

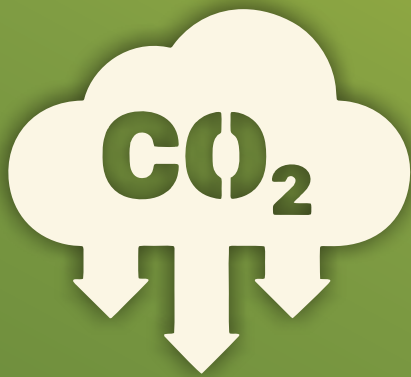


GEMSCAB
GREEN

GEMSCAB[®]
CABLES

THE RIGHT CONNECTION

GEMSCAB Introduces Low-Carbon Power Distribution Cables



GEMSCAB continues its commitment to the green transition with the launch of an advanced power distribution cable “Gemscab Green” featuring a significantly lower carbon footprint.



Manufactured at GEMSCAB's Rajasthan facility—powered with renewable sources as well—this next-generation cable incorporates low-carbon aluminum and sustainable polyolefins, setting new standards for eco-friendly power solutions.

With this cable, GEMSCAB takes a leading role in developing sustainable power distribution systems.

This project exemplifies our successful collaboration in advancing greener cable technologies without compromising quality.

Innovative, Low-Carbon Materials

The cable's aluminum core is produced using an efficient electrolysis process powered by renewable energy, resulting in a carbon footprint of just 4 kg CO₂ per kg of aluminum—less than a quarter of the global average. Meanwhile, the insulation and sheathing utilize renewable feed stocks while maintaining the same high-performance properties as virgin polyolefins.

Products with Low-Carbon Materials

Only our highest scoring cables are included in the ECO Cable concept, LV 1.1kV, MV up to 33kV & HV up to 66kV Cables along with full disclosure of their scores.



Our Commitment

- Every facet of our business, including innovative technology, material selection, vendor assessment, cable design, manufacturing procedures and energy optimization, employee safety and logistics, is interwoven with enhancing sustainability. Essentially encompassing the entire supply chain.
- We have reduced our **PCF up to 32%*** while adopting sustainable raw materials.
- The Carbon Disclosure Project (CDP) and GEMSCAB have an ongoing collaboration to collect and assess our efforts, set goals, and plan future initiatives to address climate risk and lower carbon emissions.
- Further more, GEMSCAB is dedicated to accomplishing verified SBTi (Science Based Targets Initiative) targets to achieve net-zero carbon emissions for Scope 1 & 2 by 2050 and for Scope 3, 80% by 2050 versus baseline 2022, with the intermediate target of cutting carbon emissions by 40% for Scope 1 & 2 and 20% for Scope 3 by 2030 versus baseline 2022.



Targets of Sustainability

GEMSCAB sustainability strategy is based on UN

Sustainability Development Goals (SDG) and challenging targets on yearly basis.



Assessment criteria for “Gemscab Green” cable:

- **Carbon Footprint –**
Indicates a cable's CO₂-emission acc.to GEMSCAB “cradle-to-gate” calculations based on LCA done with SIMAPRO 9.5.0.0 Professional Version and ECOINVENT v3.9.
- **Material Sustainability & 3R Practices –** It is mandate for us to maintain 3-R in our activities and our results indicates the intended outcome of effectiveness of **Reduce, Reuse & Recycle**
- **Waste Reduction & Recycling –** Indicates the presence of recycled materials in a cable, both purchased from external suppliers or reused internally by GEMSCAB.
- **Low Environmental Impact Materials –** Using eco-friendly insulation and sheathing materials. Complying with LPCB-fire class acc.to EN 6387, Smoke emission IEC:61034 and IEC: 60754-1& 2.
- **Durability & Product longevity –** Extended product lives pan to reduce waste and resource consumption. Cable efficiency measurement compliance with international standards for durability: IEC60502/1&2, IEC60840.
- **Chemical Safety –**
Gemscab is committed to reduce the amount of chemical substances used in their manufacturing processes, aiming to minimize environmental impact and potential health risks associated with chemical exposure, often by exploring alternative, more sustainable methods and ingredient.



Our Target/ Commitment to Transparency & Sustainability



We are progressive towards reduction of our emission footprints. We achieved reduction in our GHG footprints as well as product carbon footprint. As a further step in the project, we are currently developing EPDs (Environmental Product Declarations), a third-party verification that will report and account for the CO₂ savings from the cable's entire life cycle.



“We recognize the increasing demand for environmentally friendly products and are proud to introduce an innovative solution developed in close collaboration with our customers and suppliers.”



By pioneering sustainable materials in power cable manufacturing, Gemscab strengthens its commitment to a greener future—one cable at a time.

***PCF reduction** up to 32% was done in 2023–24 by using low carbon materials and by transportation from nearest source, based on SIMAPRO software 9.5.0.0 professional version and ecoinvent v3.9.

DISCLAIMER:

The “Gemscab Green”Cable declaration is based on current industry standards and sustainability criteria. Compliance may vary depending on regional regulations and material sourcing. This declaration does not guarantee absolute environmental impact reduction. Users are encouraged to verify specifications for their specific applications.





ACCREDITED[®]
Management System
Certification
MSCB-119



GEMSCAB INDUSTRIES LIMITED

An ISO 9001, ISO 14001, OHSAS 18001 Certified Company

WORKS

Unit-I

SP-1192/L & K, Phase-IV, RIICO Industrial Area
Bhiwadi, Distt. Alwar (Rajasthan) - 301 019
Ph.: +91-7230085142, 7230085143, 7230085144
Fax: +91-1493-222752

Unit-II

SP-4-868/869, RIICO Industrial Area
Pathredi, (Near Bhiwadi), P.O. Tapukara
Dist. Alwar (Rajasthan) - 301 707
Ph.: +91-7230085145, 7230085146

CORPORATE OFFICE

704-707, 7th Floor, Vikrant Tower, 4, Rajendra Place New Delhi - 110008
Ph. 011-42151572 • Fax: 011-45136501
E-Mail: delhi@gemscab.com

BRANCH OFFICES

Mumbai

519, Laxmi Plaza, Laxmi Industrial Estate
Andheri (West), Mumbai - 400 053
Ph.: +91-22-26351354, 26351356
Mobile: +91 9223170503, 9223171494
E-mail: mumbai@gemscab.com

Chennai

113, 1st Floor, Gee Gee Shroff Centre
Poonamalle High Road, Chennai - 600 084
Ph.: +91-44-43307098
Mobile: +91 9282349620
E-mail: mrwoof@gemscab.com

Kolkata

5th Floor, 29, Ganesh Chandra Avenue
Kolkata - 700 013
Ph.: +91-33-40037819
Mobile: +91 9830125253
E-mail: vedantgupta@gemscab.com

Representatives

Bangalore, Hyderabad, Coimbatore, Chandigarh, Ahmedabad, Nagpur, Lucknow, Bhubaneswar,
Jaipur, Dehradun, Ludhiana, Indore, Vadodara, Raipur

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