

Business Responsibility Report

About this report

The Securities and Exchange Board of India (SEBI) as per its Listing Obligations and Disclosure Requirements Regulations, 2015 has mandated the inclusion of a "Business Responsibility Report" (BRR) as a part of the Company's Annual Report for top 500 listed entities based on market capitalization at the BSE Limited (BSE) and the National Stock Exchange of India Limited (NSE). The reporting framework is based on the 'National Voluntary Guidelines on Social, Environmental and Economic Responsibilities of Business (NVEGs)' released by the Ministry of Corporate Affairs, Government of India, in July 2011, which contains 9 Principles and Core Elements for each of the those 9 Principles. Following is the Second Business Responsibility Report of HEG Limited which is based on the format suggested by the SEBI.

Section A: General Information About The Company

- 1) Corporate Identity Number (CIN) of the Company : L23109MP1972PLC008290
- 2) Name of the Company: HEG Limited
- 3) Registered address : Mandideep (Near Bhopal), Distt. Raisen – 462 046, Madhya Pradesh
- 4) Website : www.hegltd.com
- 5) E-mail id : heg.investor@lnjbhilwara.com
- 6) Financial Year reported : 2018-19
- 7) Sector(s) that the Company is engaged in (industrial activity code-wise) – Graphite Electrode (NIC Code 329)
- 8) List three key products/services that the Company manufactures/provides (as in Balance Sheet) - Graphite Electrodes & Power
- 9) Total number of locations where business activity is undertaken by the Company
 - a) Number of International Locations (provide details of major 5) - Nil
 - b) Number of National Locations – 02
- 10) Markets served by the Company – Local/State/National/International
India, USA, Europe, Korea, Saudi Arabia, Turkey, Egypt, UAE, South Africa.

Section B: Financial Details Of The Company

- 1) Paid up Capital (INR) : 38.60 Crores

- 2) Total Turnover (INR) : 6592.83 Crores
- 3) Total Profit after Taxes (INR) : 3050.43 Crores
- 4) Total spending on Corporate Social Responsibility (CSR) as percentage of profit after tax (%) - Please refer to Annexure VI of the Board's Report.
- 5) List of activities in which expenditure in 4 above has been incurred:-

Please refer to Annexure VI of Annual Report.

Section C: Other Details

1. Does the Company have any Subsidiary Company/Companies? – No.
2. Do the Subsidiary Company/Companies participate in the BR Initiatives of the parent company? If yes, then indicate the number of such subsidiary company(s) : NA
3. Do any other entity/entities (e.g. suppliers, distributors etc.) that the Company does business with, participate in the BR Initiatives of the Company? If yes, then indicate the percentage of such entity/entities? [Less than 30%, 30-60%, More than 60%] : No

Section D: BR Information

1. Details of Director/Directors responsible for BR

- a) Details of the Director responsible for implementation of the BR policy/policies
 - i) DIN : 00060972
 - ii) Name : Shri Ravi Jhunjunwala
 - iii) Designation : Chairman, Managing Director & CEO
- b) Details of the BR head :

No.	Particulars	Details
1.	DIN Number (if applicable)	NA
2.	Name	Manish Gulati*
3.	Designation	Chief Operating Officer & Chief Marketing Officer
4.	Telephone number	07480-405500, 233524 to 233527
5.	e-mail id	Manish.gulati@lnjbhilwara.com

* Late Shri Raju Rustogi, Chief Financial Officer and Chief Operating Officer was BR head upto 26th Janury 2019.

