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# Performance Tables

## Business Performance

Production & Revenues	Unit	FY 23	FY 24
Total Production	MT	56,906	60,626
Revenues - Consolidated	Million INR	45,119	45,064
Revenues - Standalone	Million INR	39,312	37,550

## Climate & Environment Performance

Energy	Unit	FY 23	FY 24
Total Electricity consumption	MWh	77,078	84,066
Electricity from Renewable Sources (PPA+On-site+I-RECs)	MWh	7,565	39,885
% of Renewable Energy share of Consumed Electricity	%	9.8%	47.4%
<b>Fuels Consumption</b>			
Coal Consumption	MT	22,149	21,732
HSD consumption	KL	742	508
Furnance Oil Consumption	MT	64.50	63.62
Petrol Consumption	KL	0.76	3.26
<b>Energy by Source</b>			
Energy From Electricity Consumption	TJ	277.5	302.6
Energy From Fuels Consumption	TJ	592.2	573.3
Total Energy in TJ	TJ	869.7	875.95
Energy Intensity -TJ/Production	TJ/MT	0.01528	0.01445

GHG Emissions	Unit	FY 23	FY 24
Scope 1	tCO <sub>2</sub> e	56,265	56,254
Scope 2 (Market-Based)	tCO <sub>2</sub> e	56,306	31,632
Scope 2 (Location-Based)	tCO <sub>2</sub> e	62,433	60,191
<b>Scope 1+2 (Market-Based)</b>	<b>tCO<sub>2</sub>e</b>	<b>1,12,571</b>	<b>87,886</b>
<b>Scope 1+2 (Location-Based)</b>	<b>tCO<sub>2</sub>e</b>	<b>1,18,698</b>	<b>1,16,445</b>
<b>Scope 3 GHG Emissions</b>			
Category 1 - Purchased Goods & Services	tCO <sub>2</sub> e	4,95,807	5,14,516
Category 2 - Capital Goods	tCO <sub>2</sub> e	4,705	10,265
Category 3 - Fuel- and Energy-Related Activities	tCO <sub>2</sub> e	26,788	22,579
Category 4 - Upstream Transportation & Distribution	tCO <sub>2</sub> e	8,392	8,557
Category 5 - Waste Generated from Operations	tCO <sub>2</sub> e	2,992	3,571
Category 6 - Business Travel	tCO <sub>2</sub> e	295	850
Category 7 - Employee Commuting	tCO <sub>2</sub> e	1,476	1,571
Category 8 - Upstream Leased Assets	tCO <sub>2</sub> e	587	1,628
Category 9 - Downstream Transportation & Distribution	tCO <sub>2</sub> e	22,381	24,827
Category 10 - Processing of Sold Products	tCO <sub>2</sub> e	46,658	41,187
Category 11 - Use of Sold Products	tCO <sub>2</sub> e	-	-
Category 12 - End of Life Treatment of sold products	tCO <sub>2</sub> e	4,031	4,287
Category 13 - Downstream Leased Assets	tCO <sub>2</sub> e	-	-
Category 14 - Franchises	tCO <sub>2</sub> e	-	-
Category 15 - Investments	tCO <sub>2</sub> e	-	-
<b>Total Scope 3 emissions</b>	<b>tCO<sub>2</sub>e</b>	<b>6,14,113</b>	<b>6,33,837</b>
<b>Total Scope 1, 2 &amp; 3 emissions</b>	<b>tCO<sub>2</sub>e</b>	<b>7,26,684</b>	<b>7,21,723</b>

<b>Total Scope 1 and Scope 2 emission intensity in terms of physical output</b>	<b>tCO<sub>2</sub>e/Tonnes of Production</b>	<b>1.98</b>	<b>1.45</b>
<b>Scope 3 emission Intensity in terms of physical output</b>	<b>tCO<sub>2</sub>e/Tonnes of Production</b>	<b>10.79</b>	<b>10.45</b>



