The batteries have a high energy density, no memory effect (other than LFP cells) and low self-discharge. They can however be a safety hazard since they contain a flammable electrolyte, and if damaged or incorrectly charged can lead to explosions and fires. Samsung were forced to recall Galaxy Note 7 handsets following lithium-ion fires, and there have been several incidents involving batteries on Boeing 787s.

Benefits of using Lithium-ion Batteries

Lithium-ion (Li-ion) batteries are inarguably the most popular type of rechargeable battery for consumer electronics. They can be used for a variety of products from mobile phones to cars, and their qualities are superior compared to other rechargeable batteries.

At Night Searcher we use high-quality lithium-ion (Li-ion) batteries for all but a few of our rechargeable flashlights, searchlights, head torches, and floodlights, as they allow us to provide the high-performance, durable products our customers are used to.

Below we've listed the biggest advantages of lithium-ion batteries from the customers' point of view and delved into the science behind each characteristic.

- Eco-friendly: Lithium-ion batteries contain relatively low levels of toxic heavy metals found in other types of batteries, such as lead-acid and nickel-cadmium (NiCd) batteries. Cadmium, lead, and mercury have been battery stalwarts for years, but prolonged exposure to, and inadequate disposal of these metals is harmful to humans, animals, and plants. Although Li-ion batteries are safer than many other types of batteries they still require proper recycling, so never put your used batteries in with your regular rubbish.
- Lightweight and compact: Electrodes commonly used in lithium-ion batteries, lithium and carbon, are lightweight on their own, making for much smaller and lighter batteries than their older counterparts such as lead-acid batteries. For comparison's sake, a typical 51Ah (= ampere-hour) lithium-ion battery weighs about the same as a 24Ah lead-acid battery (about 6-7kg), but provides over twice the capacity.
- High energy density: Lithium is a highly reactive element with the ability to release and store large amounts of energy, allowing li-ion batteries to pack a high energy capacity in a small size. This translates to lithium-ion batteries lasting much longer between charges than other rechargeable batteries, while still maintaining their high level of performance.
- Low maintenance: Older types of rechargeable batteries, such as nickel-cadmium or nickel-metal hydride batteries had a so-called "memory effect", or "lazy battery effect": If they were repeatedly partially discharged before being recharged, ultimately the battery would only deliver the amount of energy that was used during the partial discharges before its voltage would drop. To avoid this, NiCd and NiMH batteries would need to be regularly maintained by completely discharging and recharging them.

Description of Lithium-ion Battery Machine

Different types of machinery are used for Lithium-ion batteries manufacturing unit. Which are as follow:

a) Sorting Machine

- b) Grading Machine
- c) CDS
- d) BMS Testing Machine
- e) Hot Air Gun
- f) Spot welding Machine

Lithium-ion Battery Analysis & Potential

These batteries are utilized in mobile phone, notebook and similar devices there shape and size varies based on application. The lithiumion battery market is expected to grow exponentially in the next five years in India and its recycling offers a \$1000 million opportunity by 2030.

The lithium-ion battery market in India is expected to increase from 2.9 GWh in 2018 to about 132 GWh by 2030 (CAGR of 35.5%). The increasing volume of lithium-ion batteries would, in turn, lead to a growing capacity of 'spent' batteries in the ecosystem which if left untreated would lead to health and environmental hazards.

Initiatives by the centre that will accelerate the growth of lithium-ion battery market in India include National Electric Mobility Mission Plan 2020, with a projection of getting 6-7 million electric vehicles on Indian roads by 2020, installation of 175 GW of renewable energy by 2022.

Lithium-ion Battery Manufacturing Process

- 1. Grading: In this process all the cells are graded before moving towards battery manufacturing process.
- 2. Welding: After grading, welding of cells are done in series and parallel as per customer requirement. Like: voltage
- 3. Soldering: Then solider BMS with the welded battery pack.
- 4. Testing: After soldering test the battery packs and then fix up the BMS with battery.
- 5. Charging & discharging: After the mounting of BMS, we have to check the battery charging and discharging, Whether it is charging or not.