2. Principle-wise (as per NVGs) BR Policy/Policies

a) Details of compliance (Reply in Y/N)

No.	Questions	Principle 1	Principle 2	Principle 3	Principle 4	Principle 5	Principle 6	Principle 7	Principle 8	Principle 9
		Ethics, transparency & accountability	Sustainability throughout the life-cycle of the product	Employee well-being	Responsive towards stakeholders	Promotion of human rights	Environmental protection	Responsible public policy advocacy	Inclusive growth & equitable development	Customer value
1	Do you have a policy/policies for	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
2	Has the policy being formulated in consultation with the relevant stakeholders?	Yes	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes
3	Does the policy conform to any national / international standards? If yes, specify? (50 words)	NA	Yes NEMA Standards are followed	Yes, OHSAS 18001	NA	NA	Yes, ISO 14001, ISO 9001	NA	NA	NA
4	Has the policy being approved by the Board? Is yes, has it been signed by MD/ Owner/ CEO/ appropriate Board Director?	Yes	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes
5	Does the company have a specified committee of the Board/ Director/ Official to oversee the implementation of the policy?	Yes	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes
6	Indicate the link for the policy to be viewed online#	1. Code of Conduct 2. Whistle Blower Policy 3. Code of Fair Disclosure of Unpublished Price Sensitive Information. (UPSI). 4. Policy on Related Party Transaction 5. Policy on Disclosure on Material Events and Information 6. Policy for dealing with any leak in UPSI and Whistle Blower Policy for Employee to report any leak or suspected leak of UPSI.		1 Code of Conduct 2. Whistle Blower Policy 3. Prevention, Prohibition and Redressal against Sexual Harassment of Women Employees	1. Whistle Blower Policy 2. Prevention, Prohibition and Redressal against Sexual Harassment of Women Employees 3. Dividend Distribution Policy 4. Shareholder / Investor Services	1. Whistle Blower Policy 2. Prevention, Prohibition and Redressal against Sexual Harassment of Women Employees	1. Quality Policy 2. Safety Policy 3. Environment Policy		1. CSR Policy	1. Quality Policy 2. Shareholders / Investors Services

No.	Questions	Principle 1	Principle 2	Principle 3	Principle 4	Principle 5	Principle 6	Principle 7	Principle 8	Principle 9
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7	Has the policy been formally communicated to all the relevant internal and external stakeholders?	Yes	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes
8	Does the company have in-house structure to implement the policy/ policies.	Yes	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes
9	Does the Company have a grievance redressal mechanism related to the policy/ policies to address stakeholders' grievances related to the policy/ policies?	Yes	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes
10	Has the company carried out independent audit/ evaluation of the working of this policy by an internal or external agency?	No	No	Yes, OHSAS 18001 Certification	No	No	Yes, ISO 14001 Certification ISO 9001	NA	No	No
The COO & CMO and Internal Audit Department monitor policy implementation and progress on initiatives and actions through periodic reviews.										

# Link for Policies	CODE OF CONDUCT FOR DIRECTORS AND SENIOR MANAGEMENT http://hegltd.com/wp-content/uploads/2017/02/CODE_OF_CONDUCT_HEG_05-02-2015.pdf
	CODE OF PRACTICES AND PROCEDURES FOR FAIR DISCLOSURE OF UNPUBLISHED PRICE SENSITIVE INFORMATION http://hegltd.com/wp-content/uploads/2019/04/Code-of-Fair-Discloures-and-Conduct-final1-1.pdf
	DIVIDEND DISTRIBUTION POLICY http://hegltd.com/wp-content/uploads/2018/04/Dividend-Distribution-Policy.pdf
	WHISTLE BLOWER POLICY http://hegltd.com/wp-content/uploads/2018/07/Whistle-Blower-Policy-08.05.2018.pdf

	POLICY ON RELATED PARTY TRANSACTIONS
	http://hegltd.com/wp-content/uploads/2018/12/Related-Party-Transaction-31-10-2018.pdf
	POLICY FOR DETERMINATION OF MATERIALITY OF EVENTS/INFORMATION AND DISCLOSURE TO STOCK EXCHANGES.
	http://hegltd.com/wp-content/uploads/2019/05/Policy-on-Determination-Materiality-of-Events12022019.pdf
	QUALITY AND SAFETY POLICY
	http://hegltd.com/quality-safety-policy/
	PREVENTION, PROHIBITION AND REDRESSAL AGAINST SEXUAL HARASSMENT OF WOMEN EMPLOYEES
	http://hegltd.com/wp-content/uploads/2018/06/Policy-on-Prevention-of-Sexual-Harassment-at-Workplace.pdf
	SHAREHOLDER / INVESTOR SERVICES
	http://hegltd.com/#

b) If answer to the question at serial number 1 against any principle, is 'No', please explain why: (Tick up to 2 options)

