

SHIVA CONSULTANCY GROUP (SCG): STRENGTHENING ENVIRONMENTAL COMPLIANCE & SUSTAINABILITY FOR MINING SECTOR



Promoting responsible practices in mining environmental management

SCG OVERVIEW AND CORE COMPETENCIES



TITLE SLIDE

Environmental Compliance Focus

SCG prioritizes environmental stewardship to ensure mining operations comply with regulations and promote sustainability.

Strategic Planning Expertise

The consultancy provides strategic planning to align mining projects with sustainable growth and financial stability.

Financial Acumen in Mining

SCG integrates financial expertise to optimize mining operations while ensuring economic sustainability.

Sustainable Growth Commitment

SCG guides mining companies towards responsible growth balancing economic and environmental goals.



SCG'S CORE COMPETENCIES IN ENVIRONMENTAL & SUSTAINABILITY CONSULTING

Comprehensive Consultancy Services

SCG provides environmental, financial, and techno-strategic consulting tailored to mining, industrial, and infrastructure sectors.

Holistic Sustainability Approach

SCG ensures sustainability is addressed from project inception through execution with a holistic methodology.

Alignment with Global Frameworks

SCG aligns its consultancy with IPCC, MoEF&CC, CPCB, and SEBI-BRSR for regulatory compliance and credibility.

Integrated Expertise for Efficiency

SCG's integrated expertise enables seamless coordination across domains, enhancing project efficiency and compliance.



GHG EMISSIONS AND CARBON SEQUESTRATION





GHG EMISSION INVENTORY (SCOPE 1, 2 & 3)

GHG Emission Scopes

SCG quantifies greenhouse gases across Scope 1, 2, and 3, covering direct and indirect emissions comprehensively.

Standardized Methodology

Methodologies follow IPCC 2006, CPCB, and GHG Protocol standards to ensure accuracy and regulatory compliance.

Emission Inventory and Metrics

Detailed CO₂-equivalent inventories and emission intensity per production ton provide clear environmental impact insights.

Comprehensive GHG Reporting

Final reports support regulatory submissions and strategic planning for effective emission reduction and transparency.

CARBON SEQUESTRATION ASSESSMENT THROUGH GIS & REMOTE SENSING

GIS and Remote Sensing Technologies

GIS and remote sensing enable detailed mapping of vegetation and carbon stocks using NDVI and satellite imagery for accurate assessments.

Field Validation and Biomass Sampling

Fieldwork and biomass sampling complement remote data to ensure precision in carbon stock assessments and data validation.

Carbon Balance Assessment

Assessment results determine carbon surplus or deficit, informing strategies to balance carbon emissions and sequestration effectively.

Strategic Carbon Offset Planning

Carbon modeling tools support planning and simulation of sequestration initiatives to help meet sustainability and climate goals.



SUSTAINABILITY REPORTING AND ENVIRONMENTAL MANAGEMENT



SUSTAINABILITY AND ESG (BRSR/SDG) REPORTING

Alignment with Frameworks

SCG aligns ESG reporting with MoEF&CC, SEBI-BRSR guidelines, and UN Sustainable Development Goals for regulatory compliance.

ESG Scorecards and Metrics

Development of ESG scorecards integrates carbon, social, and governance metrics for comprehensive sustainability assessment.


Transparent Stakeholder Communication

Reporting systems enable organizations to communicate sustainability performance clearly to stakeholders and regulatory bodies.

BRSR-aligned Sustainability Report

Final reports comply with BRSR standards enhancing corporate reputation and building stakeholder trust.





ENVIRONMENTAL AUDITS, LCA & CARBON NEUTRAL ROADMAPS

Comprehensive Environmental Audits

SCG conducts audits covering greenbelt, air, water, noise pollution, and EMP compliance to identify improvement areas.

Life Cycle Assessments (LCA)

LCA evaluates environmental impacts of products and processes following ISO 14040/44 standards throughout their lifecycle.

Carbon Neutral Roadmaps

SCG develops tailored carbon neutral strategies guiding organizations toward net-zero through actionable sustainability steps.

CLIMATE RISK AND COMMUNITY IMPACT



CLIMATE RISK, RESILIENCE PLANNING & TEV/DPR

Climate Risk Assessment

SCG uses the TCFD framework to identify physical and transition risks linked to climate change and map vulnerabilities.

Resilience Planning

Adaptation measures are proposed to enhance resilience against climate impacts in mining and industrial sectors.

Financial Feasibility Analysis

Studies include CAPEX, IRR, DSCR, and lifecycle costs to evaluate project financial viability comprehensively.

TEV/DPR Reports

Techno-Economic Viability and Detailed Project Reports support sustainable investment and informed decisions.



CSR & COMMUNITY IMPACT STRATEGY

Baseline Socio-Economic Surveys

SCG conducts thorough socio-economic surveys to understand community needs and measure impact accurately.

Alignment with Legal and SDGs

CSR planning follows the Companies Act Schedule VII and Sustainable Development Goals for legal and social compliance.

Carbon-Positive Livelihood Programs

Programs focus on agroforestry and renewable micro projects to generate livelihoods and promote environmental sustainability.

CSR Impact Evaluation Plan

A comprehensive CSR Impact Evaluation and Implementation Plan guides strategic community engagement and long-term benefits.



SCG VALUE PROPOSITION



WHY CHOOSE SHIVA CONSULTANCY GROUP (SCG)

Integrated Consultancy Expertise

SCG offers expertise in environmental, financial, and techno-legal areas with over 15 years in mining sustainability.

Advanced Technology Use

Utilizing GIS and Remote Sensing technology enables SCG to provide precise, data-driven environmental assessments.

Regulatory Relationships

Strong ties with MoEF&CC, CPCB, and PSUs help SCG facilitate smoother compliance for clients.

Carbon Sequestration Expertise

SCG has conducted carbon sequestration studies over 5000 hectares, showing commitment to environmental stewardship.

