**Sustainability Factsheet**

**Company Profile**

Dalmia Bharat Group is a leading Indian conglomerate with a strong presence in Cement, Sugar and Refractories. The Group has a turnover of over 11,000 crore. Dalmia Bharat commenced operations in 1939 by late Shri Jaidayal Dalmia and has played a defining role in India's manufacturing sector. The Dalmia Bharat Group enjoys a legacy of eight decades in driving core sectors of the Indian economy. Dalmia Bharat Group has a leading presence in southern, eastern and north-east India through its cement business, and in northern India through its sugar business. Headquartered at New Delhi, the Group caters to an enduring and growing customer base in refractories and has forayed into sustainable clean energy. Its cement business has grown exponentially since 2006 in terms of capacity and production and the company is a leader in the specialty cements space. Dalmia Cement is the only cement company in the world to have the lowest carbon footprint. In sugar, the Group is a prominent generic player catering to most of the leading businesses in India. The Group also caters to an enduring and growing customer base in the refractories business and has forayed into sustainable power/energy.

Sustainability has always been a way of life at Dalmia, the Group is globally ranked No 1 by CDP for business readiness to a low carbon transition and have achieved lowest carbon footprint in the cement world globally. We are five times water positive and are the first cement company in the world to join both EP100 and RE100. We are committed to consuming 100% renewable energy by 2030 and are committed to becoming Carbon Negative by 2040. We are switching from fossil fuels to green fuels including biomass. Dalmia Cement has also partnered with International Finance Corporation to promote sustainable business.

Our Achievements Highlights in our Sustainability pursuit are listed below:

**Sustainability Achievements**

**Sustainability Profile:**

Globally ranked no.1 by CDP (formerly Carbon Disclosure Project)

* Achieved lowest carbon footprint in the cement world. 40 percent lower carbon footprint compared to Global levels
* First company in the world to join both Energy Productivity (EP 100) and Renewable Energy (RE 100) campaign by The Climate Group
* Five times water positive. The Company enabled water harvesting of 22.53 lakh cubic metres of water in 2017-18, resulting in an aggregate of 45.06 lakh cubic metres of water harvested annually
* Committed to becoming carbon negative by 2040
* Commissioned 8 MW captive solar PV project
* Additional green energy projects of 40 MW are in the pipeline, under fossil free electricity initiative
* We are a signatory to the WBCSD WASH at the Workplace Pledge. We constantly work to ensure that all our employees have an access to high standards of Safe Water, Sanitation and Hygiene at the Workplace
* Over 10,000 people drinking clean water taken from community RO plants set-up with our assistance
* Largest producer of slag Cement in India (Low Carbon Green Cement)
* Use of alternate fuels like slag and fly ash to build more sustainable business
* Built water harvesting ponds in mines area and roof top water harvesting structures at plant locations
* Established safety systems, extensive employee communication to work towards culture of safety. The company prioritized the need for continuous learning, innovation and creativity by drawing an annual plan in the area of safety and environmental training
* One of the ﬁrst business groups in India to commission 16.5 MW wind farm in 1993
* Commissioned 8 MW captive solar PV projects and 9.2 MW waste heat recovery project Commissioned
* We have already doubled our energy productivity in 2015 compared to 2005 levels. We intend to further double our energy productivity by 2030

**Sustainability Highlights**

**Sustainability Profile:**

* In a rare recognition of senior leadership in combating climate change, Mr. Mahendra Singhi, MD & CEO, Dalmia Cement (Bharat) Ltd. was invited by His Excellency Mr. Ban Ki-moon (Ex Secretary General United Nations) to participate in Paris Agreement Signing Ceremony in 2016
* Mr. Singhi was also invited by H. E. Mr. Mogens Lykketoft to chair High-Level roundtable discussion on Sustainable Development Goals (SDGs) adopted in 2016 by the world
* Dalmia Cement (Bharat) Limited has adopted the Sustainable Development Goals (SDGs) in our own capacity to ensure faster realization of SDGs near our manufacturing locations
* Dalmia Cement one of the only 3 Indian companies are in line with the global goal to limit temperature rise to 1.5C and reach net-zero carbon emissions, ahead of the UN Climate Action Summit

**Dalmia Cement joining Fossil free electricity initiative (RE 100)**

The Conference of Parities (COP-22) Energy Day on 11th November at Marrakesh in Morocco witnessed unique development when a core manufacturing sector company Dalmia Cement joined RE 100 – an ambitious campaign of leading conglomerates of the world; but only one from global cement sector to commit to a long term transition to renewable energy.

One of the major component of our Green to Greener roadmap is “Fossil free electricity initiative”. The need for the initiative was felt due to two reasons:

1. Preparing our operations from futuristic costs of energy related externalities
2. Tapping the saving opportunities of clean energy transition.

Under the initiative, we have identified 40 MW green power generation potential through waste heat recovery from exit gases in our integrated cement plants. A 10 MW project is under implementation and another project of 9 MW is under final stages of approval. In a significant thrust to renewable electricity generation, Dalmia Bharat has commissioned 8 MW captive solar PV projects in our Eastern India operations. Another Solar PV project of 12 MW and various rooftop solar PV projects are under various stages of implementation

**Dalmia Cement’s commitment to doubling the energy productivity (EP 100)**

EP 100 is another ambitious campaign that aims doubling the Energy Productivity by 2030. Dalmia Cement (Bharat) Limited, being first company from cement sector, became signatory to EP 100 and voluntarily committed to doubling the energy productivity by 2030.