No.	Questions	Principle 7: Responsible public policy advocacy
1	The Company has not understood the Principles	-
2	The Company is not at a stage where it finds itself in a position to formulate and implement the policies on specified principles	-
3	The Company does not have financial or manpower resources available for the task	-
4	It is planned to be done within next 6 months	-
5	It is planned to be done within the next 1 year	-
6	Any other reason (please specify)	HEG is member of various Industrial and Trade Bodies and is part of task forces and forums within these bodies. We actively participate in these forums on issues and policy matters that impact the interest of our stakeholders. We prefer to be part of the broader policy development process and do not practice lobbying on any specific issue and hence do not feel such a policy is necessary given our way of doing business.

3. Governance related to BR

(a) Indicate the frequency with which the Board of Directors, Committee of the Board or CEO to assess the BR performance of the Company. Within 3 months, 3-6 months, Annually, More than 1 year :	We have constituted a Corporate Social Responsibility (CSR) Committee of the Board which oversees our CSR strategy and progress. For more details on the frequency of the Committee's meetings, refer to the 'Corporate Social Responsibility Committee' sub-section in the Corporate Governance Report, and the 'Corporate Governance' section in the Board's Report, which are part of this Annual Report. The CSR Committee meets every quarter.
(b) Does the Company publish a BR or a Sustainability Report? What is the hyperlink for viewing this report? How frequently it is published?	This is the Second Business Responsibility Report and is published annually as part of the Annual Report. Previous report can be assessed at http://hegltd.com/wp-content/uploads/2019/06/BRR-2017-18.pdf

Section E: Principle-Wise Performance

Principle 1

Business should conduct and govern themselves with Ethics, Transparency and Accountability

<p>1. Does the policy relating to ethics, bribery and corruption cover only the Company? Yes/ No. Does it extend to the Group/Joint Ventures/Suppliers/Contractors/NGOs /Others?</p>	<p>The Company's philosophy on Corporate Governance envisages the attainment of the highest levels of transparency, accountability and equity, in all facets of its operations, and all its interactions with the stakeholders including shareholders, employees, customers, government, suppliers and lenders and to build the confidence of the society in general. The Company believes in adopting the philosophy of professionalism, transparency and accountability in all areas and is committed to pursue growth by adhering to the highest national and international standards of Corporate Governance.</p> <p>http://hegltd.com/various-policies/</p>
<p>2. How many stakeholder complaints have been received in the past financial year and what percentage was satisfactorily resolved by the management? If so, provide details thereof, in about 50 words or so.</p>	<p>HEG's stakeholders include our investors, clients, employees, vendors/partners, government and local communities. The Company responds to the complaints in efficient and effective manner and efforts are in place to satisfactorily resolve them. For details on investor complaints, refer to Corporate Governance Report section in the Annual Report.</p>

Principle 2

Businesses should provide goods and services that are safe and contribute to sustainability throughout their life cycle.

1. List up to 3 of your products or services whose design has incorporated social or environmental concerns, risks and/or opportunities.

(a) Graphite Electrodes

(b) Graphite Fines, Flakes and Lumps

Refer to Schedule - I of Business Responsibility Report.

2. For each such product, provide the following details in respect of resource use (energy, water, raw material etc.) per unit of product (optional):

(a) Reduction during sourcing/production/distribution achieved since the previous year throughout the value chain?

(b) Reduction during usage by consumers (energy, water) has been achieved since the previous year?

3. Does the Company have procedures in place for sustainable sourcing (including transportation)?

Yes.

(a) If yes, what percentage of your inputs was sourced sustainably? Also, provide details thereof, in about 50 words or so.