Air emissions	Unit	FY 23	FY 24
No <sub>x</sub>	MT	124.1	65.3
So <sub>x</sub>	MT	230.9	198.56
Particulate Matter (PM)	MT	89.3	82.08
Persistent Organic Pollutants (POP)	MT	0	0
Volatile Organic Compounds (VOC)	MT	0	0
Hazardous Air Pollutants (HAP)	MT	0	0
Water & Wastewater	Unit	FY 23	FY 24
<b>Water withdrawal by source</b>			
Surface water	KL	0	0
Ground Water	KL	0	0
Third Party Water	KL	3,41,008	3,68,002
Seawater/ Desalinated Water	KL	0	0
Rainwater Harvesting	KL	11,143	0
<b>Total volume of water withdrawal</b>	<b>KL</b>	<b>3,52,151</b>	<b>3,68,002</b>
<b>Total volume of water consumption</b>	<b>KL</b>	<b>1,93,125</b>	<b>2,26,083</b>
<b>Water intensity in terms of physical output</b>	<b>KL/Tonnes of Production</b>	<b>6.19</b>	<b>6.070</b>
Waste Water Generated (LTDS+HTDS)	KL	1,59,026	1,41,919
Recycle of Waste Water Generated	KL	81,804	55,083
Percentage generated Waste Water Recycled	%	51%	39%
<b>Water discharge by destination and level of treatment (in kilolitres)</b>			
To Surface water	KL	0	0
To Groundwater	KL	0	0
To Seawater	KL	0	0
Sent to third-parties	KL	68,821	79,216
Waste	Unit	FY 23	FY 24
Haz.Waste disposed to Landfill	MT	406.32	398.373
Haz.Waste disposed to Incineration	MT	63.235	71.52
Haz.Waste disposed to Co-processing	MT	2,664.07	3,482.355
<b>Total Hazardous Waste</b>	<b>MT</b>	<b>3,133.6</b>	<b>3,952.2</b>
Plastic waste	MT	1,081.7	1,106.6
Non-Hazardous Waste (Other than Plastic Waste)	MT	1,946.9	2,170.3
Bio Medical Waste	MT	1.228	3.009
E-Waste	MT	1.55	1.26
Waste Oil	MT	3.5	2.57
<b>Total Waste</b>	<b>MT</b>	<b>6169</b>	<b>7236</b>
Waste Intensity	MT/Tons of Production	0.108	0.119

## Social Performance

Employees and workers	Unit	FY 23	FY 24
No.of Employees	No's	3,650	4,057
No. of Males	No's	3,410	3,741
No.of Females	No's	240	316
New Hires	No's	1,588	1,406
Attrition	No's	1,387	1,020
Work Men (Upto Sr. Executive)	No's	3,058	3,377
Executives (Above Sr. Executive)	No's	592	680
<30 Yrs	No's	1,938	2,178
30-50 Yrs	No's	1,630	1,792
>50 Yrs	No's	82	87
No.of Contract Work Employees	No's	2,223	2,467
No. of Males	No's	1,806	2,022
No. of Females	No's	417	445
<b>Total Workforce</b>	<b>No's</b>	<b>5,873</b>	<b>6,524</b>
% of Female Employees	%	6.6%	7.8%
% of Female Workforce (Overall)	%	11.2%	11.7%
% of Attrition	%	38.0%	25.1%
Return to Work and Retention Rates	%	97%	100%
Women representation on Board of Directors	%	20%	25%
No. of complaints made by employees and workers	Unit	FY 23	FY 24
Working Conditions	No's	0	0
Health & Safety	No's	0	0
Sexual Harassment	No's	1	0
Discrimination at Workplace	No's	0	0
Child Labor	No's	0	0
Forced Labor/Involuntary Labor	No's	0	0
Wages	No's	0	0
Complaints on POSH as a % of female employees/workers	%	0.15%	0%
Number of customer complaints	Unit	FY 23	FY 24
Data privacy	No's	0	0
Advertising	No's	0	0
Cyber security	No's	0	0
Delivery of essential services	No's	0	0
Restrictive Trade Practices	No's	0	0
Unfair Trade Practices	No's	0	0
Instances of corruption and bribery	No's	0	0



No. of Complaints/Grievances	Unit	FY 23	FY 24
Communities	No's	0	0
Investors (other than shareholders)	No's	0	0
Shareholders	No's	0	0
Employees and workers	No's	0	0
Customers	No's	414	486
Value Chain Partners	No's	0	0
Product Quality & Safety	Unit	FY 23	FY 24
Instances of product recalls on accounts of safety issues	No's	0	0
Fines/Penalties/Punishment/Compounding fees/Settlement	Unit	FY 23	FY 24
Penalty/ Fine (Monetary)	INR	0	0
Settlement (Monetary)	INR	0	0
Compounding fee (Monetary)	INR	0	0
Imprisonment (Non-Monetary)	No's	Nil	Nil
Punishment (Non-Monetary)	No's	Nil	Nil
% Of employees covered by	Unit	FY 23	FY 24
Health insurance	%	100	100
Accident insurance	%	100	100
Maternity benefits	%	100	100
Paternity benefits	%	100	100
Daycare facilities	%	100	92.3
Median remuneration/wages	Unit	FY 23	FY 24
Median remuneration/salary/wages - Male	INR Lakh/ Annum	4.5	4.77
Median remuneration/salary/wages - Female	INR Lakh/ Annum	3.74	3.74
Gross wages paid to females as % of total wages paid by the entity, in the following format:	%	7.17	6.69
minimum wages paid to employees and workers			
Equal to minimum wage	%	0%	0%
More than minimum wage	%	100%	100
Equal to minimum wage	%	95%	99%
More than minimum wage	%	5%	1%
Complaints with regard to conflict of interest	Unit	FY 23	FY 24
Number of complaints received in relation to issues of Conflict of Interest of the Directors	No's	0	0
Number of complaints received in relation to issues of Conflict of Interest of the KMPs	No's	0	0

