

<b>ACCUMAX</b>	<b>Accumax Lab Devices Pvt. Ltd.</b>	<b>Doc. No.</b>	<b>: F/EHS/42</b>
	<b>Carbon Footprint Report (GHG Emission)</b>	<b>Rev. No.</b>	<b>: 00</b>
		<b>Effective Date</b>	<b>: 01.04.2023</b>

<b>Report on Dated:</b>	20/04/2024	<b>Report No.</b>	02/2024
<b>Period Covered:</b>	April-2023 to March-2024	<b>Report Prepared By:</b>	Piyush Giri Goswami

## A. Objective of the Report

This report contains the **Accumax Lab Devices Pvt Ltd.** GHG Inventory for **Scope 1, Scope 2. Scope 3** (upstream, downstream, employee commute) employee business travel is not currently considered for the monitoring.

The purpose of this report to know the GHG Inventory level, and work towards reducing our GHG Emissions as a responsible organization and work towards meeting the Net Zero Target by 2040

This report is a consolidation of GHG Emission reports of all manufacturing sites and offices.

## B. Organizational Boundaries

For reporting purpose of Scope1, Scope 2 and Scope 3, all sites under **Accumax Lab Devices Pvt Ltd** are considered as below, all sites are located in INDIA.

**Accumax Lab Devices Pvt Ltd- Medha (Manufacturing Site)**

**Accumax Lab Devices Pvt Ltd- Gandhinagar (Manufacturing Site)**

**Accumax Lab Devices Pvt Ltd- Dantali (H.O.)**

## C. Reporting Period & Frequency

The period covered under this report is from **April'2023 to March'24** and will be updated once in a year.

### Responsible person for reporting:

**Mr. Piyush Giri Goswami- EHS Head** – Certified auditor for ISO 14001:2015 and ISO 45001:2015, his responsible for preparing annual GHG emission report and gathering data for one year and produce report of GHG emissions.

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#### D. Data selection and collection used for the quantification

GHG Scope	Data type	Unit	Data source	Frequency of collection
Direct emissions (Scope 1)	Liquefied Natural Gas consumption	M3	Gas Bill	Monthly
	Diesel (HSD) Consumption	Kilo liters	Diesel Bill	Monthly
Indirect emission (Scope 2)	Electricity consumption	Kwh	Bills from electricity service provider reports	Monthly
Indirect emission (Scope 3)	Material Transportation purchase and Sale	Kilometers	SAP data converted to kilometers by pin code to pin code distance using google search	Monthly
	Employee commute by bus, car	kilometers	Estimated data of daily commute x number of worked days (employee attendance record)	Monthly

#### E. Conversion Factors used for the Calculation

Data type	Input Unit	Output Unit CO <sub>2</sub> e	Conversion Factor	Reference
<b>Scope 1</b>				
Diesel	K L	MT	2.64	India GHG Program
LPG	M T	MT	2.98	India GHG Program
<b>Scope 2</b>				
Electricity	Kwh	MT	0.00082	India GHG Program
<b>Scope 3</b>				
Material Transportation by road	Kilomete r	MT	0.000881543	India GHG Program
Material Transportation by sea	Kilomete r	MT	0.02 tonne.km	UNFCCC GHG Emissions calculator

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Employee commute Company bus	Kilometre	MT	0.0005289	India GHG Program
Employee commute Company car (Diesel)	Kilometre	MT	0.000176	India GHG Program
Employee commute Company car (Petrol)	Kilometre	MT	0.000189	India GHG Program
Tree plantation	M T	MT	0.023 Unit / year	<a href="https://www.epd.gov.hk/epd/sites/default/files/epd/gn_pdf/GN2014P097-2014c-e.pdf">https://www.epd.gov.hk/epd/sites/default/files/epd/gn_pdf/GN2014P097-2014c-e.pdf</a>

### F. Scope 1 Direct Emission in MT of Co2 equivalent

	Type & Its Consumption			Month	Scope Co2 Emission in MT
	Diesel in LTR	Petrol in LTR	LPG in LTR		
	1116	258	579.5	April-23	4.48
	955	285	518.5	May-23	4.01
	1156	263	457.5	June-23	4.41
	1706	260	518.5	July-23	5.98
	2010	289	579.5	Aug-23	6.96
	1864	305	579.5	Sep-23	6.60
	2012	330	485	Oct-23	6.92
	1704	287	480	Nov-23	5.98
	1813	290	490	Dec-23	6.30
	1373	286	520	Jan-24	5.14
	1180	285	420	Feb-24	4.47
	1960	274	480	March-24	6.64
<b>Total</b>	<b>18849</b>	<b>3412</b>	<b>6108</b>		<b>67.90</b>
<b>Average</b>	<b>1570.8</b>	<b>284.33</b>	<b>509</b>		<b>5.66</b>

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### G. Scope 2 In Direct Emission in MT of Co2 equivalent

