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# ***Detailed Project Report*** ***on*** ***Insulated Van***

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**Under MKUY**

**Name of the Entrepreneur/Entity:**

**Address:**



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## 1. Project Summary

1	Name of the Enterprise (as per the Illustrative List of Enterprises)	Insulated Van
2	Sector (as per the Illustrative List of Enterprises)	Fisheries
3	Project Capacity <sup>1</sup>	10 MT Insulated Truck
4	Key components of the project	
5	Project Address (Village/Ward, Gram Pranchayat/Municipality, Block, District)	
6	Products/Output from the project	Perishable Product Transportation
7	Total Project Cost	Rs. 20,60,000
8	Fixed Capital Cost	Rs. 20,00,000
9	Working/Recurring capital	60,000
10	Bank Finance/ Self Finance	Bank Loan
11	Bank Loan Amount	Rs. 18,36,000
12	Promoter Contribution (min 10% in case of bank loan)	Rs. 2,04,000
13	Assumed Rate of Interest	11%
14	Subsidy Eligibility (40%, 50%)	
15	Repayment Terms (Tenure, Moratorium, Frequency, Mode of Repayment: equal principal/equal instalment)	Equal Monthly Instalment
16	Key Financial Indicators:	
	1. Average Annual Net Profit	Rs. 4,81,741
	2. Debt Service Coverage Ratio (DSCR)	1.60
	3. Internal Rate of Return	23.27%
	4. Break Even Year	3 Years and 7 Months
17	Estimated employment to be generated (nos.)	2

**Note: The price quoted in the DPR is indicative. Final CIS will be calculated as per the Rate in MKUY guideline.**

<sup>1</sup> Capacity can be in terms of area or quantity



## 2. Project Profile

### 2.1 Entrepreneur/Entity Profile

1	Name of the Entrepreneur/Entity	
2	Legal status (Individual/ Group/ FPO/ FPC/ Proprietorship/ Partnership firm/ Company/ Cooperative/ Federation/ Society/ Trust)	
3	Name of Representative <sup>2</sup> in Ease of entity	
4	Gender (Male/ Female/ Third Gender/ Not Applicable)	
5	Date of Birth of Individual/Representative of Entity	
6	Date of Incorporation/Registration of Entity	
7	Category opted for (Women/ ST/ SC/ Differently Abled/ Third gender/ Agri & Allied Graduate)	
8	Educational Qualification of Individual/Representative of Entity	
9	Passport size photograph of the Individual/ Representative of entity	
10	Local Address for Correspondence of the Individual/ Representative of entity	
11	Registered Address of Entity	
12	Main Office/Branch Address of Entity	
13	Phone no. of Individual/Representative of Entity	
14	Email Id of Individual/Representative of Entity	
15	AADHAR No. of Individual/Representative	
16	PAN of Individual/Representative of Entity, if available	
17	Farmer Id of Individual, if available	
18	Details of other Partner/Director/ President/Secretary	
19	Registration No./ CIN of the Entity <sup>3</sup>	
20	PAN/TAN of Entity	
21	GSTIN of Entity, if available	
22	Details of experience and exposure relevant to the proposed enterprise/project (family business, work experience, e- learning/certificate courses, trainings undertaken etc.)	

<sup>2</sup> Representative should be authorized by the board/governing body of the entity.

<sup>3</sup> Registration document:

Groups (SHG/PG/: FPO: Proprietorship firm: Registration Certificate under Shops & Establishment Act, Partnership firm: Registration Certificate from IGR of state, Company (Pvt. Ltd., Public Ltd., LLP, OPC, FPC): Certification of Incorporation, Cooperative/ Federation: Certificate of Registration from Registrar of Cooperative Societies, Society/Trust: Darpan Unique Id



## 2.2. Project Consultant Details

DPR prepared by:

Please provide further details of the consultant:





## 2.3. Concept and Scope of the Project

Cold chain transportation plays an integral role in ensuring the smooth movement of various products. The cold chain transportation in India is mainly carried by roadways as there is laxity in the development of rail mode of cold chain transportation. Basically, there are modes of cold chain transportation by roadways i.e., refrigerated vehicle or insulated vehicle. Refrigerated vehicles are used for highly perishable and temperature sensitive items such as milk, ice cream, butter, cheese, curd, frozen cream, frozen RTE/RTC, fruits and vegetables etc., when transporting for long distance. However, insulated vehicles are used for transporting perishable items within city or shorter distance,

