

Taskforce For Climate-Related Financial Disclosures (TCFD) Aligned Report

JB Pharma

Contents

1.	Introduction		3
	1.1 Scope of t	he Report	4
2.	Looking Ahea	ad: JB Pharma's Commitment	4
	2.1 Message f	from CEO	4
3.	Governance		7
	3.1 Climate G	overnance: Management of Climate Risks	7
	3.2 Board Ove	ersight	8
	3.3 Managem	ent Role	8
	3.4 Climate-re	elated governance roles and responsibilities at JB Pharma	8
4.	Strategy		12
	4.1 Integrating	g Climate Risk Assessment into Strategic Planning	12
	4.2 Climate R	isk Scenarios Assessment	13
	4.2.1	Physical Risk Scenario Analysis	14
	4.2.2	Heatwaves	14
	4.2.3	Heavy Precipitation	15
	4.2.4	Cyclones	16
	4.2.5	Water Stress	16
	4.2.6	Transition Risk Scenarios	18
	4.3 Key Physi	cal & Transition Risks and Impacts Identified by JB Pharma	20
	4.3.1 K	ey Physical Risks, Impacts (Business and Financial) & Opportunities Identi Pharma	fied by JB 20
	4.3.2 K	ey Transition Risks & Impacts Identified by JB Pharma	22
5.	Risk Manage	ment	26
	5.1 Key Eleme	ents of JB Pharma's Risk Management:	26
	5.2 Integratior	n of climate risks into our Enterprise Risk Management (ERM) Processes:	26
6.	Metrics and T	arget	31
	6.1 Our Key T	argets:	31

6.2 Our Progress towards Our Targets	31
6.3 Emissions (MtCO2e)	31
7. Way Forward	33
8. Glossary	34
9. References	35

Foreword

At JB Pharma, our commitment to Building a Sustainable Future for Good Health drives every aspect of our operations. As a global pharmaceutical leader, we understand that addressing climate-related risks is essential to ensuring uninterrupted access to healthcare while fostering resilience and long-term value creation. The Task Force on Climate-related Financial Disclosures (TCFD) provides a valuable framework for managing these risks and opportunities.

JB Pharma has undertaken a TCFD gap assessment to enhance our climate risk disclosures and resilience. This document outlines our methods, significant discoveries, and plans to promote our shift to low-carbon operations and create a more environment-friendly enterprise.

1. Introduction

As the global community continues to address the challenges posed by climate change, businesses across industries, including the pharmaceutical sector, are increasingly prioritizing the integration of climate-related risks into their strategic decision-making processes. For pharma companies, climate change presents unique opportunities and challenges, ranging from disruptions in supply chains due to extreme weather events to the growing demand for sustainable and resilient operations. Conducting thorough climate risk assessments and ensuring transparent disclosures are essential for mitigating financial risks, safeguarding operational continuity, and meeting the expectations of investors and stakeholders. Addressing these factors effectively is critical to maintaining business resilience, protecting market position, and ensuring long-term profitability in an evolving climate landscape.

The Task Force on Climate-related Financial Disclosures (TCFD) has emerged as a leading framework for helping organizations identify and disclose climate-related risks and opportunities. By offering a structured approach to understanding and communicating these risks, the TCFD framework empowers pharmaceutical companies to navigate the transition to a low-carbon economy while ensuring sustained operational and financial viability.

The TCFD's recommendations are structured around four key areas: governance, strategy, risk management, and metrics and targets.

- **Governance** emphasizes the importance of clear roles and responsibilities within organizations concerning climate-related issues and opportunities.
- Strategy encourages businesses to integrate climate considerations into their long-term planning.
- Risk Management focuses on identifying and addressing climate-related risks and opportunities.
- **Metrics and Targets** promote the disclosure of greenhouse gas emissions, climate-related targets, and progress made towards achieving these targets.

In this context, JB Pharma has recognized the importance of conducting a TCFD gap assessment to evaluate its current practices in climate risk management and disclosure. This assessment aims to identify the climate risks associated with our assets, the financial and business impacts of the identified climate risks, mitigation/adaptation measures to be implemented, and areas where we can enhance climate-related financial disclosures, improve resilience to climate risks, and capitalize on opportunities associated with climate-related initiatives.

This report outlines the approach, key findings, impacts, and mitigation/adaptation measures of climaterelated risks identified for JB Pharma. Through this process, we seek to strengthen our transition towards a low-carbon economy commitment to the broader effort of building a more resilient and sustainable brand.

1.1 Scope of the Report

The scope of the TCFD report extends beyond the JB Pharma, encompassing both upstream (U/S) and downstream (D/S) value chain partners to deliver a holistic framework for evaluating and disclosing climate-related financial risks and opportunities. For upstream partners, including contract manufacturers, raw material suppliers, and logistics providers, the scope of the report emphasizes a comprehensive evaluation of climate-related risks such as resource scarcity, evolving regulatory requirements, and the physical impacts of climate change on the pharmaceutical supply chain. It also identifies opportunities to adopt sustainable sourcing practices, improve energy efficiency, and drive innovation in production and distributors, healthcare providers, and patients, the report examines the effects of climate change on product demand, patient needs, and market trends. This includes evaluating risks such as changes in treatment preferences, regulatory pressures on the environmental impact of products, and potential disruptions in the downstream supply chain due to extreme weather events.

This report focuses on evaluating the potential impacts of climate-related risks and opportunities associated with the transition to a low-carbon future. The table below outlines the JB Pharma assets included in the scope of risk assessment under the TCFD framework.

Location	Country					
Nanufacturing Units						
Ankaleshwar, Gujarat	India					
Panoli, Gujarat	India					
Daman, Daman and Diu	India					
Offices						
Mumbai, Maharashtra	India					
Research and Development Centre (R&D)						
Thane, Maharashtra	India					

This report outlines how climate change scenarios could impact JB Pharma's business and details the company's strategy to mitigate those potential impacts while ensuring long-term resilience. JB Pharma's understanding of climate change challenges continues to evolve, and its plans are regularly updated to address emerging risks and opportunities. The company recognizes the profound connection between responsible operations and the planet's health, emphasizing the significance of a changing climate for its future. While the report focuses on JB Pharma's strategies to address transitional and physical risks posed by climate change to the pharmaceutical industry, the company is also committed to mitigating climate change at its root. To support a sustainable future, JB Pharma actively implements initiatives and programs aimed at reducing environmental impacts across its operations.