Complaints with regard to conflict of interest	Unit	FY 23	FY 24
Number of complaints received in relation to issues of Conflict of Interest of the Directors	No's	0	0
Number of complaints received in relation to issues of Conflict of Interest of the KMPs	No's	0	0
% of employees covered by retirement benefits	Unit	FY 23	FY 24
PF	%	100%	100%
Gratuity	%	100%	100%
ESI - No. of employees covered (as a % of total employees)	%	23%	20%
ESI - No. of workers covered (as a % of total workers)	%	99%	99%
Trainings & Performance and Career Development Review	Unit	FY 23	FY 24
Performance and career development reviews	%	79.7%	83.7%
provided training on human rights issues and policy	%	100%	100%
Training Hours - GMP	Man-hours	2,89,391	2,86,783
Training Hours - EHS Trainings	Man-hours	13,695	13,463
Other Trainings (External Technical & Behavioral )	Man-hours	3,425	9,761
Safety Performance	Unit	FY 23	FY 24
Reportable Incidents - Employees	No's	1	0
Reportable Incidents - Workers	No's	0	2
Lost Time Injury Frequency Rate for Employees (LTIFR) (per one million-person hours worked)	LTI-FR	0.12	0
Lost Time Injury Frequency Rate for Workers (LTIFR) (per one million-person hours worked)	LTI-FR	0	0.30
Total recordable work-related injuries - Employees	No's	7	23
Total recordable work-related injuries - Workers	No's	11	15
High consequence work-related injury or ill-health - Employees (excluding fatalities)	No's	1	0
High consequence work-related injury or ill-health - Workers (excluding fatalities)	No's	0	0
No. of fatalities -Employees	No's	0	0
No. of fatalities -Workers	No's	0	2
Man-hours Worked - Employees	Man-hours	8,081,100	8,982,198
Man-hours Worked - Workers	Man-hours	7,302,555	6,642,270
Lost time injury (LTI) severity rate for Employees - (number of days lost due to injuries) x 1,000/total hours worked	LTI-SR	0.67	0
Lost time injury (LTI) severity rate for Workers - (number of days lost due to injuries) x 1,000/total hours worked	LTI-SR	0	1.81



# Advancing Global Principles through UNGC Commitment

Since 2023, Granules has proudly participated in the United Nations Global Compact (UNGC), reaffirming our commitment to its ten principles covering human rights, labor, environment, and anti-corruption. Through this commitment, we actively contribute to the advancement of the UN Sustainable Development Goals (SDGs) and uphold transparency in our sustainability efforts by submitting an annual Communication on Progress (CoP), highlighting our initiatives and achievements.



	Principle	Statement	Page Number
 Human Rights	Principle 1	Businesses should support and respect the protection of internationally-proclaimed Human Rights	73 – 82, 98, 104
	Principle 2	Businesses should make sure that they are not complicit in Human Rights abuses	Annual Report Page no 91 - 94
 Labour Rights	Principle 3	Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining	73 -82, 98, 104  Annual Report Page no 91 -94
	Principle 4	Eliminate all forms of forced and compulsory labor	
	Principle 5	The effective abolition of child labor	
	Principle 6	The elimination of discrimination in respect of employment and occupation	
 Environment	Principle 7	Businesses should support a precautionary approach to environmental challenges	35 – 67
	Principle 8	Businesses should undertake initiatives to promote greater environmental responsibility	Annual Report Page no 95 – 102
	Principle 9	Businesses should encourage the development and diffusion of environmentally friendly technologies	
 Anti-Corruption	Principle 10	Businesses should work against corruption in all its forms, including extortion and bribery	98, 104  Annual Report Page no 76 - 79



# GRI Index

<b>Statement of use</b>	Granules India has reported the information cited in this GRI content index for the period 1 <sup>st</sup> April 2023- 31 <sup>st</sup> March 2024 with reference to the GRI Standards.
<b>GRI 1 used</b>	GRI 1: Foundation 2021

GRI Standard/ Other Source	Disclosure	Location	Remarks
GRI 2: General Disclosures 2021	2-1 Organizational details	2 & Back Cover	
	2-2 Entities included in the organization's sustainability reporting	2, 123	
	2-3 Reporting period, frequency and contact point	2 & Cover Page	
	2-4 Restatements of information	2	
	2-5 External assurance	2, 120, 123	
	2-6 Activities, value chain and other business relationships	11 – 12 Annual Report Page 8-11	
	2-7 Employees	113	
	2-8 Workers who are not employees	113	
	2-9 Governance structure and composition	24 Annual Report Page 49, 140 - 144	
	2-10 Nomination and selection of the highest governance body	Annual Report Page 119, 141	
	2-11 Chair of the highest governance body	24	
	2-12 Role of the highest governance body in overseeing the management of impacts	24	
	2-13 Delegation of responsibility for managing impacts	24	
	2-14 Role of the highest governance body in sustainability reporting	24 Annual Report 140-141	
	2-15 Conflicts of interest	Annual Report Page 78	
	2-17 Collective knowledge of the highest governance body	100 – 103	
	2-18 Evaluation of the performance of the highest governance body	Annual Report 140-144	
	2-19 Remuneration policies	Annual Report Page 141	
	2-20 Process to determine remuneration	Annual Report Page 141	
	2-22 Statement on sustainable development strategy	3 – 5, 16, 30 - 34	
	2-23 Policy commitments	30 - 34	