PROJECTED BALANCE SHE	<u>ET</u>				
PARTICULARS	ı	II	III	IV	V
SOURCES OF FUND Capital Account					
Opening Balance	-	3.45	5.91	9.43	13.02
Add: Additions	2.67	-	-	-	<u>-</u>
Add: Net Profit	0.99	3.20	6.02	8.59	11.25
Less: Drawings	0.20	0.75	2.50		7.50
Closing Balance CC Limit	3.45	5.91	9.43	13.02	16.77
Term Loan	4.00 17.78	4.00 13.33	4.00 8.89	4.00 4.44	4.00
Sundry Creditors	0.94	13.33	8.89 1.24	4.44 1.41	- 1.60
Surface Creditors	0.34	1.00	1.24	1.41	1.00
TOTAL:	26.16	24.32	23.55	22.87	22.36
-					
APPLICATION OF FUND					
Fixed Assets (Gross)	22.22	22.22	22.22	22.22	22.22
Gross Dep.	3.27	6.06	8.43		12.18
Net Fixed Assets	18.95	16.16	13.79	11.76	10.04
Current Assets					
Sundry Debtors	2.66	3.17	3.63	4.13	4.67
		. 70	~ ~-		
Stock in Hand	4.20	4.73	5.37	6.07	6.83
Cash and Bank	0.35	0.27	0.77	0.91	0.82
TOTAL :	26.16	24.32	23.55	22.87	22.36
IOTAL:					
	_	=	-	_	_
	-	-	-	-	_

PROJECTED	PROFITABII	LITY STATEMENT	

PARTICULARS	ı	II	III	IV	V
A) SALES					
Gross Sale	79.75	95.00	108.84	123.84	140.06
Total (A)	79.75	95.00	108.84	123.84	140.06
B) COST OF SALES					
Raw Mateiral Consumed	56.25	64.97	74.42	84.65	95.72
Electricity Expenses	1.12	1.23	1.34	1.46	1.57
Repair & Maintenance	0.40	0.47	0.54	0.62	0.70
Labour & Wages	8.78	9.66	10.62	11.68	12.85
Depreciation	3.27	2.79	2.37	2.02	1.72
Cost of Production	69.82	79.12	89.31	100.43	112.56
Add: Opening Stock /WIP	_	2.33	2.56	2.89	3.25
Less: Closing Stock /WIP	2.33	2.56	2.89	3.25	3.64
•					
Cost of Sales (B)	67.49	78.89	88.98	100.07	112.17
C) GROSS PROFIT (A-B)	12.26	16.11	19.87	23.76	27.89
	15.37%	16.96%	18.25%	19.19%	19.91%
D) Bank Interest (Term Loan)	2.17	1.77	1.28	0.79	0.31
ii) Interest On Working Capital	0.44	0.44	0.44	0.44	0.44
E) Salary to Staff	6.27	6.90	7.59	8.35	9.18
F) Selling & Adm Expenses Exp.	2.39	3.80	4.35	4.95	5.60
, ,					
TOTAL (D+E)	11.27	12.91	13.66	14.53	15.53
H) NET PROFIT	0.99	3.20	6.20	9.23	12.36
,	1.2%	3.4%	5.7%	7.5%	8.8%
I) Taxation	-	-	0.19	0.64	1.11
J) PROFIT (After Tax)	0.99	3.20	6.02	8.59	11.25

PROJECTED CASH FLOW STATEMENT							
PARTICULARS	ı	ıı .	III	IV	v		
FARTICULARS	<u>'</u>	"	1111	1 V	V		
SOURCES OF FUND							
Own Contribution	2.67	-					
Net Profit	0.99	3.20	6.20	9.23	12.36		
Depreciation & Exp. W/off	3.27	2.79	2.37	2.02	1.72		
Increase In Cash Credit	4.00						
Increase In Term Loan	20.00	-	-	-	-		
Increase in Creditors	0.94	0.15	0.16	0.17	0.18		
TOTAL :	31.86	6.14	8.74	11.43	14.27		
APPLICATION OF FUND							
Increase in Fixed Assets	22.22						
Increase in Stock	4.20	- 0.52	- 0.64	- 0.70	- 0.76		
Increase in Debtors	2.66	0.52	0.46	0.70	0.76		
Repayment of Term Loan	2.22	4.44	4.44	4.44	4.44		
Taxation	-	-	0.19	0.64	1.11		
Drawings	0.20	0.75	2.50	5.00	7.50		
TOTAL:	31.50	6.23	8.24	11.28	14.35		
Opening Cash & Bank Balance	-	0.35	0.27	0.77	0.91		
Add : Surplus	0.35 -	0.09	0.50	0.14	- 0.09		
Closing Cash & Bank Balance	0.35	0.27	0.77	0.91	0.82		