2. Looking Ahead: JB Pharma's Commitment

2.1 Message from CEO

At JB Pharma, we recognize the profound implications of climate change on global health and our responsibility as a leading pharmaceutical company to address these challenges. Our commitment to

sustainable practices is deeply rooted in our vision to improve lives, not only through innovative healthcare solutions but also by contributing to a resilient and sustainable future.

The Task Force on Climate-related Financial Disclosures (TCFD) provides a vital framework for aligning corporate strategies with climate resilience and transparency. This report reflects our proactive efforts to integrate climate considerations into our business operations, risk management practices and long-term growth strategy.

As a pharmaceutical company, climate change poses unique risks to our supply chain, manufacturing processes, and the communities we serve. Recognizing this, we have taken decisive steps to enhance the resilience of our operations and reduce our environmental footprint. Key actions include transitioning to renewable energy sources, improving energy efficiency in our manufacturing facilities and adopting sustainable supply chain practices.

The Climate Risk Assessment (CRA) process is central to our sustainability journey. By systematically evaluating climate-related risks and opportunities, we gain critical insights into how physical impacts such as extreme weather events and transition risks like regulatory shifts may affect our business. These assessments enable us to develop targeted strategies that not only mitigate risks but also position us to seize opportunities that arise from the global shift toward a low-carbon economy.

Through robust governance structures, our board actively oversees climate-related risks and opportunities, ensuring they are embedded in our strategic decision-making processes. Our risk assessment frameworks now incorporate climate scenarios to evaluate potential impacts on business continuity, enabling us to adapt to evolving regulatory, physical, and market dynamics.

This TCFD report is a testament to our dedication to transparency and accountability. By aligning with the TCFD recommendations, we aim to provide our stakeholders with a clear understanding of our climate-related actions and their impact on our business and the broader ecosystem.

As we move forward, we are steadfast in our commitment to leveraging our capabilities to combat climate change and drive sustainable progress. Together, we can build a healthier, more sustainable future for generations to come.

Best Regards,

Mr. Nikhil Chopra

Governance

1

3. Governance

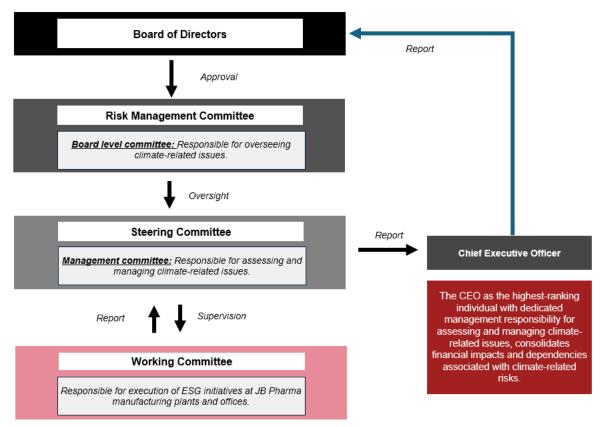
3.1 Climate Governance: Management of Climate Risks

This section outlines the climate and sustainability governance framework of JB Pharma, which is pivotal for the organization to attain its climate risk-related disclosures and targets and embed climate risk-related responsibilities within its operational structure. JB Pharma has established a comprehensive governance model to achieve its climate and sustainability goals, clearly defining roles, oversight mechanisms, and coordination across the organization. This framework emphasizes the importance of integrating climate and sustainability considerations into the decision-making processes.

We recognize the critical importance of addressing climate-related risks in today's rapidly changing and non-stationary environment. As stewards of our organization, the Board of Directors and Management Team are deeply committed to overseeing and managing these risks effectively.

The governance architecture comprises multiple tiers and committees, each with distinct roles and responsibilities, including the Board of Directors (BoD), Risk Management Committee, the Steering Committee and the Working Committee. Each committee is instrumental in advancing sustainability initiatives and tracking their progress.

Through the implementation of this governance framework, JB Pharma reaffirms its dedication to sustainability and climate action, establishing a precise roadmap for integrating sustainability objectives into decision-making processes and ensuring continuous monitoring and reporting of achievements.



Climate Governance at JB Pharma

3.2 Board Oversight

The Board of Directors plays a critical role in overseeing the climate-related governance process, ensuring effective management of all identified risks in alignment with JB Pharma's strategic objectives.

The Steering Committee appraises the Board Risk Management Committee on ESG and climate-related risks to ensure thorough oversight and promote accountability. This process underscores the importance of ESG considerations within JB Pharma's key climate-related risk management framework.

The Board Risk Management Committee examines the findings presented by the Steering Committee, ensuring that the identified risks and opportunities are rigorously evaluated and addressed. By fulfilling this role, the RMC ensures the integrity and effectiveness of JB Pharma's approach to managing climate-related risks, thereby supporting the company's broader sustainability goals. This oversight promotes accountability and highlights the importance of incorporating Climate-related considerations into JB Pharma's primary risk management framework.

The RMC comprises 3 Directors— the Mr. Nikhil Chopra, CEO & Whole Time Director, Mr. Prashant Kumar, Non-Executive Director and Ms. Padmini Khare Kaicker, Independent Director. The RMC's role and responsibility are to define the risk threshold for all the risk categories including ESG and climate-related risks. The RMC approves and monitors the risk register.

The Board of Directors reviews climate-related issues on an annual basis, ensuring that these critical topics are systematically included in the agenda at least once every year. This approach provides a structured opportunity for comprehensive assessment and decision-making around the organization's climate strategy and related risks.

The Board of Directors, Risk Management Committee, Steering Committee, and the Working Committee's involvement guarantee that climate risks and opportunities receive the necessary attention and resources, demonstrating the company's dedication to sustainable and responsible business practices.

3.3 Management Role

At JB Pharma, we've established Steering Committee, comprising of several senior executive management and C-suite members. This committee convenes quarterly to deliberate on vital ESG domains, evaluate performance, and track progress toward key ESG objectives and benchmarks. The ESG Steering Committee identifies, assesses, and quantifies ESG risks, including climate risks and opportunities, and presents the findings to the RMC. It is led by the CEO.