GRI Standard/ Other Source	Disclosure	Location	Remarks
	2-24 Embedding policy commitments	25 - 29	
	2-25 Processes to remediate negative impacts	25 - 29	
	2-26 Mechanisms for seeking advice and raising concerns	104	
	2-27 Compliance with laws and regulations	Annual Report Page 146	
	2-28 Membership associations	14	
	2-29 Approach to stakeholder engagement	17 – 18	
GRI 3: Material Topics 2021	3-1 Process to determine material topics	19 – 20 & 21 - 23	
	3-2 List of material topics	20	
GRI 3: Material Topics 2021	3-3 Management of material topics	19 – 20 & 21 - 23	
GRI 205: Anti-corruption 2016	205-2 Communication and training about anti-corruption policies and procedures	94 – 104	
	205-3 Confirmed incidents of corruption and actions taken	133 Annual Report 77-78	
GRI 3: Material Topics 2021	3-3 Management of material topics	19 – 20, 21	
GRI 302: Energy 2016	302-1 Energy consumption within the organization	60 – 61	
	302-3 Energy intensity	60 – 61	
	302-4 Reduction of energy consumption	60 – 61	
	302-5 Reductions in energy requirements of products and services	60 – 61	
GRI 3: Material Topics 2021	3-3 Management of material topics	62 - 63	
GRI 303: Water and Effluents 2018	303-1 Interactions with water as a shared resource	62 – 63	
	303-2 Management of water discharge-related impacts	62 – 63	
	303-3 Water withdrawal	62 – 63	
	303-4 Water discharge	62 – 63	
	303-5 Water consumption	62 – 63	
GRI 3: Material Topics 2021	3-3 Management of material topics	36 – 41	
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions	42 – 47	
	305-2 Energy indirect (Scope 2) GHG emissions	42 – 47	
	305-3 Other indirect (Scope 3) GHG emissions	42 – 47	
	305-4 GHG emissions intensity	47	
	305-5 Reduction of GHG emissions	49 – 58	
	305-7 Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	113	





GRI Standard/ Other Source	Disclosure	Location	Remarks
GRI 3: Material Topics 2021	3-3 Management of material topics	64	
GRI 306: Waste 2020	306-1 Waste generation and significant waste-related impacts	64 - 66	
	306-2 Management of significant waste-related impacts	64 – 66	
	306-3 Waste generated	64 – 66	
	306-4 Waste diverted from disposal	64 – 66	
	306-5 Waste directed to disposal	64 – 66	
GRI 3: Material Topics 2021	3-3 Management of material topics	73	
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	78	
	401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	80	
	401-3 Parental leave	80	
GRI 3: Material Topics 2021	3-3 Management of material topics	79	
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system and incident investigation	80 – 82 Annual Report 84 -86	
	403-2 Hazard identification, risk assessment,	81 Annual Report 84 -86	
	403-3 Occupational health services	80 Annual Report 84 -86	
	403-4 Worker participation, consultation, and communication on occupational health and safety	81	
	403-5 Worker training on occupational health and safety	114	
	403-6 Promotion of worker health	80 – 82	
	403-7: Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	80 – 82	
	403-8: Workers covered by an occupational health and safety management system	80 – 82	
	403-9 Work-related injuries	114	
	403-10 Work-related ill health	114	

GRI Standard/ Other Source	Disclosure	Location	Remarks
GRI 3: Material Topics 2021	3-3 Management of material topics	75	
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	7, 114	
	404-2 Programs for upgrading employee skills and transition assistance programs	75 – 76	
	404-3 Percentage of employees receiving regular performance and career development reviews	77	
GRI 3: Material Topics 2021	3-3 Management of material topics	73-74	
GRI 405: Diversity and Equal Opportunity 2016	405-1 Diversity of governance bodies and employees	74	
GRI 3: Material Topics 2021	3-3 Management of material topics	73	
GRI 406: Non-discrimination 2016	406-1 Incidents of discrimination and corrective actions taken	73, 74	
GRI 3: Material Topics 2021	3-3 Management of material topics	83-84	
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	83 -91	
	413-2 Operations with significant actual and potential negative impacts on local communities	83 -91	
GRI 3: Material Topics 2021	3-3 Management of material topics	Annual Report 31	
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	Annual Report Page 105 – 107	
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	114	
GRI 3: Material Topics 2021	3-3 Management of material topics	105	
GRI 418: Customer Privacy 2016	418-1 Substantiated complaints concerning breaches of customer privacy and losses of customer data	105 & 113	



# GHG Quantification Methodology

## Scope 1 - Quantification Methodology

For calculating scope 1 emissions, we have included data pertaining to three categories:

### Fugitive Emissions from Refrigerants

A 'purchase-based approach' has been used to arrive at the activity data for the consumption of refrigerants. To calculate fugitive GHG emissions, the Intergovernmental Panel on Climate Change (IPCC) and DEFRA emission factors have been referenced.