Our source of needle coke has always been imports and from manufacturers, which are oil refineries. Fuel supplies are all from Indian oil refineries. Other input materials like pitch and fillers are sourced from Indian manufacturers, which are common for both graphite and aluminium industry. Sourcing from both domestic and import sources has been

consistent since last 36 years.

For inward and outward transportation, we are using both sea ways, railways and road transport sources. For import and export items, major part of the journey is covered using sea and rail transport, whereas for domestic supplies, we are relying more on road transportation, for door to door delivery commitments.

4. Has the company taken any steps to procure goods and services from local & small producers, including communities surrounding their place of work?

Yes.

(a) If yes, what steps have been taken to improve their capacity and capability of local and small vendors?

Indian government came up with the MSMED Act in the year 2006 to protect the interest of Micro, Small and Medium Enterprises (MSME) in India. During the year 2018-19, the Company also got itself registered at Treds Platform of Receivables Exchange of India Ltd. under membership code:HE0001004.

Towards supporting this cause of the government and community at large, the list of MSME used for sourcing/job contracting were 113 vendors in 2018-19 which included 67 new vendors added to the list of MSME and that their interests are adequately taken care off.

5. Does the Company have a mechanism to recycle products and waste? If yes, what is the percentage of recycling of products and waste (separately as <5%, 5-10%, >10%). Also, provide details thereof, in about 50 words or so

Yes, 100% of the waste generated after the first process

(GEP) is reusable and is a part of our SOP. Our By-Products like Graphite Fines are not only re-used in making of Graphite Electrode and Graphite Speciality Products, but are also sold to the steel industry (as carburizer) as well as to the lithium Iron battery makers (for anode material). We sell these By-Products to the actual users.

The structural steel scrap is re-melted into steel globally and hence is fully recyclable, thus reducing the mining of natural resources from the earth.

Principle 3

Businesses should promote the well-being of all employees

1. Please indicate the total number of employees: Total employees strength stood at 900 as on 31st March, 2019.
2. Please indicate the total number of employees hired on temporary/ contractual/ casual basis: 815 Nos.
3. Please indicate the number of permanent women employees: 17 Nos.
4. Please indicate the number of permanent employees with disabilities : 1 No.
5. Do you have an employee association that is recognized by management : Yes, 3 Nos.
6. What percentage of your permanent employees is members of this recognized employee association? 74% (24% in BMS, 32% in INTUC-1, 18% in INTUC-2)
7. Please indicate the number of complaints relating to child labour, forced labour, involuntary labour, sexual harassment in the last financial year and pending, as on the end of the financial year.

No.	Category	No of complaints filed during the financial year	No. of complaints pending as on end of the financial year
1	Child labour/ forced labour/ involuntary labour	Nil	Nil
2	Sexual harassment	Nil	Nil
3	Discriminatory employment	Nil	Nil

The Company had undertaken five Workshops/Awareness programs for prevention against Sexual Harassment at Workplace. The Company has an Internal Complaint Committee(ICC) to deal with complaints related to Sexual Harassment.

8. What percentage of your under mentioned employees were given safety & skill upgradation training in the last year?

(a) Permanent Employees : 94%

(b) Permanent Women Employees : 100%

(c) Casual/Temporary/Contractual Employees : 100%

(d) Employees with Disabilities : 100%

Principle 4

Business should respect the interests of and be responsive towards all stakeholders, especially those who are disadvantaged, vulnerable and marginalized.

1. Has the Company mapped its internal and external stakeholders?

Yes, the Company has mapped its internal and external stakeholders. We recognise employees, communities surrounding our operations, bankers, business associates, customers, shareholders, investors and regulatory authorities as our key stakeholders.

2. Out of the above, has the Company identified the disadvantaged, vulnerable & marginalized stakeholders.

Yes, the Company identifies communities around our manufacturing facilities at Mandideep, Bhopal and Tawa Nagar.