COMPUTATION OF LITHIUM ION BATTERY MANUFACTURING UNIT

Items to be Manufactured Lithium Ion Battery

<u> </u>		
Manufacturing Capacity per Day	50.00	Batteries
No. of Working Hour	8	
No of Working Days per month	25	
No. of Working Day per annum	300	
Total Production per Annum	15,000	Batteries
Voor	Canacity	Lithium Ion
Year	Capacity	Battery
	Utilisation	Dattery
	Utilisation	
1	50%	7,500
ll l	55%	
iii	60%	
IV	65%	
V	70%	
		·

COMPUTATION OF RAW MATERIAL

Item Name	Quantity of Raw Material	Unit	Unit Rate of	Total CostPer Annum (100%)
Raw Material Consumed	15,000.00		750.00	11,250,000.00
Total	15,000.00			11,250,000.00

Total Raw material in Rs lacs at 100% Capacity 112.50
Cost per Battery (In Rs) 750.00

Raw Material Consumed	Capacity Utilisation	Rate Am	ount (Rs.)
1	50%	750.00	56.25
II	55%	787.50	64.97
III	60%	826.90	74.42
IV	65%	868.20	84.65
V	70%	911.60	95.72

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

PARTICULARS	I	II	Ш	IV	٧
Finished Goods					
(10 Days requirement)	2.33	2.56	2.89	3.25	3.64
Raw Material					
(10 Days requirement)	1.88	2.17	2.48	2.82	3.19
Closing Stock	4.20	4.73	5.37	6.07	6.83

COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars	Amount	Margin(10%)	Net
			Amount
Stock in Hand	4.20		
Less:			
Sundry Creditors	0.94		
Paid Stock	3.26	0.33	2.94
Sundry Debtors	2.66	0.27	2.39
Working Capital Requi	rement		5.33
Margin			0.59
MPBF			5.33
Working Capital Dema	nd		5.00

BREAK UP OF LABOUR

Particulars		Wages	No of	Total
		Per Month	Employees	Salary
Plant Operator		15,000.00	1	15,000.00
Unskilled Worker		8,500.00	4	34,000.00
Helper		5,000.00	2	10,000.00
Security Guard		7,500.00	1	7,500.00
				66,500.00
Add: 10% Fringe Benefit				6,650.00
Total Labour Cost Per Month				73,150.00
Total Labour Cost for the year (In Rs. Lakhs)	•		8	8.78

BREAK UP OF SALARY

Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Accountant cum store keeper	10,000.00	1	10,000.00
Administrative Staffs	12,500.00	3	37,500.00
Total Salary Per Month			47,500.00
Add: 10% Fringe Benefit			4,750.00
Total Salary for the month			52,250.00
Total Salary for the year (In Rs. Lakhs)		4	6.27