### Market Demand

In India, the expanding cold chain logistics sector coupled with the growing number of food retail services is primarily driving the demand for Insulated trucks. In line with this, the rising consumer inclination towards frozen, chilled, and processed food items due to hectic work schedules and sedentary lifestyles is also propelling the market growth. Additionally, the wide availability of frozen meat, ready-to-cook snacks, seasonal fruits and vegetables, etc., across diverse brick-and-mortar and online distribution channels is further augmenting the deployment of insulated trucks for supply-based applications. Several food retailers are focusing on the adoption of advanced-cold chain transportation facilities for efficient management of their supply chains. Apart from this, a significant growth in the healthcare sector along with the rising demand for safe transportation of temperature-sensitive products, such as vaccines, biopharmaceuticals, clinical trial materials, etc., is also catalyzing the market. Moreover, the increasing investments in the development of advanced medical facilities and research laboratories are further bolstering the need for refrigerated trucks to preserve heat-labile biological materials during transportation activities. In the coming years, the emergence of hybrid insulated trucks with phase change material (PCM) technology offering improved energy efficiency and enhanced operational features will continue to drive the market growth in India.

Out of the 105 million ton of perishable goods transported across India each year, only 4 million ton is transported via reefers route; and the perishable goods loss amounts to Rs. 1 lakh crores! Though more than 30,000 reefers ply all across India, most are run by unorganised and small service providers. While the percentage of fruits and vegetables movement thro' cold chain in the US is 85%, Thailand 40% in India it's negligible – throwing up clearly the enormous business opportunities for the domain players.



### 3. Techno-commercial Assumptions

Sl. No.	Parameter	Value	Unit
1	Increase in Rate of Transportation	7	%
2	Increase in Diesel Price	5	%
3	Collection from Debtors ( First Year)	15	Days
4	Collection from Debtors	15	Days
5	Payable to Creditors	15	Days
6	Drawing By Promoter	50	%
7	Increase in Staff Salary	5	%
8	Rate of Interest on TL	11	%
9	Rate of Interest on WC	9	%
10	Loan Repayment (in year)	7	Years
11	Raw Material in Stock (Diesel)	5	Days
12	Finished Goods in stock ( on sales)	0	Days
13	Promoter's Contribution (Term Loan)	10	%
14	Promoter's Contribution (Working Capital)	10	%
15	Working Capital Requirement	10	Days
17	Working Capital Utilisation	100	%
18	Distance travel during the day (to and fro)	400	Km
19	Average Mileage for First Year	10	km/lit.
20	Average Mileage for 2nd Year to 4th Year	8	km/lit.
21	Average Mileage for 5th Year to 7th Year	7	km/lit.
22	Rate of Diesel	97	Rs/lit.
23	Repair and Maintenance Cost for First Year	1	%
24	Repair and Maintenance Cost for 2nd to 4th Year	5	%
25	Repair and Maintenance Cost for 5th to 7th Year	7	%
26	No. of Working Days	300	Days

### 4. Financial Details

#### 4.1. Project Fixed Capital

Details of Fixed Assets					
Sl. No.	Particulars	Unit	Qty.	Cost per unit (Rs)	Total (Rs)
<b>A</b>	<b>Land</b>				
1	Land Development	NA	NA	NA	0
2	Fencing (Barbed wire/Green Fencing)	NA	NA	NA	0
	<b>Sub Total</b>				
<b>B</b>	<b>Civil Construction</b>				
1	Garage Cum Office	sq. ft	200	300.00	60,000
	<b>Sub Total</b>				60,000
<b>C</b>	<b>Water Supply</b>				
1	NA	NA	NA	NA	0
<b>D</b>	<b>Electrification</b>				
1	NA	NA	NA	NA	0



Details of Fixed Assets					
Sl. No.	Particulars	Unit	Qty.	Cost per unit (Rs)	Total (Rs)
<b>E</b>	<b>Plant &amp; Machinery</b>				
Sl. No.	Particulars	Specification	Qty.	Unit Price (Rs)	Total (Rs)
1	Vehicle	Tata LPT 909 HEX2 BS-IV	1	1400000	14,00,000
2	Insulated Container	Puff insulated, PPGI	1	50000	5,00,000
	<b>Total</b>				<b>19,00,000</b>
<b>F</b>	<b>Miscellaneous Expenditure</b>				
1	Insurance premium of assets				30,000
2	DPR Cost				4,838
3	Other miscellaneous exp				5,162
	<b>Total Miscellaneous Expenditure</b>				<b>40,000</b>