### Stationary Combustion

The key fuel sources considered for arriving at the activity data are furnace oil, coal, HSD, natural gas, and gasoline. To quantify emissions, the relevant guidelines from IPCC and Department for Environment, Food and Rural Affairs (DEFRA) have been referenced for emission factors.

### Wastewater

Most of our manufacturing units sending the Wastewater to third-party CETPs (Common Effluent Treatment Plants) for treatment and disposal. Hence, emissions from transportation and treatment of effluents is captured at relevant category of Scope 3, i.e., Category 5: Waste Generated in Operations

## Scope 2 - Quantification Methodology

Scope 2 emissions data encompasses activity data from grid electricity consumption. We have adopted a location-based approach for selecting the emission factors, due to unavailability of source-specific emission factors. For the Estimation of Scope 2 emissions, we have adopted emission factors published by the Central Electricity Authority of India.

## Scope 3 Quantification Methodology

We have aligned our methodology to GHG Accounting Standard and ISO 14064 (Guidance on quantification and reporting of greenhouse gas emissions). Due to variation in data availability and nature of category, we have used different methodologies for different categories.

Scope 3 Category No	Scope 3 Category Description	Methodology
1	Purchased Goods and Services	Supplier-specific method (~85%) Hybrid method (~15%)
2	Capital Goods	Hybrid method Average-product method
3	Fuel- and Energy-Related Activities	Average-data method
4	Upstream Transportation and Distribution	Distance-based method
5	Waste Generated in Operations	Waste-type-specific method
6	Business Travel	Distance-based method
7	Employee Commuting	Fuel-based method
8	Upstream Leased Assets	Lessor-specific method
9	Downstream Transportation and Distribution	Distance-based method
10	Processing of Sold Products	Average-data method
11	Use of Sold Products	Not Applicable, as this category is not relevant
12	End-of-Life Treatment of Sold Products	Average-data method
13	Downstream Leased Assets	Not Applicable, as this category is not relevant
14	Franchises	Not Applicable, as this category is not relevant
15	Investments	Not Applicable, as this category is not relevant

### Category 1 - Purchased Goods and Services

At Granules, the majority of our purchased goods and services emissions originate from Active Pharmaceutical Ingredients (APIs), Key Startup Materials (KSMs). Solvents and Packaging Materials. Key raw materials include PAP, Acetic Anhydride, DCDA, Ibuprofen and Metformin HCL, etc.

**Methodology Used:** Supplier-specific method & Hybrid method using the Primary and Secondary data.

### Category 2 - Capital Goods

At Granules, the majority of our capital goods emissions originate from purchase of pharma manufacturing equipment. Granules procures many capital goods that aid its operations of producing API, PFI and finished dosages. Key capital goods include compression machines, tablet printing machines, coating granulators, air receiver tanks, etc.

**Methodology Used:** Hybrid method and Average-product method using the Primary and Secondary data.

### Category 3 - Fuel- and Energy-Related Activities

At Granules, we consume the electricity and fuels like Coal, HSD, Furnace oil, etc. in the manufacturing operations of pharmaceutical products. Hence, the majority of our Fuel and Energy-related activities emissions originate from generation and transmission of electricity from grid and extraction, exploration, production and transportation of fuels like Coal, Diesel, and Furnace oil.

**Methodology Used:** Average-data method using the Primary data.

**Calculation formula Upstream CO<sub>2</sub>e emissions of purchased fuels (extraction, production, and transportation of fuels:**  

$$\sum (\text{fuel consumed (e.g., kWh)} \times \text{upstream fuel emission factor (kg CO}_2\text{e)/kWh)})$$

**Source of Emission Factors Used:** India Specific Road Transport Emission Factors, India GHG Program, 2015 & EcoInvent

### Category 4 - Upstream Transportation and Distribution

At Granules, the majority of our upstream transportation and distribution emissions generated during the transportation of all materials like APIs, RM, KSMs, Packaging materials, etc., used in our pharmaceutical product manufacturing. Majority of the suppliers of raw materials, packing materials and MRO (Maintenance, Repair & Operations) items used in the manufacturing of our products are situated





in India and China. RM and PM are usually transported from the suppliers/traders' site by sea and road with air shipments constituting a small share of the inbound shipments.

