



Compilation of Environmental Acts, Laws and Regulations Related to Construction Industry



CIDB
MALAYSIA

LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN Malaysia
Construction Industry Development Board Malaysia

Ibu Pejabat CIDB, Tingkat 7, Grand Seasons Avenue, No. 72, Jalan Pahang Kuala Lumpur.
P.O. Box. 12278, 50772 Kuala Lumpur. Tel: 603-2617 0200, Fax: 603-4045 2808

<http://www.cidb.gov.my>





Compilation of Environmental Acts, Laws and Regulations Related to Construction Industry

© CIDB Malaysia 2008
Construction Industry Development (CIDB) Malaysia
Level 8, Grand Seasons Avenue
No. 72, Jalan Pahang
53000 Kuala Lumpur

Tel: +603 2617 0360 / 396 / 358
Fax: +603 4045 1808

Perpustakaan Negara Malaysia Cataloguing-in-Publication

Compilation of Environmental Acts, Laws and Regulations Related to Construction Industry

ISBN 978-983-2724-74-2

PREAMBLE

Environmental issues are becoming areas of concern in construction industry. Construction activities are required to comply with all the Acts, Laws, as well as Regulations related to the Environment.

In order to complement the effort in improving environmental aspects in construction industry, CIDB has identified and compiled a list of Acts and Regulations related to the construction activities. This compilation is tabulated in a “friendly format”, which serves as useful references for contractors in obtaining ISO 14001 EMS certification.

This compilation however will be reviewed from time to time when necessary. Feedback and comments from users of this compilation are welcomed for future improvement.

No	Environmental Concerns	Description of Legislation	Legislation	Affected construction activities
1	Air Pollution			
1.1		<p>Prohibition on open burning</p> <p>No person shall allow or cause open burning on any premises</p>	EQA 1974	where open burning may be used to get rid of all unwanted materials
1.2		<p>Burning of trade waste in incinerator only</p> <p>No owner or occupier of industrial or trade premises shall burn or cause to be burnt combustible materials, refuse and produce or waste except in an incinerator of such type and design approved by DG</p>	EQ (Clean Air) Regulations 1978	
1.3		<p>Asphalt Concrete Plant.</p> <p>Every asphalt concrete plant and bituminous plant shall not emit or discharge dust or solid particles in excess of the following limits for stationary or mobile plant</p>	EQ (Clean Air) Regulations 1978	where asphalt / bituminous plant exist
1.4		<p>Portland Cement Plant.</p> <p>In any trade, industry or process where Portland cement is manufactured or in which cement clinker is ground or cement packed, the emission standards for any dust or solid particles shall not exceed the following standards</p>	EQ (Clean Air) Regulations 1978	cement plant

1.5		Facilities discharging asbestos and free silica	EQ (Clean Air) Regulations 1978	construction sites
		<p>For any trade, industry or process which emits or discharges dust or any solid particles containing asbestos or free silicas the concentration of air impurities shall not exceed the following</p> <p>* Standard A = 0.4gm/Nm³ * Standard B = 0.2gm/Nm³ * Standard C = 0.12 gm/Nm³</p>		
1.6		Erection etc of chimney	EQ (Clean Air) Regulations 1978	manufacture of construction related materials where chimney are installed
		<p>Any person intending to erect, install, resite or alter any chimney, from or through which air impurities may be emitted or discharged shall obtain prior written approval from the DG. This requirement shall not apply to a chimney serving a private residence</p>		
1.7		Smoke Emission Control of Motor Vehicle	EQ (Control of Emission from Diesel Engines) Regulations 1996	construction site
		<p>Apply to every motor vehicle irrespective of whether it is in use or stationary, or in any bus terminus, taxi stand or private premises or on any private road.</p>		
1.8		Gaseous Emission Control from Motor Vehicle	EQ (Control of Emission from Petrol Engines) Regulations 1996	construction site
		<p>Apply to every motor vehicle irrespective of whether it is in use or stationary, or in any bus terminus, taxi stand or private premises or on any private road.</p>		

