



IOP SPECIALISTS SDN BHD

(572044-X)

COMPANY PROFILE

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ABOUT US

IOP Specialists Sdn. Bhd. is a high-technological company specializing in the production of premium synthetic iron oxide pigments, engineered to meet regional industrial demands. With a strong focus on quality and innovation, we manufacture high purity Hi-Bi grade pigments using advanced ceramic heat treatment.

Our Hi-Bi pigments are thoroughly tested in both laboratory and industrial environments, ensuring reliable performance across a wide range of applications. These include paints and coatings, ceramics, plastics, construction materials such as paver bricks and tiles, porcelain enamels, glazes, glass, and printing toners.

Selected grades such as the Hi-Bi R300, R300m, BL318, and BL3Zm are specifically engineered for high temperature applications, making them ideal for use in porcelain wares and glazed tiles. Other Hi-Bi grades are designed for ambient temperature processing and feature excellent resistance to weathering and minimal colour changes over time.

Additionally, the Hi-Bi BL318 serves as our signature black pigment that functions as a superfine magnetite powder, suitable for electronic and magnetic industry applications.

Beyond our core expertise in manufacturing high purity iron oxide pigments, IOP Specialists Sdn Bhd also plays a key role in advancing sustainable environmental solutions. With over a decade of experience, we provide a comprehensive range of waste management services, including the treatment, recycling, recovery, and safe disposal of scheduled waste.

Leveraging innovation and advanced technology, we transform waste into valuable resources. Through our recovery processes, scheduled wastes are treated using environmentally responsible and cost effective methods, then further refined and formulated into industrial products with meaningful commercial values. Our goal is to align with the government's effort to transition from a conventional 'cradle-to-grave' disposal to a more sustainable 'cradle-to-cradle' model, in line with the 4R principles (Reduce, Reuse, Recover, and Recycle).

As the saying goes, "We Don't Own The Earth, We Just Borrowed It From Our Children." With the relentless industrialization of our society, we realized that we are exhausting our natural resources, particularly the crude oil, in our daily lives. Thus, our recovery efforts focus particularly on inorganic materials, many of which are non-renewable. By reclaiming and reprocessing these resources, we reduce environmental impact while contributing to long-term sustainability.

At IOP Specialists, we recognise that waste management is not only an environmental responsibility, but also a social-economic one. Our treatment processes convert wastes into non-hazardous, reusable forms to create value while maintaining the highest standards of health, safety, environmental compliance, and quality.

OUR VISION

Connecting the industrial community through excellent service for cleaner product and greener environment.

OUR MISSION

1. Improve company's profitability and its environment performance
2. Good operating and housekeeping practices
3. Incorporating environmental concern in delivering services
4. Improve human health and public image
5. To enhance customer service and compliance
6. Providing cost-effective and customized solutions
7. Sustainable business models
8. To provide technical support to enhance everyday use