The Steering Committee shares the identified climate-related risk with CFO, who consolidates all the climate-related risks including the risks identified by the Steering committee and integrates them into the risk register (ERM) for approval from Risk Management Committee.

As stewards of our organization, the Management Team ensures that the Board of Directors is kept timely apprised of climate-related and ESG risks and their effective management.

3.4 Climate-related governance roles and responsibilities at JB Pharma

Committee	Responsibilities	
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Board Level	Risk Management Committee	The Board Risk Management Committee appraises the Board of Directors on ESG and climate-related risks to ensure thorough oversight and promote accountability
		Perform an oversight role in shaping the company's ESG and climate aspirations
		 Review key ESG risks (including changing regulation & emerging risks) such as Water stress, Climate Change, Human Rights, Community Impact
		Review mitigation/adaptation initiatives for specific risks.
		• The RMC defines the risk threshold for all the risk categories including ESG and climate-related risks.
		• The RMC approves and monitors the risk register.
		• The RMC also appraises the Board of Directors on all material risks including ESG and climate-related risks.
Management Level	Steering Committee	Define strategic goals and identify initiatives
	Committee	 Responsible for sustainability strategy and adoption of ESG and climate-related targets
		Drive overall ESG, climate-related & other sustainability aspirations, and long-term goals.
		Review progress against such ESG and climate-related goals
		Identify long-term business opportunities based on ESG and climate- related risks.
		• Assist the Board and the RMC in discharging its oversight responsibility related to all CSR & other ESG performance, including, but not limited to climate change impacts and other climate-related issues, natural resources conservation, environmental impacts, and supply chain sustainability, human rights, diversity and inclusion, and other ESG issues that are material to the company
		• To formulate and recommend to the Board key long-term Sustainability opportunities, ESG policies, and any change thereof, and maintain oversight and ensure periodic review of the implementation of these policies, as required.
		Responsible for monitoring climate-related risks and disclosures
		Oversee the function of a team in data collection and collation of climate risks
		Implementation of ESG and climate initiatives

		Conduct timely gap assessments and audits of ESG and climate activities
Department Level	Dedicated ESG & CSR Team (Plant level taskforce)	 Execute site-specific ESG and climate-related initiatives in line with company-wide sustainability goals.
		 Conduct regular internal audits and track plant-level compliance with ESG standards.
		 Monitor resource efficiency, emissions, waste management and water usage on-site.
		• Report on-site ESG performance metrics to the Steering Committee.
		 Ensure on-the-ground implementation of health, safety and human rights initiatives.
		Coordinate with the data collection team for accurate site-level ESG data.

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Strategy

4. Strategy

4.1 Integrating Climate Risk Assessment into Strategic Planning

Climate-related risk considerations are integral to our strategic planning processes, ensuring alignment with our long-term sustainability objectives. Addressing these risks requires a forward-looking approach and proactive measures to adapt to evolving environmental conditions. By utilizing data-driven analysis and scenario planning, we aim to anticipate and mitigate potential impacts on our business and the broader economy.

In line with the TCFD framework, climate-related risks are categorized into two main groups: **physical risks** and **transition risks**. Physical risks encompass direct and indirect impacts of climate change on assets, infrastructure, and the environment. These include **acute risks** such as floods, cyclones, and wildfires, as well as **chronic risks** like water stress, heat stress, prolonged droughts and rising sea levels. These risks are expected to increase in both frequency and severity, leading to consequences such as asset damage, supply chain disruptions, and reduced productivity of field operations.

Time Horizons for Climate Risk Assessment

To ensure robust climate resilience, we have established three distinct time horizons:

- Short-term horizon (up to 2035): This phase focuses on immediate actions to address highpriority risks. Our efforts will prioritize implementing targeted measures to mitigate and adapt to pressing climate risks.
- Medium-term horizon (2035 to 2055): This phase emphasizes the execution of key mitigation strategies, aiming to bolster our organizational resilience and achieve established climate and ESG targets.
- Long-term horizon (beyond 2055): In this phase, we will invest in advanced research and development to explore innovative materials, cutting-edge technologies, and state-of-the-art equipment. These efforts will position us as leaders in climate resilience and preparedness for future challenges.

By embedding these time horizons into our strategic planning, we aim to ensure a proactive and adaptive approach to climate-related risks while maintaining our commitment to sustainability and industry leadership.

Our climate risk assessment has been conducted with the short, medium and long-term time horizons as the boundary.

Short-term	Medium-term	Long term
short-term (up to 2030)	medium-term (up to 2040)	long-term (up to 2050)

Categories of Risks and Key Risk Indicators identified for JB Pharma

Risk Category	Risk Sub-Category	Risk Indicators
Physical	Acute	Cyclones
		Floods
	Chronic	Heat stress

		Water stress/ Drought
Transition	Policy and Legal	Carbon tax policies
		Emission goals
		Enhancing mandates on renewable energy share
	Technology	Cost of upgrading assets and energy efficiency requirements
	Market	Increase in insurance premiums for climate-related events
	Reputation	Opportunity to build reputation and attract capital through company's sustainability performance and disclosures.

4.2 Climate Risk Scenarios Assessment

In our physical risk assessment, we incorporated climate scenarios from the Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6). Specifically, we analyzed two Shared Socioeconomic Pathways (SSPs): the optimistic **SSP1-2.6** scenario and the pessimistic **SSP5-8.5** scenario.

Using two climate scenarios for TCFD assessments is recommended for several key reasons:

- 1. **Comprehensive Risk Understanding:** Employing at least two scenarios is a best practice offering a broader perspective on potential climate impacts under varying conditions. This enhances the robustness and credibility of risk assessments.
- Alignment with Rating Agencies: Climate assessments conducted using multiple scenarios align with the evaluation criteria of agencies like CDP and DJSI. These assessments play a critical role in shaping credit ratings and investor confidence.
- 3. **Industry Benchmarking:** Adopting the use of dual scenarios ensures alignment with industry peers who have embraced this approach. This practice not only maintains competitiveness but also supports compliance with evolving standards in climate risk assessment.

By leveraging these scenarios, we aim to enhance our understanding of climate-related risks and opportunities, ensuring alignment with global standards and fostering resilience in an uncertain climate future.