1.9		Declared Activities	EQ (Declared Activities) (Opening Burning) Order 2003	at construction site
		Subject to paragraph 4, the following activities are declared not to be open burning as defined for the purpose of section 29A of the Act so long as such activity is carried out in accordance with the conditions specified		
2	Noise Pollution			
2.1		Restrictions on noise pollution	EQA 1974	construction site
		No person shall , unless licensed, emit or cause or permit to be emitted any noise greater in volume, intensity or quality in contravention of the acceptable conditions specified		
2.2		Noise as nuisance	Local Govt Act 1976	construction site
		nuisance liable to be dealt with		
3	Water Pollution			
3.1		Restrictions on pollution of inland waters	EQA 1974	construction site
		No person shall , unless licensed, discharge or spill any oil mixture containing oil into Malaysian waters in contravention of acceptable conditions specified		
3.2		Prohibition of discharge of wastes into Malaysian waters	EQA 1974	construction site
		No person shall , unless licensed, discharge environmentally hazardous substances, pollutants or wastes into Malaysian waters in contravention of acceptable conditions specified		

3.3		<p>Prohibition against placing, deposit, etc. of schedule wastes</p> <p>No person shall place, deposit or dispose of, except at prescribed premises only, any scheduled wastes on land or into Malaysian waters</p>	EQA 1974	construction site
3.4		<p>Prohibition against new and altered sources of effluent discharge</p> <p>No person shall carry out on any premises that may result in a new source of effluent discharge or cause a material change in quantity or quality of the discharge from an existing source or construct on any land any building designed or used for a purpose that may cause the land or building to result in a new source of effluent</p>	Environmental Quality (Sewage and Industrial Effluents) Regulations 1979	construction site
3.5		<p>Acceptable conditions of discharge into inland waters</p> <p>No person shall discharge or cause or permit the discharge of any of the following substances into any inland waters</p> <ol style="list-style-type: none"> 1) any inflammable solvent 2) any tar or other liquids immiscible with water 3) refuse, garbage, sawdust, timber, human or animal waste or solid matters 	Environmental Quality (Sewage and Industrial Effluents) Regulations 1979	construction site

3.6		<p>Duties of person using or handling highly toxic pesticide</p> <p>1) Any person who uses or causes to be used highly toxic pesticides shall</p> <ul style="list-style-type: none"> a) destroy & dispose of all empty pesticide containers in a manner as specified on the highly toxic pesticide's label b) comply with all instructions on the label on all containers of highly toxic pesticides, and c) ensure that no highly toxic pesticide be used in residential or recreational places <p>2) No person who uses or causes to be used any highly toxic pesticides at any place where there is a likelihood or risk of contaminating the water supplies.</p>	<p>Pesticides (Highly Toxic Pesticides) Regulations 1996</p>	<p>construction site / landscaping</p>
3.7		<p>New sources of discharge Prohibition against new and altered sources of effluent discharge</p> <p>No person shall without the prior written permission of the DG</p> <ul style="list-style-type: none"> i) carry out any work on any premises in the Kawasan Perbadanan Putrajaya that may result in a new source of effluent discharge or cause material change in the quantity or quality of the discharge from an existing source, or ii) construct on any land any building designed or used for a purpose that may cause the land or building to result in a new source of effluent discharge 	<p>Environmental Quality (Perbadanan Putrajaya) (Water Pollution Control) Regulations 1998</p>	<p>construction site</p>

3.8		<p>Acceptable conditions of discharge into inland waters Prohibition against discharge of effluent containing certain substances</p> <p>no person shall discharge or cause or permit the discharge of any of the following substances into the lake area or any inland waters within the Kawasan Perbadanan Putrajaya</p> <ul style="list-style-type: none"> i) any inflammable solvent or chemical ii) any oil or other liquids immiscible with water iii) any environmentally hazardous substances iv) refuse, garbage, saw-dust, timber, human or animal waste or solid matter 	<p>Environmental Quality (Perbadanan Putrajaya) (Water Pollution Control) Regulations 1998</p>	<p>construction site</p>
3.9		<p>Prohibition of discharge effluents</p> <ul style="list-style-type: none"> 1) No persons shall discharge or cause or permit the discharge of any effluent into the lake area without the prior written permission of the DG 2) No persons shall discharge or cause or permit the discharge of any household effluent into any roadside drains, pipes or channels that drain into the lake area. 3) all sewage and household effluent shall be directed to a sewage system 	<p>Environmental Quality (Perbadanan Putrajaya) (Water Pollution Control) Regulations 1998</p>	<p>construction site</p>