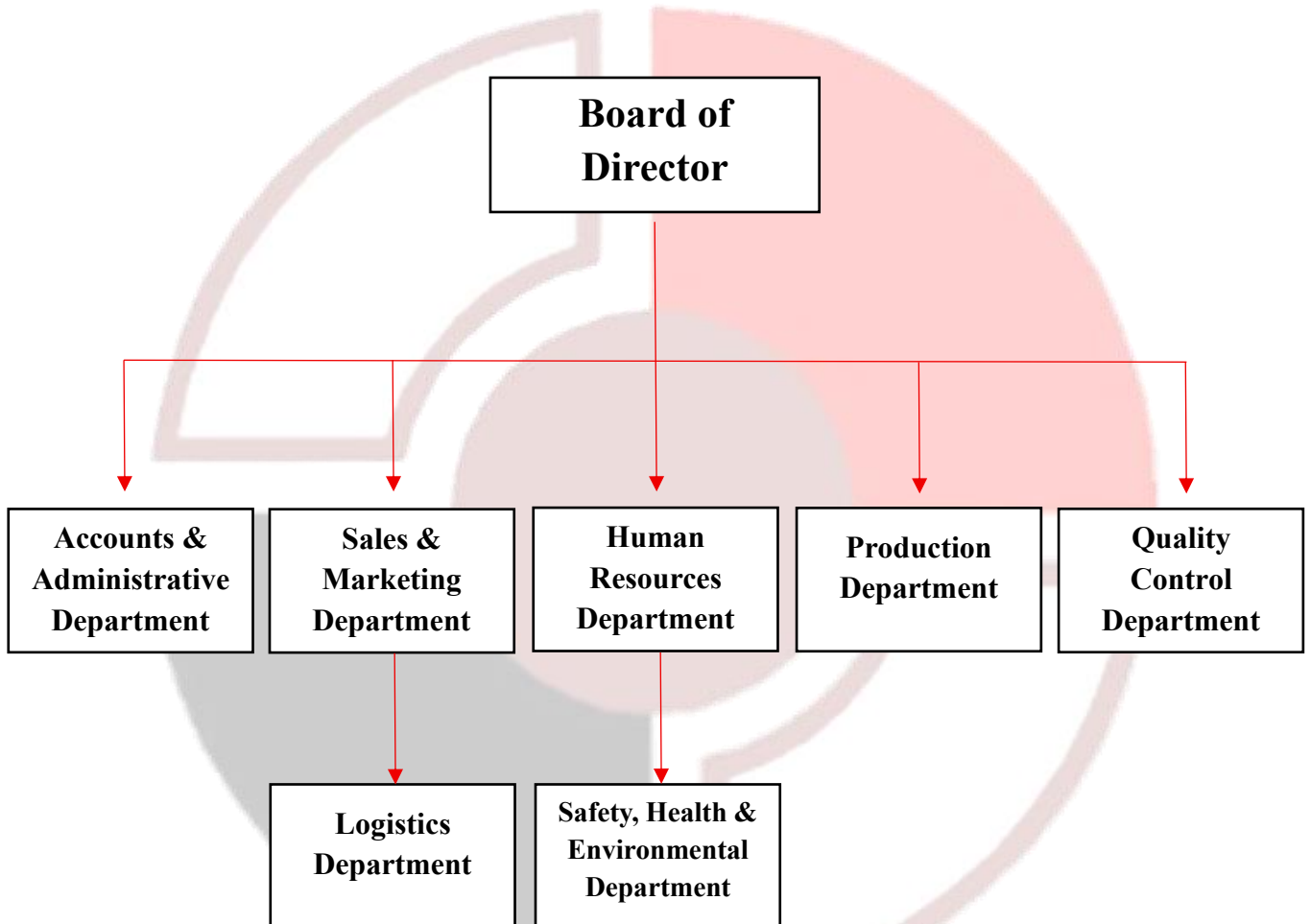
ENVIRONMENTAL POLICY

As a prescribed premises company, we are committed to continuously enhancing our waste management processes and practices to improve environmental performance and minimize pollution impact of industrial waste.

We are committed to abiding with the Malaysian environmental laws, regulations and other requirements applicable to our operations set by the Department of Environment (DOE).

1. Have environmental management programs to achieve our objectives and target.
2. Communicate this policy to all employees and interested parties.
3. Prevent environmental pollution with the best available resources to conserve natural resources.
4. Provide environmental training and awareness to our employee and to persons working under our control.
5. Include environmental factors in our business making processes.
6. Provide the framework for setting and reviewing environmental objectives and targets.