**Water positivity – Harvesting more water than we consume**

The water crisis in India has snowballed into a national level issue due to exploitation of groundwater in infrastructure projects, agricultural and industrial use. Considering corporate responsibility of living in harmony with local communities through minimizing the competing use of water, Dalmia Cement took a target to become water positive by 2017. We created various check dams, farm ponds, rehabilitation of village ponds, etc. through Dalmia Bharat Group Foundation (DBGF) for rain water harvesting and recharging groundwater. Additionally, we reduced the freshwater demand in our cement plants through use of harvested rainwater in plants and recycled water use. As a result, Dalmia Cement became water positive in FY 2016-17 at group level. However, water being a local subject, we are further driving this target down to plant level so that each cement plant of Dalmia Bharat Group would be water positive at local watershed level within a year time.

**One of the lowest CO2 footprint in global cement sector**

At Dalmia Cement, the overall carbon footprint of the group for FY 2016-17 (scope 1) was 526 kg CO2. Carbon footprint of the blended cements produced at our Eastern Operations was just 342kg/ton of cementitious product in FY 2016-17 (scope 1). Considering the scale of production, such low carbon intensity cement probably positions us as the lowest carbon footprint cement producer globally. In order to increase the native plantation and biodiversity inside and near our cement plants, we have changed old concept of “Garden in Cement Plant” to Cement Plant in a Garden” and adding carbon sinks (tree plantations) across our manufacturing locations.

Carbon Footprint Scenario in Cement Sector: Net CO2 emissions in kg /ton of Cementitious material

1. Global average - 900
2. Global CSI member company average - 616
3. Indian CSI member company average - 578
4. Dalmia Bharat Group average – 526
5. Dalmia Bharat East Operations average - 342

**Environmental and Social Performance**

* **Clean Water and Sanitation**

1. We are signatory to the WBCSD WASH Pledge. We constantly work to ensure that all our employees have access to high standards of Safe Water, Sanitation and Hygiene at the Workplace and extending WASH to local communities too
2. Over 10,000 people drinking clean water taken from community RO plants set-up with our assistance

* **Affordable and Clean Energy**

1. One of the ﬁrst business groups in India to commission 16.5 MW wind farm in 1993
2. Commissioned 8 MW captive solar PV projects and 9.2 MW waste heat recovery project Commissioned
3. We have already doubled our energy productivity in 2015 compared to 2005 levels. We intend to further double our energy productivity by 2030
4. Additional green energy projects of 40 MW capacity are in the pipeline, under fossil free electricity initiative

* **Responsible Consumption and Production**

1. Share of industrial waste origin fuels to total fuel mix (in %) has gone up from 45 in 2014 to 81 in 2017
2. In a signiﬁcant contribution to circular economy, about 30% of our raw material for cement comes from industrial waste.

* **Business and Biodiversity**

1. As a responsible group it is our endeavor to develop, implement and disseminate good practices leading to conservation of biodiversity and protection of natural capital. As a step towards driving environmental conservation, we plant indigenous species as recommended by the forest department as well as new varieties in the plant and around the mines.
2. Being an IBBI member company, various initiatives are taken to help in biodiversity conservation:
   * Eco-friendly mining practices
   * Creation of water bodies in plants and mines
   * Native tree plantations
3. Taking up 8500 Ha. Watershed development programme through Dalmia Bharat Foundation

* **Alternative fuels including Biomass**

We are switching from fossil fuels to green fuels including biomass. We have accelerated the use of industrial and municipal wastes to replace the use of fossil fuels in pyro-processing, helping us to avoid fuel related CO2 emissions. On group level we reached 4% Thermal Substitution Rate (TSR) as compared to nearly 0.5% five years back. We also developed pockets of excellence in some plants where nearly 18% TSR was achieved.

This is a segment which carries more potential in India if prevailing policies become more conducive towards advancing the use of alternative fuels in cement kiln.

Use of alternative fuels is directly linked to our business philosophy of clean and green is profitable and sustainable. It adds to our profitability and at the same time reduces the GHG emissions from cement operations. Moving forward, we are strengthening our fuel feeding systems further with investments to make more use of both solid and liquid alternative fuels.

We are creating a specific oriented roadmap to increase alternative fuel use in our group to reach the levels of 30% (by 2023), 70% (by 2030) and 100% (by 2040). To reach such ambitious levels of alternative fuels use, we are embarking upon the journey of growing the selective energy crops (such as bamboo, having more carbon) to use it in co-processing, apart from increasing the utilization of wastes derived fuels

**Membership and Associations**

In our efforts to reduce our environmental footprint and adopt the industry best practices followed globally, we have partnered with industry associations and forums.

* We are a member of Cement Sustainability Initiative (CSI), a sector project World Business Council for Sustainable Development (WBCSD).
* We have partnered with International Finance Corporation (IFC) to promote sustainable business by adopting low carbon technologies.
* We are also an active member of TERI Council for Business Sustainability (CBS) and having representation in the Thematic Advisory Groups (TAG) on Energy, Water, Sustainability Reporting and Corporate Social Responsibility.
* We have joined Carbon Pricing Leadership Coalition (CPLC), an initiative by World Bank, to support carbon pricing through market based mechanisms.
* We are also member of Confederation of Indian Industry (CII) Sustainability Council.
* We are a member with United Nations Global Compact (UNGC), India Business Biodiversity Initiative (IBBI), C4C (Caring for Climate)
* We are a signatory to the WBCSD WASH at the Workplace Pledge

**Media Contacts**

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