**Methodology Used:** Distance-based method using the Primary data.

#### Calculation Formula Distance-based method (transportation):

**Sum across transport modes and/or vehicle types:**  $\sum (\text{mass of goods purchased (tonnes or volume)} \times \text{distance traveled in transport leg (km)} \times \text{emission factor of transport mode or vehicle type (kg CO}_2\text{e/tonne or volume/km)})$

**Source of Emission Factors Used:** India Specific Transport Emission Factors, India GHG Program, 2015 & DEFRA

#### Category 5 - Waste Generated in Operations

At Granules, the majority of our 'Waste generated in operations' emissions generated during the transportation, treatment, disposal of Waste and Wastewater generated in the pharmaceutical manufacturing process.

As a company that produces pharmaceutical APIs, PFIs and finished dosages, we generate and dispose waste under two categories namely liquid waste (effluent) and solid waste. Solid waste is further divided into sub-categories basis the chosen disposal methods.

Effluent waste undergoes primary treatment within Granules' premises and is then disposed to Central Effluent Treatment Plants (CETPs). The methods of treatment of various solid wastes are described below.

All the figures for absolute emissions include both emissions due to transportation of the waste to respective 3rd party treatment facilities and emissions due to treatment of the waste in such facilities

**Methodology Used:** Waste-type-specific method using the Primary Data

**Calculation formula Waste-type-specific method:**  $\sum (\text{waste produced (tonnes or m}^3) \times \text{waste type and waste treatment specific emission factor (kg CO}_2\text{e/tonne or m}^3))$

**Source of Emission Factors Used:** EcolInvent, USEPA and other Emission factors from Secondary Research Reports

#### Category 6 - Business Travel

At Granules, the majority of our 'business travel emissions generated during the traveling (by road, by train, by air, including local travel by bus, car, auto, etc.) and staying during the business visits like meetings, conferences, site visits, and training sessions.

Primary modes of transportation used by employees during business travel are flights and cars for which Company-authorized travel service partners are available. Employees also use trains, buses and hotels during business travel for which they are reimbursed at actuals basis rules outlined in the Company travel policy guidelines

**Methodology Used:** Distance-based method using the Primary data

**Calculation formula Distance-based method:**  $\sum (\text{distance traveled by vehicle type (vehicle-km or passenger-km)} \times \text{vehicle specific emission factor (kg CO}_2\text{e/vehicle-km or kg CO}_2\text{e/passenger-km)})$

**Source of Emission Factors Used:** India Specific Transport Emission Factors, India GHG Program, 2015 & DEFRA

#### Category 7 - Employee Commuting

At Granules, the majority of our 'employee commuting' emissions are generated through employees' travel between home and work places by various modes of transportation used by employees such as Company-provided bus, employee-owned vehicles like two-wheeler, car and public transport like bus, metro, train, auto, etc.

**Methodology Used:** Fuel-based method & Distance-based method using the Primary data

**Calculation Formula Distance-based method:**  $\text{total distance traveled by vehicle type (vehicle-km or passenger-km)} = \sum (\text{daily one-way distance between home and work (km)} \times 2 \times \text{number of commuting days per year})$

**Source of Emission Factors Used:** India Specific Transport Emission Factors, India GHG Program, 2015 & DEFRA

#### Category 8 - Upstream Leased Assets

At Granules, the majority of our 'upstream leased assets' emissions are generated from Leased Warehouses, Guest house/Hostels, Laptops, etc. Granules has taken warehouses,

hostels and IT assets on lease basis. The emissions from the utilization of these assets for operations of Granules been estimated in this category.

**Methodology Used:** Lesser-specific method using the Primary data

**Calculation Formula Lesser-specific method:**  $\sum (\text{Scope 1 and Scope 2 emissions of lessor (kg CO}_2\text{e)} \text{ area, volume, quantity, etc., of the leased asset/total area, volume, quantity, etc., of lesser assets})$

**Source of Emission Factors Used:** India Specific Transport Emission Factors, India GHG Program, 2015, DEFRA & EcolInvent

#### Category 9 - Downstream Transportation and Distribution

At Granules, The majority of our downstream transportation and distribution emissions generated during the transportation of Finished dosage formulations, Pharmaceutical formulation Ingredients (PFIs) and Active Pharmaceutical Ingredients (APIs). Majority of the customers of Granules India Limited are concentrated in Europe, Americas and Australia. Typical products include API (Active Pharmaceutical Ingredient), PFI (Pharmaceutical Formulation Intermediate) and Finished Dosage (FD) that are primarily shipped to customers via sea and air. For domestic customers, sales primarily comprise of API with a small portion of PFI which are transported via road.

**Methodology Used:** Distance-based method using the Primary data.



### Calculation Formula Distance-based method (transportation):

**Sum across transport modes and/or vehicle types:**  $= \sum (\text{mass of goods purchased (tonnes or volume)} \times \text{distance traveled in transport leg (km)} \times \text{emission factor of transport mode or vehicle type (kg CO}_2\text{e/tonne or volume/km)})$

**Source of Emission Factors Used:** India Specific Transport Emission Factors, India GHG Program, 2015 & DEFRA

### Category 10 - Processing of Sold Products

Granules India Limited Manufactures Active Pharmaceutical Ingredients (API) and Pharmaceutical Formulation Intermediates (PFIs) which are sold to other pharma companies that transform them further into Finished Dosage (FD) for use by end customer.