ORGANISATION CHART



OUR PRODUCTS & SERVICES

- 1) IRON OXIDE & CARBON BLACK PIGMENTS
 - 2) SCHEDULED WASTE RECOVERY – SW104, SW108, SW202, SW204
 - 3) MILLSCALE, IRON DUST, IRON POWDER
 - 4) SPONGE IRON & FERRO ALLOY
 - 5) SCRAP METALS
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IRON OXIDE & CARBON BLACK PIGMENTS



Reduction 1:5
Not Applicable

Hi-Bi R3Z
Red Iron Oxide



Reduction 1:5
Not Applicable

Hi-Bi BL3Z
Black Iron Oxide



Reduction 1:5
Not Applicable

Hi-Bi R3Zm
Red Iron Oxide



Reduction 1:5

Hi-Bi BL3Zm
Black Iron Oxide



Reduction 1:5

Hi-Bi R300
Red Iron Oxide



Reduction 1:5

Hi-Bi BL505
Black Iron Oxide



Reduction 1:5

Hi-Bi R300m
Red Iron Oxide



Reduction 1:5

Hi-Bi 355a
Black Iron Oxide



Reduction 1:5

Hi-Bi BR300
Brown Iron Oxide



Reduction 1:5

Hi-Bi BL318
Black Iron Oxide



Reduction 1:5

Hi-Bi BR505a
Brown Iron Oxide



Reduction 1:5

Hi-Bi BLC1
Carbon Black

TECHNICAL DATA SHEET

Hi-Bi	Grade	Fe ₂ O ₃ Content	Oil Absorption (ISO787/5g/100g)	Water-Soluble Salts (ISO787/8)	Lost on Ignition at 800°C	Pour Density (g/cm ³)	Particle Density (g/cm ³)	pH	Sieve Residue on 325 mesh	Colour Consistency (ΔE)	General Application
Red	R3Z	>99%	-	Max 1%	Max 1%	0.6 – 0.8	≈ 5.0	6 – 8	Coarse, 100 mesh only	<1.0	Pigment for high temperature processing products typically ceramics such as pottery waves, glazed tiles, etc.
	R3Zm	>99%	27 – 29	Max 1%	Max 1%	1.0 – 1.5	≈ 5.0	6 – 8	Max 0.5%	<1.0	Pigment for high temperature processing products typically ceramics such as pottery waves, glazed tiles, etc.
	R300	>96%	26 – 28	Max 1%	Max 1%	1.0 – 1.5	≈ 5.0	6 – 8	Max 0.5%	<1.0	Excellent ultra violet resistance pigment suitable for roofing tiles, paver bricks, paints, rubber, etc.
	R300m	>96%	23 – 25	Max 1%	Max 1%	1.0 – 1.5	≈ 5.0	6 – 8	Max 0.5%	<1.0	Excellent ultra violet resistance pigment suitable for roofing tiles, paver bricks, paints, rubber, etc.
Brown	BR300	>85%	26 – 28	Max 1%	-	0.8 – 1.3	≈ 4.5	6 – 8	Max 0.5%	<1.0	Excellent ultra violet resistance pigment suitable for roofing tiles, paver bricks, paints, rubber, etc.
	BR505a	>75%	26 – 28	Max 1%	-	0.6 – 1.1	≈ 4.0	6 – 8	Max 0.5%	<1.0	Excellent ultra violet resistance pigment suitable for roofing tiles, paver bricks, paints, rubber, etc.
Black	BL3Z	>99%	-	Max 1%	Max 1%	1.2 – 1.7	≈ 5.0	6 – 8	Coarse, 150 mesh only	<1.0	Pigment for high temperature processing products typically ceramics such as pottery waves, glazed tiles, etc.
	BL3Zm	>99%	22 – 24	Max 1%	Max 1%	1.2 – 1.7	≈ 5.0	6 – 8	Max 0.5%	<1.0	Pigment for high temperature processing products as well as for ambient temperature applications. It is also a super fine high purity magnetic powder.
	BL505	>92%	21 – 23	Max 1%	-	1 – 1.5	≈ 4.8	6 – 8	Max 0.5%	<1.0	Excellent ultra violet resistance pigment suitable for roofing tiles, paver bricks, paints, rubber, etc.
	BL355a	>75%	24 – 26	Max 1%	-	0.8 – 1.3	≈ 4.0	6 – 8	Max 0.5%	<1.0	Excellent ultra violet resistance pigment suitable for roofing tiles, paver bricks, paints, rubber, etc.
	BL318	>60%	27 – 29	Max 1%	-	0.5 – 1.0	≈ 3.5	6 – 8	Max 0.5%	<1.0	Excellent ultra violet resistance pigment suitable for roofing tiles, paver bricks, paints, rubber, etc.
Carbon Black	BLC1	>90% C	48 – 50	Max 1%	-	0.3 – 0.4	-	6 – 8	Ultra fine, 500 mesh only	<1.0	Carbon black for inks ad paints application.