4.2.1 Physical Risk Scenario Analysis

The physical risk assessment is a fundamental component of climate risk assessment, providing critical insights that enable JB Pharma to navigate the complexities of a changing climate, protect our assets, and ensure long-term resilience and sustainability.

Physical Risk Scenarios			
IPCC's Shared Socio-economic Pathway (SSP) 1-2.6	IPCC's Shared Socio-economic Pathway (SSP) 5-8.5		
 SSP1 represents an optimistic scenario where proactive measures are taken to ensure that economic growth is both inclusive and environmentally sustainable. SSP1–2.6 scenario means the radiative forcing level reaches 3.1 W/m² by mid-century but returns to 2.6 W/m² by 2100. 	 SSP5 outlines a future where economic growth and development are prioritized, driven by the extensive use of fossil fuels. SSP5–8.5 being an extreme scenario represents a "pessimistic" scenario, leading to over 3.3°C to 5.7°C temperature rise by the end of the century due to minimal to no effort to reduce emissions. 		
The key features of this scenario are:	Key features of this scenario are:		
Sustainable Socioeconomic Growth	Fossil-fueled Development		
Stringent Environmental Regulations	Rapid Economic Growth		
Effective Institutions	High Investment in Education		
Low Population Growth	Population Dynamics		

4.2.2 Heatwaves

Heatwaves: According to the IMD, a heatwave is defined when the maximum temperature at a station reaches 40°C or higher in the plains. The risk assessment for heatwaves is based on changes in temperature: a temperature changes below 1.7°C indicates low risk, between 1.7°C and 2°C indicates medium risk, between 2°C and 2.4°C indicates high risk, and above 2.4°C indicates very high risk. Based on the scenario analysis, the following asset locations are identified as being highly susceptible to heatwaves.

	Risk as per SSP 2.6 Scenario						
Location	Asset Type	State	Country	2030	2040	2050	
Ankaleshwar	Manufacturing Unit	Gujarat	India	Low	Medium	High	
Panoli	Manufacturing Unit	Gujarat	India	Low	Medium	High	
Daman	Manufacturing Unit	Daman and Diu	India	Low	Medium	High	
Mumbai	Offices	Maharashtra	India	Low	Medium	High	

Thane	Research and Development Centre (R&D)	Maharashtra	India	Low	Medium	High
	R	isk as per SSP 8	.5 Scenario	C		
Location	Asset Type	State	Country	2030	2040	2050
Ankaleshwar	Manufacturing Unit	Gujarat	India	Medium	High	Catastrophic
Panoli	Manufacturing Unit	Gujarat	India	Medium	High	Catastrophic
Daman	Manufacturing Unit	Daman and Diu	India	Medium	High	Catastrophic
Mumbai	Offices	Maharashtra	India	Medium	High	Catastrophic
Thane	Research and Development Centre (R&D)	Maharashtra	India	Medium	High	Catastrophic

4.2.3 Heavy Precipitation

Heavy precipitation is considered for precipitation of more than 50mm in a day. The risk rating considered is with respect to number of days with heavy precipitation annually. The assets with heavy precipitation of less than 2 day is at low risk, for 2 to 3 days is at medium risk, for 3 to 5 days is at high risk and more than 5 days is very high risk. The following asset locations are prone to high heavy precipitation as per the scenario analysis

		Risk as per	SSP 2.6 S	cenario		
Location	Asset Type	State	Country	2030	2040	2050
Ankaleshwar	Manufacturing Unit	Gujarat	India	Low	Medium	High
Panoli	Manufacturing Unit	Gujarat	India	Low	Medium	High
Daman	Manufacturing Unit	Daman and Diu	India	Low	Medium	High
Mumbai	Offices	Maharashtra	India	Medium	High	Catastrophic
Thane	Research and Development Centre (R&D)	Maharashtra	India	Medium	High	Catastrophic
	R	isk as per SSP 8	.5 Scenario	C		
Location	Asset Type	State	Country	2030	2040	2050
Ankaleshwar	Manufacturing Unit	Gujarat	India	Medium	High	Catastrophic
Panoli	Manufacturing Unit	Gujarat	India	Medium	High	Catastrophic
Daman	Manufacturing Unit	Daman and Diu	India	Medium	High	Catastrophic
Mumbai	Offices	Maharashtra	India	High	High	Catastrophic

Thane Research and Development Centre (R&D)	Maharashtra	India	High	High	Catastrophic
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4.2.4 Cyclones

All the sites of JB Pharma were considered for cyclonic risk. The historical data Return Period (in years) for cyclonic storm(cs) passing within 50 nautical miles of coastal districts, annual (1961-2020) by IMD was considered for analysing the risk posed in the future.

Location	Asset Type	State	Country	Risk
Ankaleshwar	Manufacturing Unit	Gujarat	India	Medium
Panoli	Manufacturing Unit	Gujarat	India	Medium
Daman	Manufacturing Unit	Daman and Diu	India	Medium
Mumbai	Offices	Maharashtra	India	Medium
Thane	Thane Research and Cevelopment Centre (R&D)		India	Medium

4.2.5 Water Stress

The projections for 2030, 2040 and 2050 are carried out and the areas that would be prone to water stress is arrived using the "Aqueduct Water Risk Atlas" tool and applying both optimistic and pessimistic scenarios by IPCC.

	Water Stress Risk as per SSP 2.6 Scenario						
Location	Asset Type	State	Country	2030	2040	2050	
Ankaleshwar	Manufacturing Unit	Gujarat	India	Medium	High	Catastrophic	
Panoli	Manufacturing Unit	Gujarat	India	Medium	High	Catastrophic	
Daman	Manufacturing Unit	Daman and Diu	India	Medium	High	Catastrophic	
Mumbai	Offices	Maharashtra	India	Low	Medium	High	
Thane	Research and Development Centre (R&D)	Maharashtra	India	Low	Medium	High	
	Water St	ress Risk as pei	r SSP 8.5 S	cenario			
Location	Asset Type	State	Country	2030	2040	2050	
Ankaleshwar	Manufacturing Unit	Gujarat	India	Medium	High	Catastrophic	

Panoli	Manufacturing Unit	Gujarat	India	Medium	High	Catastrophic
Daman	Manufacturing Unit	Daman and Diu	India	Medium	High	Catastrophic
Mumbai	Offices	Maharashtra	India	Medium	High	Catastrophic
Thane	Research and Development Centre (R&D)	Maharashtra	India	Medium	High	Catastrophic