**Methodology Used:** Average-data method using the Secondary data

### Calculation Formula Average-data method:

$\sum (\text{mass of sold intermediate product (kg)} \times \text{emission factor of processing of sold products (kg CO}_2\text{e/kg of final product)})$

### Category 12 - End-of-Life Treatment of Sold Products

Granules India Limited sells a mix of Active Pharmaceutical Ingredients (API), Pharmaceutical Formulation Intermediates (PFI) and Finished Dosages (FD) to its customers. We have accounted for treatment of

waste from processing of sold APIs/PFIs to FD by our customers. We have further accounted for the packaging waste disposed once finished dosages, produced by Granules India Ltd., are consumed by our customers.

**Methodology Used:** Average-data method using the Secondary data

**Source of Emission Factors Used:** US EPA Emissions Factors Hub, 2023

### Exclusions:

#### Category 12 - Use of Sold Products:

This category is not relevant to Granules operations, all the final products are consumed by the end users.

#### Category 13 - Downstream Leased Assets:

This category is not relevant to Granules as there are no downstream leased assets.

**Category 14 - Franchises:** This category is not relevant to Granules as there are no Franchises.

**Category 15 - Investments:** This category is not relevant to Granules as there are no Investments.

### Uncertainty:

The GHG emissions reported for Scope 1, Scope 2, and Scope 3 include inherent uncertainties due to estimation methodologies and data limitations. For Scope 1 and Scope 2 emissions, which cover direct and energy-related emissions under our operational control, uncertainties are minimized through direct measurement and utility data; however, minor variability may occur due to the accuracy of fuel and electricity data collection methods

Scope 3 emissions reporting for Granules involves inherent uncertainties due to the complexity and variability of the data sources across the value chain. Since these emissions largely depend on activities outside Granules' direct control—such as supplier operations, product transport, and end-of-life treatment—estimating them accurately presents significant challenges. Data reliability issues, varying supplier reporting practices, limited primary data availability, and the use of industry averages or estimation models contribute to this uncertainty.

Granules recognizes these limitations and is committed to continuously refining its data collection and estimation processes. Through engagement with suppliers, adoption of advanced calculation methodologies, and leveraging of more accurate data sources, Granules aims to improve the accuracy of its Scope 3 inventory over time, thereby enhancing its alignment with the GHG Protocol requirements and supporting its broader sustainability goals.

# Independent Assurance Statement



## INDEPENDENT ASSURANCE OPINION STATEMENT

To: Board Committee – Sustainability and CSR of Granules India Limited.

Holds Statement No.: **769272-2**

The British Standards Institution (**BSI**) has conducted a limited assurance engagement on the sustainability information (described in the "Scope") in the **Granules Sustainability Report 23-24 of Granules India Limited**.

### Scope

The scope of engagement agreed upon with Granules India Limited includes the following:

The assurance covers the information of ESG matters in the Granules Sustainability Report 23-24, for the reporting period 1st April 2023 to 31st March 2024.

The reported information is reported in accordance "with reference reporting" to GRI Standards 2021.

[The details of subject matters and their boundaries within the scope is described in Appendix A and Appendix B in this independent assurance opinion statement].

### Opinion Statement

We have conducted a limited assurance engagement on the sustainability information described in **Granules Sustainability Report 23-24 for the reporting period 1st April 2023 to 31st March 2024**.

Based on the procedures we have performed and the evidence we have obtained, nothing has come to our attention that causes us to believe that the accompanying Sustainability Information is not prepared, in all material respects, with reference reporting to GRI Standards 2021.

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## Methodology

Our assurance engagements were carried out in accordance with ISAE3000 (Revised). Our work was designed to gather evidence on which to base our conclusion. We undertook the following activities:

- a top-level review of issues raised by external parties that could be relevant to Granule's policies to provide a check on the appropriateness of statements made in the report.
- discussion with managers and staffs on Granule's approach to stakeholder engagement. However, we had no direct contact with external stakeholders.
- interviews with staffs involved in sustainability management, report preparation and provision of report information were carried out.
- document review of relevant systems, policies, and procedures where available
- review of supporting evidence for claims made in the reports.
- review of key organizational developments

## Responsibility

Granules India Limited is responsible for the preparation and fair presentation of the sustainability information and report in accordance with the agreed criteria. BSI is responsible for providing an independent assurance opinion statement to stakeholders giving our professional opinion based on the scope and methodology described.

## Independence, Quality Control and Competence

BSI is independent to Granules India Limited and has no financial interest in the operation of Granules India Limited other than for the assurance of the sustainability statement contained in the report.