3. Are there any special initiatives taken by the Company to engage with the disadvantaged, vulnerable and marginalized stakeholders. If so, provide details thereof, in about 50 words or so.

The initiatives taken in this regard are as under:

- Provided safe and law-abiding commuting facilities to children and teachers
- Continued to subsidize the annual school fees for more than 200 BPL category students
- Introduced a new scholarship program for children of below poverty line wherein the Company will ensure admission of 10 students every year to professional colleges and provide financial assistance to transform their career dream into reality
- Provided quality education, through its school, to children of artisans working in Mandideep industrial area
- Conducted a computer training at Tawa Nagar to provide basic education to 100 to 120 local underprivileged students through Datanuts Private Ltd., Bhopal and completed two batches.

Principle 5

Businesses should respect and promote human rights

1. Does the policy of the Company on human rights cover only the Company or extend to the Group/Joint Ventures / Suppliers / Contractors / NGOs / Others?

Yes, only to the Company.

2. How many stakeholder complaints have been received in the past financial year and what percent was satisfactorily resolved by the management?

We have various grievance redressal channels to deal with issues related to discrimination, retaliation and harassment. The complainants are assured of complete anonymity and confidentiality.

No complaint was received pertaining to Human Rights Violations during the year.

Principle 6

Business should respect, protect and make efforts to restore the environment

1. Does the policy related to Principle 6 cover only the Company or extends to the Group/Joint Ventures / Suppliers / Contractors / NGOs / others

Only to the Company.

2. Does the Company have strategies/ initiatives to address global environmental issues such as climate change, global warming, etc? Y/N. If yes, please give hyperlink for webpage etc.

No, however we have calculated overall GHG emissions and have taken initiatives like solar power project, LNG use, LED lighting, tree plantations apart from operation and maintenance of air and water pollution control devices across the plant, like Effluent Treatment Plant, Electrostatic Tar Precipitators, Electrostatic Precipitators, Dust Collection units, Foggers, Road Sweeper, Organic Waste Converter etc.

3. Does the Company identify and assess potential environmental risks? Y/N

Yes, Environment Aspect Impact Assessment study is done and reviewed regularly as a part of ISO 14001:2015 standard.

4. Does the Company have any project related to Clean Development Mechanism? If so, provide details thereof, in about 50 words or so. Also, if Yes, whether any environmental compliance report is filed?

No

5. Has the Company undertaken any other initiatives on – clean technology, energy efficiency, renewable energy, etc. Y/N. If yes, please give hyperlink for web page etc.

Refer point No. 2 above.

6. Are the Emissions/Waste generated by the Company within the permissible limits given by CPCB/SPCB for the financial year being reported?

Yes, it is within the permissible norms.

7. Number of showcause/legal notices received from CPCB/ SPCB which are pending (i.e. not resolved to satisfaction) as on end of Financial Year.

Nil

Principle 7

Businesses, when engaged in influencing public and regulatory policy should do so in a responsible manner.

1. Is your Company a member of any trade and chamber or association? If Yes, name only those major ones that your business deals with:

(a) FIEO

(b) CAPEXIL

(c) PHD Chamber of Commerce & Industry

(d) FICCI

2. Have you advocated/lobbied through above associations for the advancement or improvement of public good? Y/N if yes, specify the broad areas (drop box: Governance and Administration, Economic Reforms, Inclusive Development Policies, Energy Security, Water, Food Security, Sustainable Business Principles, Others) :

HEG is a member of various industrial and trade bodies and is a part of task forces and forums within these bodies. We actively participate in these forums on issues and policy matters that impact the interest of our stakeholders. We prefer to be a part of the broader policy development process and do not practice lobbying on any specific issue and hence do not feel such a policy is necessary given our way of doing business.

Principle 8

Business should support inclusive growth and equitable development

1. Does the Company have specified programmes/initiatives/ projects in pursuit of the policy related to Principle 8? If Yes, details thereof.

Yes, the Company supports the principles of inclusive growth and equitable development through not just its Corporate Social Responsibility initiatives but through its core business as well.