SCHEDULED WASTE RECOVERY

IOP Specialists Sdn. Bhd. provides a comprehensive scheduled waste management framework to support our clients throughout the entire process. From collection and transportation to treatment and consultation, every stage is managed with strict adherence to regulatory requirements and industry best practices.

Recognizing that scheduled wastes are regulated under environmental legislation due to their potential risks, we ensure all handling processes are carried out safely, responsibly, and professionally.

Our structured approach ensures consistency, reliability, and quality in every outcome. All recovered products undergo stringent quality control measures, while our team remains committed to providing clear communication and responsive support to meet our clients' needs.

Our Recovery/Recycling Facilities

SW 104 – Dust, slag, dross or ash containing aluminium, arsenic, mercury, lead, cadmium, chromium, nickel, copper, vanadium, beryllium, antimony, tellurium, thallium, or selenium excluding slag from iron and steel factory.

SW 108 – Leaching residues from zinc processing in dust and sludges form.

SW 202 – Waste catalysts.

SW 204 – Sludges containing one or several metals including chromium, copper, nickel, zinc, lead, cadmium, aluminium, tin, vanadium, and beryllium.

MILL SCALE

IOP Specialists Sdn. Bhd. is a trusted supplier of high-quality mill scale in Malaysia, supporting a wide range of industrial applications. Sourced from reputable and established manufacturers, our mill scale is carefully selected to ensure consistency and reliability in performance.

Mill scale is a by-product generated during the hot rolling and processing of steel in metal extrusion industries. Rich in iron content, typically exceeding 70%, it serves as a valuable raw material for various industrial uses, including steel production, cement manufacturing, and other metallurgical processes.

IOP Specialists is also licensed by the Royal Malaysian Police to trade scrap metal, ensuring full compliance with regulatory requirements and reinforcing our commitment to responsible and transparent operations.



SCRAP METAL

IOP Specialists Sdn. Bhd. purchases a wide range of ferrous and non-ferrous metals from diverse sources, including the public, metal dealers, automotive dismantlers, demolition contractors, agricultural sectors, and industrial manufacturers. We handle both obsolete scrap metal and production related metal waste with efficiency and reliability.

In addition to procurement, we provide on-site services such as cutting, clearing, and collection of metal structures, including fencing, carports, cages, offcuts, and metal shavings, supporting various industries in their recycling needs.

For clients looking to sell or responsibly dispose of metal materials, our team offers professional assistance to ensure all metals are recycled or managed in an environmentally responsible and compliant manner. IOP Specialists Sdn. Bhd. is also licensed by the Royal Malaysian Police to conduct scrap metal trading and related operations, reinforcing our commitment to safe, transparent, and regulated practices.



ATTACHMENTS & SUPPORTING DOCUMENTS

Our Business Licenses

	License	Regulatory Authority
1	BORANG 9 AKTA SYARIKAT 1965	SURUHANJAYA SYARIKAT MALAYSIA
2	LESEN BUANGAN TERJADUAL SW104, SW108, SW204	JABATAN ALAM SEKITAR
3	LESEN PREMIS UNTUK KEMUDAHAN PEMEROLEHAN KEMBALI PENUH BUANGAN TERJADUAL SW104, SW108, SW204	JABATAN ALAM SEKITAR
4	LESEN UNTUK BERNIAGA BARANG-BARANG LUSUH	POLIS DIRAJA MALAYSIA
5	LESEN PERNIAGAAN	MAJLIS PERBANDARAN KLANG