This independent assurance opinion statement has been prepared for the stakeholders of Granules India Limited only for the purposes of verifying its statements relating to its environmental, social and governance (ESG) more particularly described in the Scope above.

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This independent assurance opinion statement is prepared on the basis of review by BSI of information presented to it by Granules India Limited. In making this independent assurance opinion statement, BSI has assumed that all information provided to it by Granules India Limited is true, accurate and complete. BSI accepts no liability to any third party who places reliance on this statement.

BSI applies its own management standards and compliance policies for quality control, in accordance with ISO/IEC 17021-1:2015 and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

BSI is a leading global standards and assessment body founded in 1901. The BSI assurance team has extensive experience in conducting verification over environmental, social and governance (ESG), and GRI Universal Standard 2021, ISO 14001, ISO 45001, ISO 14064, ISO 50001, and ISO 9001, etc.

Issue Date: 24-09-2024

For and on behalf of BSI:

*Srinivasa Babu Nagaraj*

Lead Assurer

*Theuns Kotze*

Theuns Kotze, Managing Director – IMETA Assurance

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**Appendix A:** [Data of subject matters within the scope].

## List of material topics:

GRI 2: General Disclosures 2021 – 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-8, 2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-15, 2-16, 2-17, 2-18, 2-22, 2-23, 2-24, 2-25, 2-26, 2-27, 2-28, 2-29

GRI 3: Material Topics 2021 3-1 Process to determine material topics, 3-2 List of material topics, 3-3 Management of material topics.

GRI 205: Anti-corruption 2016 - 205-1, 205-2, 205-3

GRI 302: Energy 2016 - 302-1, 302-3, 302-4, 302-5

GRI 303: Water and Effluents 2018- 303-1, 303-2, 303-3, 303-4, 303-5

GRI 305: Emissions 2016- 305-1, 305-2, 305-3, 305-4, 305-5, 305-7

GRI 306: Waste 2020 - 306-1, 306-2, 306-3, 306-4, 306-5

GRI 401: Employment 2016- 401-1, 401-2, 401-3

GRI 403: Occupational Health and Safety 2018 - 403-1, 403-2, 403-3, 403-4, 403-5, 403-6, 403-7, 403-8, 403-9, 403-10,

GRI 404: Training and Education 2016 - 404-1, 404-2, 404-3

GRI 405: Diversity and Equal Opportunity 2016 - 405-1

GRI 406: Non-discrimination 2016 - 406-1

GRI 413: Local Communities 2016 - 413-1

GRI 416: Customer Health and Safety 2016 - 416-1, 416-2

GRI 418: Customer Privacy 2016- 418-1

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**Appendix B:** List of locations from the boundaries of Granules sustainability report 23-24

Plants in India	Location
<b>Corporate office</b>	2nd Floor, 3rd Block, My Home Hub, Madhapur, Hyderabad- 500 081 - Telangana State, India.
Finished Dosage Unit	160/A, 161/E, 162 & 174/A, Gagillapur Village, Dundigal Gandimaisamma Mandal, Medchal-Malkajgiri District – 500 043, Telangana State, India.
API Unit – I	Sy. No. 533, 535, 536, 537 Temple Road, Bonthapally Village, Gummadidala Mandal, Sangareddy District – 502 313, Telangana State, India
API Unit – II	Plot No. 15A/1, Phase III, IDA Jeedimetla, Qutubullapur Mandal, Medchal-Malkajgiri District, Hyderabad – 500 055, Telangana State, India.
API Unit – III	Sy.No.216, Bonthapally Village, Gummadidala Mandal, Sangareddy District – 502 313, Telangana State, India.
API Unit – IV	Plot No 8, J.N. Pharma City, Tadi Village, Parawada Mandal, Anakapalli District – 531 019, Andhra Pradesh, India.
API Unit – V	Plot No. 30, J. N. Pharma City, Parawada Mandal, Anakapalli District – 531 019, Andhra Pradesh, India

R&D Centers	Location
1	Plot No. 56, Road No. 5, ALEAP Industrial Area, Pragathi Nagar, Gajularamaram Village, Qutubullapur Mandal, Medchal-Malkajgiri District, Hyderabad – 500 072, Telangana State, India.
2	Survey Nos. 234/1 to 4 and 6 to 7, 235 /6 to 9 and 245/1 to 3, India Land Global Industrial Park, Hinjewadi Phase -1, Mulshi Taluka, Pune District – 411 057, Maharashtra State, India
3	H.No.5-33, Sy No.352, Plot No. 8, Road No. 2, ALEAP Industrial Area, Pragathi Nagar, Gajularamaram village, Qutubullapur Mandal, Medchal- Malkajgiri District, Hyderabad – 500 072, Telangana State, India.
4	Lab No: 11 & 13, Building No:1800, Sy No. 101,101/2 & 340, M. N. Park, Genome Valley, Lalgadi Malakpet Village, Shameerpet Mandal, Medchal- Malkajgiri District, 500 078, Telangana State, India.

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