3.10		Transportation, storage or disposal of pesticides or pesticide containers	Pesticide (Pest Control Operator) Rules 2004	construction site / landscaping
		No person shall transport, store or dispose of any pesticide or pesticide containers in such a manner as to cause injury to humans, beneficial vegetation, crops, livestock, wildlife or beneficial insects, or to pollute the environment or any waterway In a way harmful to any wildlife in that environment or waterway,unless in accordance with the conditions as stipulated in the license and the rules of other relevant government agencies		
4	Soil Pollution			
4.1		Restrictions on pollution of the soil	EQA 1974	construction site
		No person shall, unless licensed, pollute or cause or permit to be polluted any soil or surface of any land in contravention of the acceptable conditions specified		
4.2		Siltation	Earthwork By-law 1996	construction site
		Requirement for silt traps and sediment control facilities		
4.3		Dust	Street, Drainage & Building Act, 1974	construction site
		Depositing of dirt on streets		

4.4		Discharge onto land Restrictions on the discharge of effluents and disposal of sludges	Environmental Quality (Perbadanan Putrajaya) (Water Pollution Control) Regulations 1998	Prior to project commencement
		No person shall discharge or cause or permit the discharge of any environmentally hazardous substances, effluent, any solid waste or sludge that is generated from any production or manufacturing processes or from any effluent treatment plant onto any soil or surface of any land within the Kawasan Perbadanan Putrajaya, that may allow it to flow or Leach into the lake area, without the prior written permission of the DG		Prior to project commencement
5	Impact on Environment			
5.1		Environmental Impact assessment required for the following :		
5.1.1		Airport	EQ (Prescribed Activities) (Environmental Impact Assessment) Order 1987	Prior to project commencement
		a) Construction of airports (having an airstrip of 2,500 metres or longer) b) Airstrip development in state and national parks		
5.1.2		Land Reclamation	EQ (Prescribed Activities) (Environmental Impact Assessment) Order 1987	Prior to project commencement
		Coastal reclamation involving an area of 50 hectares or more		
5.1.3		Housing		
		Housing development covering an area of 50 hectares or more		

5.1.4		<p>Infrastructure</p> <p>a) Construction of hospitals with outfall into beachfronts used for recreational purposes</p> <p>b) Industrial estate development for medium and heavy industries covering an area of 50 hectares or more</p> <p>c) Construction of expressways</p> <p>d) Construction of national highways</p> <p>e) Construction of new townships</p>	<p>EQ (Prescribed Activities) (Environmental Impact Assessment) Order 1987</p>	<p>Prior to project commencement</p>
5.1.5		<p>Ports</p> <p>a) Construction of ports</p> <p>b) Port expansion involving an increase of 50% or more in handling capacity per annum</p>	<p>EQ (Prescribed Activities) (Environmental Impact Assessment) Order 1987</p>	<p>Prior to project commencement</p>
5.1.6		<p>Petroleum</p> <p>a) Oil and gas field development</p> <p>b) Construction of off-shore and on-shore pipelines in excess of 50 km in length</p> <p>c) Construction of oil and gas separation, processing, handling and storage facilities</p> <p>d) Construction of oil refineries</p> <p>e) Construction of product depots for the storage of petrol, gas or diesel (excluding service stations) which are located within 3km of any commercial, industrial or residential areas and which have a combined storage capacity of 60,000 barrels or more</p>	<p>EQ (Prescribed Activities) (Environmental Impact Assessment) Order 1987</p>	<p>Prior to project commencement</p>

5.1.7		<p>Power Generation and Transmission</p> <p>a) Construction of steam generated power stations burning fossil fuels and having a capacity of more than 10 megawatts</p> <p>b) Dams and hydro-electric power schemes with either or both of the following :</p> <p>i) dam over 15 metres high and ancillary structures covering a total area in excess of 40 hectares</p> <p>ii) reservoirs with a surface area in excess of 400 hectares</p> <p>c) Construction of combined cycle power stations</p> <p>d) Construction of nuclear-fueled power station</p>	<p>EQ (Prescribed Activities) (Environmental Impact Assessment) Order 1987</p>	<p>Prior to project commencement</p>
5.1.8		<p>Quarries</p> <p>Proposed quarrying of aggregate, limestone, silics, quartzite, sandstone, marble and decorative building stone within 3km of any existing residential, commercial or industrial areas, or any area for which a licence, permit or approval has been granted for residential, commercial or industrial development</p>	<p>EQ (Prescribed Activities) (Environmental Impact Assessment) Order 1987</p>	<p>Prior to project commencement</p>
		<p>Transportation</p> <p>Construction of Mass Rapid Transport projects</p>	<p>Environmental Quality (Scheduled Wastes) Regulations 2005</p>	<p>Prior to project commencement</p>