#### 4.2. Project Variable Expenses

Details of Recurring Expenditure						
<b>A</b>	<b>Details of raw material (per annum @ 100%)</b>					
Sl. No.	Items	Unit	Rate per lit. (Rs)	Qty. per day (lit)	Qty. per annum (lit.)	Total (Rs)
1	Diesel		97.00	50	15,000	14,55,000
	<b>Total</b>					<b>14,55,000</b>

Details of salary and other benefits				
Sl. No.	Type of Workers	No. of Worker	Salary Per Month/head (Rs)	Total Salary per Annum (Rs)
1	Driver	1	18,000	2,16,000
2	Helper	1	8,000	96,000
	<b>Grand Total</b>	<b>2</b>	<b>26,000</b>	<b>3,12,000</b>

#### 4.3. Details of Sales

Details of sales						
Sl. No.	Type of products	Unit	Rate per km (Rs)	Dist. per day (km)	Dist. per annum (km)	Total (Rs)
1	Transportation Charges	Km	22	400	1,20,000	26,40,000
	<b>Total</b>					<b>26,40,000</b>





#### 4.4. Project Balance Sheet

<b>Liabilities</b>	<b>Y1</b>	<b>Y2</b>	<b>Y3</b>	<b>Y4</b>	<b>Y5</b>	<b>Y6</b>	<b>Y7</b>
<b>Opening Capital</b>	-	<b>3,12,954</b>	<b>3,02,318</b>	<b>3,51,987</b>	<b>4,30,307</b>	<b>4,90,800</b>	<b>5,69,618</b>
Add: Introduced	2,06,000						
Add: Profit	2,13,954	2,92,364	4,01,669	5,10,320	5,52,493	6,49,818	7,51,571
Less: Drawing	1,07,000	3,03,000	3,52,000	4,32,000	4,92,000	5,71,000	6,61,000
<b>Closing Capital</b>	<b>3,12,954</b>	<b>3,02,318</b>	<b>3,51,987</b>	<b>4,30,307</b>	<b>4,90,800</b>	<b>5,69,618</b>	<b>6,60,189</b>
Term Loan from Bank	16,19,221	14,17,523	11,92,485	9,41,405	6,61,270	3,48,719	-
Current Liabilities							
Cash Credit from Bank	54,000	54,000	54,000	54,000	54,000	54,000	54,000
Sundry Creditors	65,475	77,850	83,300	89,150	95,400	1,02,100	1,09,250
Expenses Payable	32,500	46,500	49,100	51,900	60,700	64,200	68,000
Current Provisions	-	2,230	7,983	18,205	28,748	53,080	78,518
<b>Total Current Liabilities</b>	<b>1,51,975</b>	<b>1,80,580</b>	<b>1,94,383</b>	<b>2,13,255</b>	<b>2,38,848</b>	<b>2,73,380</b>	<b>3,09,768</b>
<b>Total Liabilities</b>	<b>20,84,150</b>	<b>19,00,421</b>	<b>17,38,854</b>	<b>15,84,967</b>	<b>13,90,919</b>	<b>11,91,717</b>	<b>9,69,957</b>
<b>Assets</b>							
Fixed Assets	20,00,000	20,00,000	20,00,000	20,00,000	20,00,000	20,00,000	20,00,000
Less Depreciation	2,91,000	5,38,650	7,49,423	9,28,822	10,81,531	12,11,529	13,22,206
<b>Net Fixed Assets</b>	<b>17,09,000</b>	<b>14,61,350</b>	<b>12,50,578</b>	<b>10,71,178</b>	<b>9,18,469</b>	<b>7,88,471</b>	<b>6,77,794</b>
Current Assets							
Sundry Debtors	1,18,800	1,41,300	1,51,200	1,61,800	1,73,100	1,85,300	1,98,300
Inventories	21,900	26,000	27,800	29,800	31,800	34,100	36,500
Cash and Bank Balance	23,800	28,300	30,300	32,400	34,700	37,100	39,700
Other Current Assets	2,10,650	2,43,471	2,78,976	2,89,789	2,32,850	1,46,747	17,662
<b>Total Current Assets</b>	<b>3,75,150</b>	<b>4,39,071</b>	<b>4,88,276</b>	<b>5,13,789</b>	<b>4,72,450</b>	<b>4,03,247</b>	<b>2,92,162</b>
<b>Total Assets</b>	<b>20,84,150</b>	<b>19,00,421</b>	<b>17,38,854</b>	<b>15,84,967</b>	<b>13,90,919</b>	<b>11,91,717</b>	<b>9,69,957</b>