	Type & Its Consumption		Month	Scope Co2 Emission in MT
	Electricity KWH	Renewable Energy KWH		
	292398	59258	April-23	184.18
	264889	71970	May-23	152.41
	379664	51150	June-23	259.53
	475289	39603	July-23	344.19
	575583	48818	Aug-23	416.14
	609116	36671	Sep-23	452.23
	607708	31838	Oct-23	454.94
	395423	39180	Nov-23	281.43
	336283	44345	Dec-23	230.63
	368190	47096	Jan-24	253.66
	393305	48808	Feb-24	272.15
	415393	60038	March-24	280.73
<b>Total</b>	<b>5113241</b>	<b>578775</b>		<b>3582.23</b>
<b>Average</b>	<b>426101</b>	<b>42231</b>		<b>298.52</b>

### H. Scope 3 Emission -Domestic Sales Material Transport – Downstream

Plant	Year	Total Domestic Kilometer	Total Qty Domestic Sale MT	Total eq. CO2 - Domestic in MT	Specific CO2e MT/ MT of Material Sale	Specific CO2e Kg/ MT of Material Sale
Medha	2023-24	974976	58719	859.5	0.01464	14.64
Gandhinagar	2023-24	259236	4521.375	228.5	0.05054	50.54
<b>Total</b>				<b>1088</b>		<b>65.28</b>

### I. Scope 3 Emission -Export Sales Material Transport – Downstream

Plant	Year	Total Ton of Material export in MT	Total Ton of CO2 eq. of export Material in MT	Specific CO2e MT/ MT of Material export	Specific CO2e Kg/ MT of Material export
Gandhinagar & Medha	2023-2024	7517.475	1141.75	0.15	151.87

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### J. Scope 3 Emission -Domestic Material Purchase - Upstream

Plant	Year	Total Domestic Kilometer	Total Qty Domestic Purchased MT	Total eq. CO2 - Domestic in MT	Specific CO2e MT/ MT of Material Domestic Purchased	Specific CO2e Kg/ MT of Material Domestic Purchased
Gandhinagar	2023-24	626966.7	28323.25	552.69	0.01951	19.51
Medha	2023-24	60235.4	5313.45	53.100	0.00999	9.99

### K. Scope 3 Emission -Import Material Purchase - Upstream

Plant	Year	Total Ton of Material Imported in MT	Total Ton of CO2 eq. of import Material in MT	Specific CO2e MT/ MT of Material Import Purchased	Specific CO2e Kg/ MT of Material Import Purchased
Gandhinagar & Medha	2023-24	11954.01	802.149937	0.067103	67.1030

### L. Scope 3 Employee Commute -Co2 Equivalent Emissions

Vehicle Type	Fuel Type	Distance Travelled	Location	CO2 Eq. in MT based on distance travelled	Nos of Working Days
Car	Diesel	11350	Office	2.00	231
Car	Petrol	10900	Office	2.06	
Company Bus	Diesel	13860	Gandhinagar	7.33	
Car	Diesel	11050	Gandhinagar	1.94	
Car	Petrol	11400	Gandhinagar	2.15	
Company Bus	Diesel	14870	Medha	7.86	
Car	Diesel	11150	Medha	1.96	

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Car	Petrol	12120	Medha	2.29	
<b>Total</b>				<b>27.61</b>	

### M. GHG reduction by tree plantation

Plant	Nos of Tree Plantation in Year 2023-24	Co2 equ.
Gandhinagar	300	6.90
Medha	150	3.45
Office	56	1.29
<b>Total</b>	<b>506</b>	<b>11.64</b>

### N. GHG reduction from solar panel

Total Renewable energy generation from solar panel in year (2023-24)	Multiplication Factor	Total Reduction in Scope -2 GHG Emission	Average Reduction in Scope-2 GHG Emission
578775	0.846	489643	40803.63

### O. Overall summary of GHG Emissions (CO2 equivalent)

Emission Type	2023-24 CO2 Eq. in MT
Scope 1	67.90
Scope 2	3582.23
Scope 3 (Overall)	3665.29
Scope 3 (Upstream-Domestic Purchase)	605.79
Scope 3 (Upstream-Import Purchase)	802.14
<b>Total of Scope-3 Upstream</b>	<b>1407.93</b>
Scope 3 (Downstream- Domestic Sales)	1088
Scope 3 (Downstream- Export Sales)	1141.75
Scope 3 (Employee Commute) Company provide Bus and Car	27.61
<b>Total of Scope-3 Downstream</b>	<b>2257.36</b>
<b>Total GHG Emission (Scope 1 / 2 /3)</b>	<b>7315.42</b>

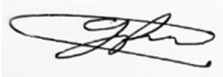
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**P. Conclusion of GHG Performance:**

**This is first time performance monitoring done on GHG emissions, hence from further based on performance of year 2023-24, will reduce the GHG emission as per following action plan.**

- 519 KVA Solar Plant install in MEDHA location.
- 100% Electrical forklift used and eliminate diesel consumption.
- Procurement & Dispatch team awareness improve for reduction in Scope-3 GHG emission, e.g. how to material import and in domestic with less transaction and arrangement dispatch material with adequate quantity with one route.
- Avoid old vehicle usage in premises, also same will inform to transporters.
- Majority employees should use company bus instead of their own vehicles.

**Report Prepared & Approved By  
Piyush Giri Goswami**



**EHS Head**