		<p>Resort and Recreational Development</p> <p>a) Construction of coastal resort facilities or hotel with more than 80 rooms</p> <p>b) Hill station resort or hotel development covering an area of 50 hectares or more</p> <p>c) Development of tourist or recreational facilities in national parks</p> <p>d) Development of tourist or recreational facilities on islands in surrounding waters which are gazetted as national marine parks</p>	<p>EQ (Prescribed Activities) (Environmental Impact Assessment) Order 1987</p>	<p>Prior to project commencement</p>
		<p>Waste Treatment and Disposal</p> <p>a) Toxic and Hazardous Waste Construction of incineration plant, recovery plant (off-site), wastewater treatment plant (off-site), secure landfill facility, storage facility (off-site)</p> <p>b) Municipal Solid Waste Construction of incineration plant, composting plant, recovery / recycling plant, municipal solid waste landfill facility</p> <p>c) Municipal Sewage Construction of waste water treatment plant, marine outfall</p>	<p>EQ (Prescribed Activities) (Environmental Impact Assessment) Order 1987</p>	<p>Prior to project commencement</p>
		<p>Water Supply</p> <p>a) Construction of dams or impounding reservoirs with a surface area of 200 hectares or more</p> <p>b) Groundwater development for industrial, agricultural or urban water supply of greater than 4,500 cubic metres per day</p>	<p>EQ (Prescribed Activities) (Environmental Impact Assessment) Order 1987</p>	<p>Prior to project commencement</p>

6		Scheduled Waste		
6.1		Notification of the generation of scheduled wastes (SW)	Environmental Quality (Scheduled Wastes) Regulations 2005	All SW generators
		1) Every waste generator shall, within 30 days from the date of generation of SW, notify the DG of the new categories and quantities of SW which are generated		
6.2		Disposal of SW		
		1) SW shall be disposed of at prescribed premises only		
6.3		Responsibility of Waste Generator	Environmental Quality (Scheduled Wastes) Regulations 2005	All SW generators
		1) Every waste generator shall ensure that SW generated by him are properly stored, treated on-site, recovered on-site for material or product from such SW or delivered to and received at prescribed premises for treatment, disposal or recovery of material or product from SW 2) Every waste generator shall ensure that SW that are subjected to movement or transfer be packaged, labeled and transported in accordance with the guidelines prescribed by the DG		

6.4		Storage of SW	Environmental Quality (Scheduled Wastes) Regulations 2005	All SW generators
		<p>1) SW shall be stored in containers which are compatible with the SW to be stored, durable and which are able to prevent spillage or leakage of the SW into the environment</p> <p>2) Any person may store SW generated by him for 180 days or less after its generation provided that the quantity of SW on site shall not exceed 20 metric tonnes</p>		
6.5		Labeling of SW	Environmental Quality (Scheduled Wastes) Regulations 2005	All SW generators
		<p>1) The date when the SW are first generated, name, address and telephone no. of the waste generator shall be clearly labeled on the container that are used to store the SW</p>		
6.6		Waste Generator shall keep an inventory of SW	Environmental Quality (Scheduled Wastes) Regulations 2005	All SW generators
		<p>A waste generator shall keep accurate and up-to-date inventory in accordance with the Fifth Schedule of the categories and quantities of SW being generated, treated and disposed of and of materials or product recovered from such SW for a period up to three years from the date the scheduled waste was generated</p>		
7 Tree Preservation				
		Tree Preservation Order	Act 172 Town & Country Planning 1976	construction site
		<p>Prohibited from cutting trees unless with written approval from the relevant authority</p> <p>Prohibited from cutting trees from specified size, age, type or species which has existed at that location</p>		

Reference (Reviewed Acts, Laws and Regulations)