#### 4.5. Calculation of Depreciation

Rates of Depreciation		10%	15%	Total depreciation for the year (Rs)
Year	1	6,000.00	2,85,000	2,91,000
	2	5,400.00	2,42,250	2,47,650
	3	4,860.00	2,05,913	2,10,773
	4	4,374.00	1,75,026	1,79,400
	5	3,936.60	1,48,772	1,52,708
	6	3,542.94	1,26,456	1,29,999
	7	3,188.65	1,07,488	1,10,676

#### 4.6. Projected P&L

Description	Year ending March 31st						
	Y1	Y2	Y3	Y4	Y5	Y6	Y7
Capacity Utilisation	90	100	100	100	100	100	100
<b>Revenue</b>							
Sales	90	100	100	100	100	100	100
Opening Stock of Finished Goods							
Closing Stock of Finished Goods	23,76,000	28,25,000	30,23,000	32,35,000	34,62,000	37,05,000	39,65,000
<b>Total Income (A)</b>	-	-	-	-	-	-	-
<b>Expenditure</b>	-	-	-	-	-	-	-
Opening stock of Raw Material	23,76,000	28,25,000	30,23,000	32,35,000	34,62,000	37,05,000	39,65,000
Purchase (Net) of Material							
Closing Stock of Raw material	-	21,900	26,000	27,800	29,800	31,800	34,100
<b>Raw Material Consumption</b>	13,09,500	15,57,000	16,66,000	17,83,000	19,08,000	20,42,000	21,85,000
Repair & Maintenance)	21,900	26,000	27,800	29,800	31,800	34,100	36,500
Insurance cost	12,87,600	15,52,900	16,64,200	17,81,000	19,06,000	20,39,700	21,82,600
Administrative salaries and wages	23,760	1,41,250.00	1,51,150.00	1,61,750.00	2,42,340.00	2,59,350.00	2,77,550.00
Other Misc Expenses [@1% of sales]	30,000	31,500	33,100	34,800	36,600	38,500	40,500
<b>Total Cost</b>	3,12,000	3,27,600	3,44,000	3,61,200	3,79,300	3,98,300	4,18,300
<b>Profit Before Depreciation, Interest and Tax</b>	23,760	56,500	60,460	64,700	69,240	74,100	79,300
Depreciation	16,77,120	21,09,750	22,52,910	24,03,450	26,33,480	28,09,950	29,98,250



Description	Year ending March 31st						
	Y1	Y2	Y3	Y4	Y5	Y6	Y7
<b>Profit Before Interest and Tax</b>	<b>6,98,880</b>	<b>7,15,250</b>	<b>7,70,090</b>	<b>8,31,550</b>	<b>8,28,520</b>	<b>8,95,050</b>	<b>9,66,750</b>
Interest on Term Loan	2,91,000	2,47,650	2,10,773	1,79,400	1,52,708	1,29,999	1,10,676
Interest on Working Capital Loan	<b>4,07,880</b>	<b>4,67,600</b>	<b>5,59,318</b>	<b>6,52,150</b>	<b>6,75,812</b>	<b>7,65,051</b>	<b>8,56,074</b>
<b>Total Interest Paid</b>	1,89,066	1,68,146	1,44,806	1,18,765	89,710	57,293	21,125
<b>Profit Before Tax</b>	4,860	4,860	4,860	4,860	4,860	4,860	4,860
Income Tax	<b>1,93,926</b>	<b>1,73,006</b>	<b>1,49,666</b>	<b>1,23,625</b>	<b>94,570</b>	<b>62,153</b>	<b>25,985</b>
<b>Profit after Tax</b>	<b>2,13,954</b>	<b>2,94,594</b>	<b>4,09,651</b>	<b>5,28,525</b>	<b>5,81,241</b>	<b>7,02,898</b>	<b>8,30,088</b>

#### 4.7. Projected Cash Flow

Period Ending:	Y1	Y2	Y3	Y4	Y5	Y6	Y7
Cash & Bank Balance at Beginning	-	23,800	28,300	30,300	32,400	34,700	37,100
<b>Cash Inflow during the Period</b>	23,75,150	5,68,619	6,26,244	7,08,593	7,87,734	9,00,451	10,27,719
<b>Cash Outflow during the Period</b>	23,51,350	5,64,119	6,24,244	7,06,493	7,85,434	8,98,051	10,25,119
<b>Closing Cash &amp; Bank Balance</b>	<b>23,800</b>	<b>28,300</b>	<b>30,300</b>	<b>32,400</b>	<b>34,700</b>	<b>37,100</b>	<b>39,700</b>