	Per capita water availability in region as per SSP 2.6 Scenario						
Location	Asset Type	State	Country	2030	2040	2050	
Ankaleshwar	Manufacturing Unit	Gujarat	India	High	High	Catastrophic	
Panoli	Manufacturing Unit	Gujarat	India	High	High	Catastrophic	
Daman	Manufacturing Unit	Daman and Diu	India	High	High	Catastrophic	
Mumbai	Offices	Maharashtra	India	Medium	High	Catastrophic	
Thane	Research and Development Centre (R&D)	Maharashtra	India	Medium	High	Catastrophic	
	Per capita water a	vailability in reg	ion as per	SSP 2.6 Sce	enario		
Location	Asset Type	State	Country	2030	2040	2050	
Ankaleshwar	Manufacturing Unit	Gujarat	India	High	High	Catastrophic	
Panoli	Manufacturing Unit	Gujarat	India	High	High	Catastrophic	
Daman	Manufacturing Unit	Daman and Diu	India	High	High	Catastrophic	
Mumbai	Offices	Maharashtra	India	High	High	Catastrophic	
Thane	Research and Development Centre (R&D)	Maharashtra	India	High	High	Catastrophic	

4.2.6 Transition Risk Scenarios

Transition risks are divided into four categories: Policy and Legal Risk, Technology Risk, Market Risk, and Reputation Risk.

The International Energy Agency (IEA) uses its Global Energy and Climate (GEC) Model in medium to longterm outlooks such as the World Energy Outlook (WEO) and the Energy Technology Perspective (ETP). This model employs a scenario approach to explore future energy trends, based on assumptions about how the global energy system might respond to the current crisis and develop in the future. The IEA offers four scenarios: Net Zero Emissions (NZE) by 2050, Announced Pledges Scenario (APS), Stated Policies Scenario (STEPS), and Sustainable Development Scenario (SDS).

Similarly, the Network for Greening the Financial System (NGFS) collaborated with climate scientists and economists to create a series of hypothetical scenarios that serve as a reference for understanding potential developments in climate change, policy, and technology trends. These scenarios illustrate a spectrum of risk outcomes, both high and low. NGFS presents six scenarios: Net Zero 2050, Below 2°C, Divergent Net Zero, Delayed Transition, Nationally Determined Contributions (NDCs), and Current Policies.

For JB Pharma, transition risks for their sites, offices, and R&D units were identified, and scenario analyses were conducted using the IEA and NGFS scenarios. The Divergent Net Zero Scenario from NGFS and the Announced Pledges Scenario from IEA were chosen for analyzing transition risks. The Divergent Net Zero Scenario envisions achieving net zero by 2050 through substantial investments in low carbon technologies. Meanwhile, the Announced Pledges Scenario aligns the net zero target with each country's Nationally Determined Contributions (NDCs) submitted to the UNFCCC.

Scenario analyses addressed various transition risks, including: enhanced emission reporting obligations (Policy and Legal Risk), carbon pricing (Policy and Legal Risk), litigation exposure (Policy and Legal Risk), increased CAPEX and OPEX due to transitioning to low emissions technology (Technology Risk), and negative stakeholder feedback (Reputation Risk). These transition risks were specifically analyzed for India, with impacts rated on a scale from Insignificant to Catastrophic.

Transition risks under Divergent Net Zero and Announced Pledges Scenario						
Enhance	Enhanced emission reporting obligations (Policy and Legal Risk)					
Divergent Ne	t Zero (I	DNZ)	Announced Pledge	es Scenario (APS)		
2030		2050	2030	2050		
Minor	I	Moderate	Insignificant	Moderate		
	Car	bon pricing (Po	licy and Legal Risk)			
Divergent Net Zero (I	ONZ)	А	nnounced Pledges Scena	rio (APS)		
2030		2050	2030	2050		
Moderate		Major	Minor	Moderate		
	Exposu	re to litigation ((Policy and Legal Risk)			
Divergent Net Zero (I	ONZ)	A	nnounced Pledges Scena	rio (APS)		
2030		2050	2030	2050		
Minor		Minor	Insignificant	Minor		
Increase in CAPE	X and (nsition towards low em ogy Risk)	issions technology		
Divergent Net Zero (I	DNZ)	А	nnounced Pledges Scena	rio (APS)		
2030		2050	2030	2050		
Major		Major	Moderate	Major		
N	legative	stakeholder fee	dback (Reputation Risk	x)		
Divergent Net Zero (I	ONZ)	A	nnounced Pledges Scena	rio (APS)		
2030		2050	2030	2050		
Minor	1	Moderate	Insignificant	Minor		

4.3 Key Physical & Transition Risks and Impacts Identified by JB Pharma

4.3.1 Key Physical Risks, Impacts (Business and Financial) & Opportunities Identified by JB Pharma

We have identified flood and heat stress due to extreme temperatures are key physical risks for our business.

Climate-related physical risks and their potential impacts on the business and finance of JB Pharma

Physical Risk	Projected Impac	ts on JB Pharma	
	Business Impact	Financial Impact	Opportunities
Acute Climate Risk: Severity of extreme weather events Flooding and Tropical Cyclone	 High 5-day precipitation could lead to flooding, resulting in temporary shutdowns, equipment damage, or delays in production. Water ingress and flooding can damage buildings, machinery and electrical systems Blackouts due to damage to grid electricity resulting in dependency on alternate form of power consumption such as DG sets, etc. Flash floods resulting in loss of connectivity Loss of working hours due to disruption in employee transportation Supply chain can get affected due to water logging situations Excessive rainfall could create hazards around facilities, especially if there is waterlogging, increasing the risk of accidents. Sea level rise and storm surge present substantial hurdles for coastal projects, amplifying flood risks, infrastructure vulnerability and adaptation 	 Capital expenditure due to damage to infrastructure Repair or replacement cost occurred due to cyclonic damage to property (breaking of façade glass, signage boards, and cooling tower shed) Coastal locations may see lower values and higher insurance costs due to increased flood risks from sea level rise and storm surge. Flooding may damage stored goods and raw materials, leading to financial losses and production delays 	Resilient infrastructure