The Company's social upliftment initiatives focus around healthcare, education, removing hunger, working for the benefit of armed forces veterans and martyrs' community development and environmental conservation, which facilitates in bettering lives and improving livelihood, amongst others.

Some of the initiatives are as follows:

a) Healthcare

- Provided medical consultation to general public at the OPD Centre in Mandideep and Tawanagar and distributed free medicines among BPL category patients
- Conducted medical health camps and distributing medicines in villages and to economically weaker sections, in collaboration with Sewa Bharti, Bhopal

b) Community Development

- The Company is working on the programme of mid-day meal through Akshaya Patra.
- Associated itself with an organisation providing free and hygienic food to the attendants of the patients visiting AIIMS, Delhi.
- Aspires to work with the local government for creating infrastructure for Government School upgradation and safe drinking water etc.

c) Education

- Provided safe and law-abiding commuting facilities to children and teachers.
- Continued to subsidize the annual school fees for more than 200 BPL category students.
- Introduced a new scholarship program for children of below poverty line wherein the Company will ensure admission of 10 students every year to professional colleges and provide financial assistance to transform their career dream into reality
- Provided quality education, through its school, in Mandideep area and also to children of artisans working in Mandideep industrial area.
- conducted a computer training at Tawa Nagar to provide basic computer education to 100 to 120 local underprivileged students through Data Nuts Private Ltd., Bhopal and had completed two batches.
- Supporting meritorious but financially weaker/poor students (who are having annual family income less than ₹2.0 lakh) by way of providing professional coaching in Bhopal for science and commerce students to help them to prepare for their competitive examinations.
- Help in education of physically disabled students.
- Promotion of sports in the school .

d) Environmental Conservation

- Conducted an afforestation drive by planting more than 4000 plants at Tawa Nagar area in coordination with local government bodies along the NH-69 to combat air pollution.

- Planted 100+ grown up trees inside HEG's plant, both for environmental reasons as well as aesthetic look and working for plantation of more than 300 plants along the boundaries of HEG Limited.
- Contribution to Clean India Mission.

e) Financial Assistance

- In 2018-19, the Company, through its implementing agency, made financial contribution to third party trusts, who are engaged in synergic activity relating to eradicating hunger, poverty & malnutrition, protection of national heritage, art & culture/language and measures for the benefit of armed forces, veterans, war widows, and their dependents.

- Are the programmes/projects undertaken through in-house team/ own foundation/ external NGO/ government structures/any other organization?

The Company has been conducting these activities directly and through a dedicated trust - LNJ Bhilwara HEG Lok Nyas.

- Have you done any impact assessment of your initiative?

Yes, the Company internally performs an impact assessment of its initiatives at the end of each year to understand the efficacy of the programme in terms of delivery of desired benefits to the community and to gain insights for improving the design and delivery of future initiatives.

- What is your Company's direct contribution to community development projects- Amount in INR and the details of the projects undertaken.

Refer to Annexure VI of the Board Report.

- Have you taken steps to ensure that this community development initiative is successfully adopted by the community? Please explain in 50 words, or so.

Yes, at HEG all of our businesses and manufacturing units at Mandideep and Tawa Nagar are continuously engaged with communities surrounding their operations through surveys and focused meetings. This is done to gauge the needs, priorities and expectations of the local community. Initiatives are thus designed and delivered in a transparent manner in line with inputs from the community itself.

Principle 9

Businesses should engage with and provide value to their customers and consumers in a responsible manner

1. What percentage of customer complaints/consumer cases are pending as on the end of the financial year.
4% of total complaints are in the process to be resolved.
2. Does the Company display product information on the

product label, over and above what is mandated as per local laws? Yes/No/N.A.

Yes, we display additional information over and above the mandate.

3. Is there any case filed by any stakeholder against the Company regarding unfair trade practices, irresponsible advertising and/or anti-competitive behaviour during the

last five years and pending as on end of financial year. If so, provide details thereof, in about 50 words or so.