#### 4.8. Projected Loan Repayment

Year	Interest	EMI	Principal
1	1,89,065.90	3,69,844.63	1,80,778.73
2	1,68,146.39	3,69,844.63	2,01,698.23
3	1,44,806.11	3,69,844.63	2,25,038.52
4	1,18,764.91	3,69,844.63	2,51,079.71
5	89,710.26	3,69,844.63	2,80,134.37
6	57,293.44	3,69,844.63	3,12,551.19
7	21,125.38	3,69,844.63	3,48,719.25
<b>Total</b>	<b>7,88,912.39</b>	<b>25,88,912.39</b>	<b>18,00,000.00</b>



#### 4.9. Calculation of DSCR, IRR and BEP

Calculation of DSCR							
Year	Y1	Y2	y3	Y4	Y5	Y6	Y7
Net Sales	23,76,000	28,25,000	30,23,000	32,35,000	34,62,000	37,05,000	39,65,000
Net Profit	2,13,954	2,92,364	4,01,669	5,10,320	5,52,493	6,49,818	7,51,571
Interest Paid	1,93,926	1,73,006	1,49,666	1,23,625	94,570	62,153	25,985
<b>Cash Accruals (a)</b>	<b>4,07,880</b>	<b>4,65,370</b>	<b>5,51,335</b>	<b>6,33,945</b>	<b>6,47,063</b>	<b>7,11,972</b>	<b>7,77,556</b>
Principal	1,80,779	2,01,698	2,25,039	2,51,080	2,80,134	3,12,551	3,48,719
Interest	1,93,926	1,73,006	1,49,666	1,23,625	94,570	62,153	25,985
<b>Total (b)</b>	<b>3,74,705</b>	<b>3,74,705</b>	<b>3,74,705</b>	<b>3,74,705</b>	<b>3,74,705</b>	<b>3,74,705</b>	<b>3,74,705</b>
DSCR	1.09	1.24	1.47	1.69	1.73	1.90	2.08
<b>Average DSCR</b>	<b>1.60</b>						

Calculation of Break-Even Point (BEP)							
Sales	23,76,000	28,25,000	30,23,000	32,35,000	34,62,000	37,05,000	39,65,000
Variable Cost	13,11,360	16,09,400	17,24,660	18,45,700	19,75,240	21,13,800	22,61,900
<b>Contribution</b>	<b>10,64,640</b>	<b>12,15,600</b>	<b>12,98,340</b>	<b>13,89,300</b>	<b>14,86,760</b>	<b>15,91,200</b>	<b>17,03,100</b>
Fixed Cost	8,50,686	9,21,006	8,88,689	8,60,775	9,05,519	8,88,302	8,73,012
<b>BEP Sales</b>	<b>18,98,510</b>	<b>21,40,378</b>	<b>20,69,185</b>	<b>20,04,323</b>	<b>21,08,548</b>	<b>20,68,351</b>	<b>20,32,465</b>
<b>Average BEP sales</b>	<b>20,45,966</b>						

Calculation of Internal Rate of Return (IRR)				
Sl. No.	Year	PAT	Depreciation	Cash Accrual
	Cash outflow at beginning			-20,60,000
1	31-03-2023	2,13,954	2,91,000	5,04,954
2	31-03-2024	2,92,364	2,47,650	5,40,014
3	31-03-2025	4,01,669	2,10,773	6,12,441
4	31-03-2026	5,10,320	1,79,400	6,89,720
5	31-03-2027	5,52,493	1,52,708	7,05,201
6	31-03-2028	6,49,818	1,29,999	7,79,817
7	31-03-2029	7,51,571	1,10,676	8,62,247
<b>IRR</b>		<b>23.27%</b>		
<b>Payback Period</b>	<b>3 Years 7 Months</b>			



#### 4.10. Summary of Project Cost

Sl. No.	Name of Assets	Amount (Rs)
1	Land Development	-
2	Civil Construction	60,000
3	Irrigation/Water Supply	-
4	Electrification	-
5	Plant & Machinery	19,00,000
6	Livestock	-
7	Insurance	30,000
8	DPR Cost	4,838
9	Other miscellaneous exp.	5,162
	<b>Total Fixed Cost</b>	<b>20,00,000</b>
	<b>Recurring</b>	<b>60,000</b>
	<b>Cost of Project</b>	<b>20,60,000</b>