COMPUTATION OF DEPRECIATION

			Plant &		
Description	Land	Building/shed	Machinery	Furniture	TOTAL
Rate of Depreciation			15.00%	10.00%	
Opening Balance	Own/Rented			10.00 /6	
•	OV	VII/Refiled	-	04.00	
Addition	-		21.00	1.22	22.22
	-		21.00	1.22	22.22
TOTAL		-	21.00	1.22	22.22
Less : Depreciation	-	-	3.15	0.12	3.27
WDV at end of 1st year	-	-	17.85	1.10	18.95
Additions During The Year	-	-	-	-	-
	-	-	17.85	1.10	18.95
Less : Depreciation	-	-	2.68	0.11	2.79
WDV at end of IInd Year	-	-	15.17	0.99	16.16
Additions During The Year	-	-	-	-	-
	-	-	15.17	0.99	16.16
Less : Depreciation	-	-	2.28	0.10	2.37
WDV at end of IIIrd year	-	-	12.90	0.89	13.79
Additions During The Year	-	-	-	-	-
<u>-</u>	-	-	12.90	0.89	13.79
Less : Depreciation	-	-	1.93	0.09	2.02
WDV at end of IV year	-	-	10.96	0.80	11.76
Additions During The Year	-	-	-	-	-
	-	-	10.96	0.80	11.76
Less : Depreciation	-	-	1.64	0.08	1.72
WDV at end of Vth year	-	-	9.32	0.72	10.04

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arter	11.11	-				
		-	11.11	0.31	1 11	10.00
arter	10.00			0.0.	1.11	
			10.00	0.27	1.11	8.89
				1.28	4.44	
g Balance						
ter	8.89	-	8.89	0.24	1.11	7.78
arter	7.78	-	7.78	0.21	1.11	6.67
		-				5.56
arter	5.56		5.56			4.44
g Balance				0.79	4.44	
ter	4.44	_	4.44	0.12	1.11	3.33
arter	3.33	-	3.33	0.09	1.11	2.22
arter	2.22	-	2.22	0.06	1.11	1.11
arter	1.11		1.11	0.03	1.11	- 0.00
				0.31	4.44	
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CALCULATION OF D.S.C.R

PARTICULARS	I	II	III	IV	V
0.4011.400.0011.41.0	4.00		2.22	40.00	40.07
CASH ACCRUALS	4.26	5.99	8.39	10.62	12.97
Interest on Term Loan	2.17	1.77	1.28	0.79	0.31
Total	6.43	7.76	9.68	11.41	13.28
REPAYMENT					
Repayment of Term Loan	2.22	4.44	4.44	4.44	4.44
Repayment of Term Loan	2.22	4.44	4.44	4.44	4.44
Interest on Term Loan	2.17	1.77	1.28	0.79	0.31
Total	4.39	6.22	5.73	5.24	4.75
DEBT SERVICE COVERAGE RATIO	1.46	1.25	1.69	2.18	2.80
AVERAGE D.S.C.R.			1.84		

COMPUTATION OF SALE

Particulars	ı	II	III	IV	V
Op Stock	-	250.00	275.00	300.00	325.00
Droduction	7.500.00	0.250.00	0.000.00	0.750.00	10 500 00
Production	7,500.00	8,250.00	9,000.00	9,750.00	10,500.00
	7,500.00	8,500.00	9,275.00	10,050.00	10,825.00
Less : Closing Stock(10 Days)	250.00	275.00	300.00	325.00	350.00
Net Sale	7,250.00	8,225.00	8,975.00	9,725.00	10,475.00
Avg Sale Price per Battery	1,100.00	1,155.00	1,212.75	1,273.39	1,337.06
Sale (in Lacs)	79.75	95.00	108.84	123.84	140.06

COMPUTATION OF ELECTRICITY

COMPUTATION OF EL		-		
(A) POWER CONNECT	<u>ION</u>			
Total Working Hour per day		Hours	8	
Electric Load Required		HP 10		
Load Factor		0.7460		
Electricity Charges		per unit	per unit 7.50	
Total Working Days			300	
Electricity Charges				1.34
Add: Minimim Charges	(@ 10%)			
(B) DG set				
No. of Working Days			300	days
No of Working Hours			0.5	Hour per day
Total no of Hour			150	aay
Diesel Consumption per Hour			8	
Total Consumption of D			1,200	
Cost of Diesel			65.00	Rs. /Ltr
Total cost of Diesel			0.78	
Add: Lube Cost @15%	1		0.12	
Total			0.90	
Total cost of Power & Fu	 uel at 100%			2.24
Year		Capacity		Amount
		_		(in Lacs)
ļ		50%		1.12
II		55%		1.23
III		60%		1.34
IV		65%		1.46
V		70%		1.57



DISCLAIMER

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