Physical Risk	Projected Impac		
	Business Impact	Financial Impact	Opportunities
Chronic Climate Risk: Longer-term chronic changes in mean values and ranges of fluctuation of various climate variables Heat stress due to extreme temperature	 Decreased Property value of buildings located in areas prone to extreme heat or with inadequate heat resilience. High demand for air conditioning leading to high energy demands in offices. Increased HVAC Costs: Extreme heat necessitates higher usage of HVAC systems to maintain comfortable indoor temperatures, leading to increased energy consumption and operating costs. Disrupted electricity supply – dependency on DG sets: High temperatures can strain the electricity grid, causing power outages and increasing dependency on diesel generator (DG) sets, which are costlier and less efficient. Frequent Equipment Failures: Prolonged exposure to extreme heat can cause overheating and frequent failures of construction and operational equipment, leading to increased maintenance and replacement costs. Worker Health & Safety: Heat stress poses significant health risks to workers, including heat exhaustion and heat stroke, resulting in reduced 	 Increased operational expenses. Exposure to wet bulb temperatures exceeding 35°C can result in decreased productivity of workers at sites due to thermal discomfort, increased risk of heat strokes, and potential fatalities. Loss of revenue due to loss of productivity of workers might extend the project completion timelines leading to increase in project cost. Increased cost of health insurance for workers. Cooling technology to be employed at the construction site which will increase the cost. 	Use of more energy efficient equipments

Physical Risk	Projected Impac	ts on JB Pharma	
	Business Impact	Financial Impact	Opportunities
	productivity, higher medical costs, increased absenteeism, and potential project delays.		
Chronic risk - Water stress	 Present scenario projects the shortage of water for all the locations, this can lead to high cost of purchasing water and investment in water efficient equipment Regulatory compliance with water use restrictions imposed by local and regional authorities during times of water stress 	 Increased water demand may lead to high cost of purchasing water Capital expenditure for investment in water efficient equipment 	• Enhanced water efficiency
Chronic risk – Sea level rise	 Permanent shutdown of offices due to coastal flooding Increased maintenance and repair costs for coastal assets Higher operational costs due to transportation delays and damaged infrastructure Displacement and safety risks for employees and local communities. 	Higher premiums and potential loss of insurability for coastal assets	 Adoption of elevated structures and flood-resistant building materials Use of real- time flood monitoring and early warning systems

4.3.2 Key Transition Risks & Impacts Identified by JB Pharma

In the rapidly evolving landscape of the pharmaceutical industry, JB Pharma is navigating a complex array of transitional risks as it aligns its operations with global sustainability goals and regulatory frameworks. The transition towards a low-carbon economy presents significant challenges and opportunities, compelling companies to reassess traditional practices and adapt to emerging market realities. For JB Pharma, understanding and addressing these transitional risks is crucial to maintaining its competitive edge and ensuring long-term viability. This introduction explores the key transition risks identified by JB Pharma, highlighting the potential impacts on various aspects of its operations, including policy and legal compliance,

market dynamics, technological advancement, and reputational management. As the company charts its path forward, these insights form the foundation for strategic decision-making aimed at fostering resilience and sustainable growth.

Risk/Opportunities	Description	Projected Impac	cts on JB Pharma	
Indicator		Business Impact	Financial Impact	Opportunities
Policy and Legal Risk	 Enhanced reporting obligations under India's BRSR framework Carbon pricing mechanisms Stringent environmental regulations and litigation 	 Increased costs for compliance with disclosure norms Penalty for non- compliance with waste disposal rules under state pollution control boards Increased costs due to EPR (Extended Producer Responsibility) under under Plastic Waste Management Rules, 2016 regulations 	 Increased operational expenses. 	 Capitalizing on India's upcoming carbon market and renewable energy incentives Improved waste management practices
Technology Risk	Increased CAPEX and OPEX for transitioning to low-emission technology in Indian industries.	 Our scenario analysis indicates a likely increase in stringent policy implementation in the short to mid-term future in India. India has taken a national target of net zero by 2070. We need to align our businesses with this target, at the least. India has set a target of achieving 500 gigawatts (GW) of renewable energy 	 Increase in the capital expenditure. Increased operational expenses. R&D Expenditure Compliance fines Operational expenses for the purchase of renewable energy Capital expense for setting up of solar power generation in owned assets 	 Deployment of resource- efficient technologies to reduce energy consumption in manufacturing Scaling renewable energy through India's open access solar and wind energy markets

Summary of Transition Risks and Projected Impacts on JB Pharma

Risk/Opportunities	Description	Projected Impac		
Indicator		Business Impact	Financial Impact	Opportunities
		 capacity by 2030. With the increased push towards renewable energy across all sectors, this would result in a need to increase renewable energy in the energy mix of JB Pharma. Higher investments required for adoption of clean technologies and R&D 		
Market risk	 Increasing demand for sustainable products and services. Volatile carbon credit prices in carbon market Growing preference for ESG- compliant suppliers in procurement 	 Unpredictable operational costs Loss of market share due to inability to meet customer expectations Exclusion from supply chains for non-compliance with buyer requirements 	Loss to market share	 Leveraging emerging carbon trading mechanisms for cost efficiency Enhancing market position through alignment with global sustainability standards
Reputational Risk	Negative feedback from Indian stakeholders	Reputation damage for failing to meet stakeholder expectations	 Loss of brand image, hence sales. 	 Improved stakeholder engagement through proactive ESG initiatives Enhanced reputation through transparent disclosures

3

Risk Management

5. Risk Management

Our risk management strategy is designed to align with our business objectives through a structured approach to risk categorization. This framework facilitates regular interaction between leadership and management, with the Board of Directors providing oversight. Climate-related risks have been thoroughly assessed and integrated into our risk management processes, and we are incorporating climate change considerations into our business continuity plans. To ensure comprehensive risk identification and management, we have designated Risk Champions across all functions and business segments. These individuals collaborate with the Chief Financial Officer (CFO) to update risk registers twice a year, maintaining an adaptive and responsive approach to emerging risks.