No.

4. Did your Company carry out any consumer survey/ consumer satisfaction trends?

Yes, the Company collects customer satisfaction feedback on regular basis.

Schedule - I

Hazards identification

Hazards summary

Physical hazards - Not classified for physical hazards

Specific hazards - May get cut from the sharp edge of the electrode (socket circumference). If any part of the body gets pressed against the sharp edge of the electrode, injury may occur.

Precautionary Measures:

- Use proper hand gloves while handling
- Floor of the storage area must be anti-skid

Health hazards - Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

Environmental hazards - Not classified for hazards to the environment.

Specific hazards -

Processing may generate graphite dusts and fumes with the below listed potential health effects. Dust and fumes generated from the material can enter the body by inhalation. High concentrations of dust and fumes may irritate the throat and respiratory system and cause coughing. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Dust may cause irritation in the eyes along with skin problems. Ingestion of dust generated during working operations may cause nausea and vomiting. Prolonged and repeated overexposure to dust can lead to pneumoconiosis. Pre-existing pulmonary disorders, such as emphysema, may possibly be aggravated by prolonged exposure to high concentrations of graphite dusts.

Main symptoms - Exposed may experience eye tearing, redness, and discomfort. Prolonged skin contact may cause temporary irritation.

Precautionary statements

Prevention - Observe good industrial hygiene practices.

Response - Wash skin with soap and water

Storage - Store away from incompatible materials

Disposal - Dispose off contents/container in accordance with local / regional / national / international regulations

Supplemental label information - Not applicable

Other hazards - The material may form dust and can accumulate electrostatic charges, which may cause an electrical spark (ignition source).

Individual protection measures, such as personal protective equipment

General information - Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Make sure to provide adequate control by applying the 'COSHH Essentials' procedure.

Eye/Face protection - Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection - Wear suitable protective gloves to prevent cuts and abrasions. Suitable gloves can be recommended by the glove supplier.

Other - Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection - Use specified dust masks. Seek advice from local supervisor.

Thermal hazards - Wear appropriate thermal protective clothing, when necessary.

Hygiene measures - Always observe good personal hygiene measures, such as washing habits after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls - Environmental manager must be informed of all significant spillages.

Environmental fate - partition coefficient - Not available

Mobility in soil - Not available

Results of PBT and vPvB assessment - Not available

Other adverse effects - The product is not expected to be hazardous to the environment.

Ecological information

Waste treatment methods

Residual waste - No waste

Contaminated packaging - Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Recover and reclaim or recycle, if practical.

Transport information

ADR

The product is not covered by the International Regulations on the transport of dangerous goods.

Product Life Cycle Plan					
Sl. No.	Contents in crate	Material	Nature of product	Action -1	Action -2
1	Graphite Electrode	Pure Carbon	100 % Consumable during use	Unpack the Electrodes with Nipple and keep all the packing items well segregated	Remachine & use if possible / Reuse the broken pieces in process to maintain carbon percentage
2	Graphite Nipple	Pure Carbon	100 % Consumable during use		Handover only to authorised recyclers
3	Thermocol Cap	Expanded Polysterene	Recyclable		Handover only to authorised recyclers
4	Thermocol Plug	Expanded Polysterene	Recyclable		Handover to recyclers/ use as input to EAF
5	Steel Strip	Zinc Coated Steel	Recyclable		Handover to recyclers/ use as input to EAF
6	Steel Clip	Zinc Coated Steel	Recyclable		Handover to recyclers/ use as input to EAF
7	Steel Nails	Zinc Coated Steel	Recyclable		Handover to recyclers
8	Wood / Ply Board	Cellulose Composite	Recyclable / Reusable		Handover only to authorised recyclers
9	Wrap Film	LDPE, Low Density Poly Ethylene	Recyclable		Handover only to authorised recyclers
10	Metwrapp (Polypropylene)	Corrugated PP, Poly Propylene	Recyclable / Reusable		Handover only to authorised recyclers