5.1 Key Elements of JB Pharma's Risk Management:

- 1 Risk Identification: We follow a structured process to identify climate and ESG-related risks across various areas, including market shifts, regulatory changes, operational vulnerabilities, and environmental impacts in alignment with TCFD principles.
- 2 Risk Assessment: Climate and ESG risks are evaluated to determine their likelihood and potential impact. We use both quantitative and qualitative methods to prioritize these risks, supporting effective decision-making and mitigation strategies.
- 3 Risk Registry Maintenance: After assessing climate and ESG risks, the Chief Financial Officer (CFO) ensures they are documented in the risk register, creating a centralized repository for tracking and updates.
- 4 Risk Reporting: Risk Champions conduct quarterly reviews of the risk register, focusing on climate and ESG risks in their respective business segments. They collaborate with the CFO to identify priority risks, which are then presented with mitigation plans to the Risk Management Committee (RMC) on an annual basis by the CEO.
- 5 Risk Mitigation and Monitoring: Quarterly reviews by Risk Champions track progress on climate and ESG risk mitigation plans approved by the Board of Directors or the RMC. The CEO consolidates updates from Risk Champions regarding the status and timelines of these plans.
- 6 Risk Categorization: Climate and ESG risks are categorized during quarterly risk register reviews. The CFO ensures that significant risks and their mitigation strategies are submitted to the RMC for semiannual reviews, fostering a proactive and dynamic approach to managing climate and ESG risks in line with TCFD recommendations.

5.2 Integration of climate risks into our Enterprise Risk Management (ERM) Processes:

The integration of climate risks into our Enterprise Risk Management (ERM) framework strengthens our ability to address environmental challenges and safeguard our assets. By embedding climate-related considerations into risk management, we systematically assess risks across properties and portfolios, identify vulnerabilities, and explore opportunities for adaptation and mitigation. Key factors such as extreme weather events, sea level rise, regulatory shifts, and evolving market dynamics are evaluated to understand their impact on our operations and strategy. In alignment with our commitment to proactive risk management, JB Pharma incorporates climate risk considerations into its practices through:

1. **Risk Identification**: Evaluating climate-related threats and opportunities including physical and transitional risks, across operations and assets.

- 2. **Risk Assessment**: Using both qualitative and quantitative analyses to prioritize risks based on their likelihood and potential impact.
- 3. **Mitigation and Adaptation Planning**: Developing and implementing strategies to reduce climate-related vulnerabilities and enhance asset resilience.
- 4. **Integration into Business Continuity**: Embedding climate risk considerations into continuity planning to ensure operational stability under changing environmental conditions.

The table provided below outlines a summary of the identified physical climate risks, accompanied by the respective measures for mitigation and adaptation.

Physical Risk	Risk Mitigation and Adaptation		
NISK	Mitigation Measures	Adaptation Measures	
Acute Risks such as Tropical Cyclone and Flooding	 Asset-level interventions such as suitable stormwater drainage from the roof and throughout the campus, sufficient water and damp-proofing, suitable hardscape and softscape materials, etc. Investing in solar-powered backup systems and battery storage units for offices Provide secure housing and ensure the safety of workers during such events. Install water diversion channels and rainwater harvesting systems to manage excess water and reduce flood risk. Using permeable pavements and absorbent ground covers to mitigate runoff. 	 Elevating structures above potential flood levels based on historical flood event levels in the region. Considering developing comprehensive flood response and evacuation plans. Integrating green infrastructure to absorb rainwater and reduce runoff at the site. Strengthening critical infrastructure such as power lines and communication networks to withstand cyclone impacts. Ensuring adequate insurance coverage for all potential climate-related risks, including floods, wildfires, and cyclones. Incorporating climate risk assessments into financial planning Improving drainage systems to manage high precipitation levels and prevent waterlogging. Designing and implement landscaping that promotes natural water absorption in high-precipitation areas. Training staff on an emergency flood response protocol particularly at high-risk sites. Keeping emergency supplies (e.g., pumps, sandbags) and ensure staff know how to deploy them effectively. Incorporating the clock hour correction factor as per Central Public Health and Environmental Engineering Organisation (CPHEEO) 2019 guidelines in the stormwater drainage design at Indian locations will help to strengthen the stormwater drainage system. 	

Summary of Physical Risks: Mitigation and Adaptation Measures

Physical Risk	Risk Mitigation and Adaptation		
RISK	Mitigation Measures	Adaptation Measures	
Chronic Risk - Heat stress due to extreme temperature	 Introducing energy-efficient and star-rated cooling systems with low Global warming potential (GWP) Review insurance policies to ensure adequate coverage for heat-related damages and consider additional coverage options as needed. Pre-construction site assessments for heat challenges Reducing dependence on grid electricity-on-site solar panels at office locations, battery storages. Investing in energy-efficient HVAC systems and renewable energy Educating workers on heat stress prevention measures and adjusting work schedules to avoid the hottest times of the day. 	 Passive Cooling Systems: Integrate passive cooling strategies, such as natural ventilation, shading devices and thermal insulation, into building design to reduce reliance on mechanical cooling systems. Evaporative Cooling: Explore evaporative cooling technologies, such as misting systems and evaporative coolers, as energy efficient alternatives to traditional air conditioning. Modify facility design with heat-resistant materials and natural ventilation for long-term comfort and safety. Remediation measures from heat stress should be embedded in the SOPs for workers at the construction site of JB Pharma. Implementing Heat Stress Prevention: Educating workers on heat stress prevention measures and adjusting work schedules to avoid the hottest times of the day. 	
Chronic Risk - Sea Level Rise	 Coastal hazard zoning and future prediction on sea-level rise Development of engineered structures such as flood barrier walls, levees and sea walls Implement advanced drainage and pumping systems to prevent waterlogging 	 Raise buildings, internal roads and critical facilities above projected sea levels. Relocate vulnerable communities and assets to safer inland areas. 	
Chronic Risk - Water stress	 Water efficiency mechanisms such as reuse and recycling of water, rainwater harvesting Water efficiency fixtures, such as faucets and water closets, at offices 	 Water consumption reduction targets Reducing reliance on procuring water from water stressed regions 	

Summary of Transition Risks: Mitigation Measures

Transition Risk	Mitigation Measures
Policy and Legal	Reduction in emissions year-on-year
Technological Risk	 In FY23-24, we expanded our renewable energy use by sourcing power from solar and wind and installing solar rooftops. 200kW rooftop solar energy system at Daman plant generating 226107 kWh of electricity

Transition Risk	Mitigation Measures	
	 2.7 MW of wind power and 0.63 MW of solar capacity receiving a total of 13139644 kWh of electricity Onsite renewable power generation through rooftop solar panels Invest in offsite renewable power generation projects. Enter into renewable Power Purchase Agreements. 	
Market Risk	 Incorporate sustainable supply chain throughout operations. Actively participate in industry conferences and declare JB Pharma's stance on green building practices. 	
Reputational Risks	 Continuous assessment of customer needs. Regular communication with stakeholders about non-financial Key Performance Indicators (KPIs) 	

4

Metrics & Targets

6. Metrics and Target

6.1 Our Key Targets:

JB Pharma remains dedicated to addressing climate, ESG, and sustainability challenges by setting a variety of medium and long-term goals. In accordance with the TCFD framework, this section showcases our environmental and climate-related aims and achievements. Our annual report for 2024 provides an indepth look at our extensive targets.

Indicator	Our Targets
Emissions	Carbon neutral in direct operations (Scope 1 and 2 emissions) by FY
	2032-33.
Energy	To meet 40% of power demand from renewable energy by FY 2026-
	27 and 100% by FY 2032-33.
Water positivity	To achieve water positivity by FY 2032-33.
Zero waste to landfill	To achieve Zero waste to Landfill by FY 2032-33.

6.2 Our Progress towards Our Targets

Energy consumption (GJ) from renewable and non-renewable sources

Metric	FY 2022-23	FY 2023-24
From renewable sources (GJ)		
Total electricity consumption	8464.89	48108.06
Total fuel consumption	0	0
Energy consumption through other sources	0	0
Total	8464.89	48108.06
From non-renewable sources (GJ)		
Total electricity consumption	229598.64	187947.84
Total fuel consumption	169547.91	133161.31
Energy consumption through other sources	0	1661.44
Total	399146.56	322770.59

6.3 Emissions (MtCO2e)

Direct Greenhouse Gas Emissions (Scope 1) and Indirect Greenhouse Gas Emissions (Scope 2)

Metric	FY 2022-23	FY 2023-24
Scope 1 (metric tonnes of CO2 equivalents)	10096.64	8608.58
Scope 2 (metric tonnes of CO2 equivalents)	45281.95	37544.06
Total Scope 1 and Scope 2 (metric tonnes of CO2 equivalents)	55,378.59	46,152.64

Indirect Greenhouse Gas Emissions (Scope 3)

Metric	FY 2022	FY 2023
Scope 3 (metric tonnes of CO2 equivalents)	136837.62	188961

5

Way Forward

7. Way Forward

Navigating Climate Risks and Building a Resilient Future

The pharmaceutical sector, integral to global health and well-being, faces growing challenges due to climate change. Rising global temperatures, extreme weather events, and shifts in ecosystems pose direct threats to the supply chain, manufacturing processes, and product efficacy. Climate-induced disruptions, such as floods, droughts, and hurricanes, can damage critical infrastructure, delay the transport of raw materials, and increase the cost of energy-intensive operations, leading to potential shortages of essential medicines.

At JB Pharma, we recognize the critical role of addressing climate change in shaping a sustainable future. In FY 2024, we achieved a significant milestone by reducing our Scope 1 and Scope 2 emissions intensity per rupee of turnover by 22.2% and achieving a 13.9% absolute reduction in these emissions. Additionally, through our growing focus on renewable energy, we avoided 9,216.7 tCO₂ emissions and derived 12.1% of our total energy demand—equivalent to 46,341 GJ—from renewable sources, marking a 5.7% absolute reduction in total energy consumption. There is an urgent need to adopt sustainable and climate-resilient strategies. From ensuring the security of supply chains to transitioning to low-carbon manufacturing and developing solutions for emerging climate-related health issues, the sector must evolve to navigate the complexities of a rapidly changing environment.

Our commitment to sustainability is underpinned by ambitious targets. We aim to meet 40% of our power demand from renewable energy by FY 2026-27 and achieve 100% by FY 2032-33. Furthermore, we are steadfast in our goal to achieve carbon neutrality in our direct operations, encompassing Scope 1 and Scope 2 emissions, by FY 2032-33.

The Task Force on Climate-related Financial Disclosures (TCFD) framework provides us with a structured approach to assess, manage, and disclose climate-related risks and opportunities. By aligning our strategy and governance with TCFD recommendations, we are enhancing our ability to anticipate regulatory changes, innovate across our value chain, and strengthen resilience to climate impacts. This framework not only reinforces our accountability but also enables us to embed climate considerations into business planning, ensuring we remain well-positioned to meet stakeholder expectations.

Our collective efforts are guided by the belief that addressing climate change is not just a responsibility but also an opportunity to build a future-ready organization. We remain steadfast in our journey to contribute to global climate action and drive meaningful impact, ensuring long-term value creation for our business and the communities we serve.

Looking ahead, we are committed to deepening our investments in renewable energy, exploring energy efficiency solutions, and integrating cutting-edge technologies to accelerate our decarbonization journey. TCFD will continue to serve as a critical guidepost in shaping our climate action agenda, empowering us to contribute meaningfully to the global transition to a low-carbon economy.

Regards,

Kunal Khanna

8. Glossary

- AR Assessment Report
- BoD Board of Directors
- **CDP** Carbon Disclosure Project
- CEO Chief Executive Officer
- CFO Chief Financial Officer
- CO2 Carbon Dioxide
- CRA Climate Risk Assessment
- CRO Chief Risk Officer
- CSR Corporate Social Responsibility
- DG Diesel Generator
- DJSI- Dow Jones Sustainability Indices
- ERM Enterprise Risk Management
- ESG Environmental, Social and Governance
- GHG Greenhouse Gas
- GJ Gigajoule
- GW Global Warming
- GWP Global Warming Potential
- HOD Head of Department
- IPCC Intergovernmental Panel on Climate Change
- MTCO2e Metric Tons of Carbon Dioxide Equivalent
- NGFS Network for Greening the Financial System
- R&D Research and Development
- RMC Risk Management Committee
- SOPs Standard Operating Procedures
- SSP Shared Socioeconomic Pathways
- TCFD Task Force on Climate-related Financial Disclosures

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