Environmental Quality Act, 1974 and subsidiary legislation as at 14th August, 2007

A) Regulations

1. Environmental Quality (Control of Petrol and Diesel Properties) Regulation P.U. (A) 145/2007
2. Environmental Quality (Scheduled Wastes) (Amendment) 2007, P.U. (A) 158
3. Environmental Quality (Scheduled Wastes) Regulations 2005 – P.U. (A) 294/2005
4. Environmental Quality (Dioxin and Furan) Regulations 2004 – P.U. (A) 104/2004
5. Environmental Quality (Control of Emission from Motorcycles) Regulation P.U.(A) 464/2003
6. Environmental Quality (Appeal Board) Regulations 2003 – P.U. (A) 115/2003
7. Environmental Quality (Halon Management) Regulations 1999 – P.U. (A) 452/99
8. Environmental Quality (Refrigerant Management) Regulations 1999 – P.U.(A) 451/99
9. Environmental Quality (Control of Emission from Petrol Engines) Regulation 1996 P.U.(A) 543/96
10. Environmental Quality (Control of Emission from Diesel Engines) Regulation P.U.(A) 429/96
11. Environmental Quality (Prescribed Premises) (Scheduled Wastes Treatment & Disposal Facilities) Regulations 1989 – P.U. (A) 141/89
12. Environmental Quality (Scheduled Wastes) Regulations 1989 – P.U. (A) 139/89
13. Environmental Quality (Motor Vehicle Noise) Regulations 1987 – P.U. (A) 244/87
14. Environmental Quality (Control of Lead Concentration in Motor Gasoline) 1985 – P.U. (A) 296/85
15. Environmental Quality (Sewage and Industrial Effluents) Regulations 1979 – P.U.(A) 12/79
16. Environmental Quality (Prescribed Premises) (Raw Natural Rubber) Regulations 1978 - P.U. (A) 338/78
17. Environmental Quality (Clean Air) Regulations 1978 – P.U. (A) 280/78
18. Environmental Quality (Prescribed Premises) (Crude Palm Oil) Regulations 1977 – P.U.(A) 342/77
19. Environmental Quality (Licensing) Regulations 1977, (P.U. (A) 198/77

B) Rules

20. Environmental Quality (Environmental Quality (compounding of Offences) (Opening Burning) Rules 2000 – P.U.(A) 310/2000
21. Environmental Quality (Compounding of Offences) Rules 1978 – P.U.(A) 281/78
22. Environmental Quality (Delegation of Powers) Order 2005 – P.U. (A) Order 2005 - 365/2005
23. Environmental Quality (Prescribed Conveyance) (Scheduled Wastes) Order – P.U.(A) 293/2005
24. Environmental Quality (Declared Activities) (Opening Burning) Order 2003 – P.U.(A) 460/2003
25. Environmental Quality (Delegation of Powers) (Perbadanan Putrajaya) Order 2002 – P.U.(A) 233/2002
26. Environmental Quality (Delegation of Powers) (Halon Management) Order 2000 – P.U.(A) 490/2000
27. Environmental Quality (Prescribed Activities) (Opening Burning) Order 2000 (Revoked by P.U.(A)

460/2003) P.U. (A) 308/2000

28. Environmental Quality (Delegation of Powers) (Investigation of Open Burning) 2000 – P.U. (A) 311/2000
29. Environmental Quality (Delegation of Powers) Order 1999 (Revoked by P.U.(A) 365/2005) – P.U. (A) 501/99
30. Environmental Quality (Prohibition on the use of Controlled Substances in Soap, Synthetic Detergent and other Cleaning Agents) Order 1995 – P.U. (A) 115/95
31. Environmental Quality (Delegation of Powers on Marine Pollution Control) 1994 - P.U. (A) 537/94
32. Environmental Quality (Prohibition on the use of Chlorofluorocarbons and as propellants and blowing agents) Order 1993 – P.U.(A) 434/93
33. Environmental Quality (Delegation of Powers on Marine Pollution Control) P.U.(A) 276/93
34. Environmental Quality (Prescribed Premises) (Scheduled Wastes Treatment & Disposal Facilities) Order 1989 – P.U.(A) 140/89
35. Environmental Quality (Prescribed Activities) Environmental Impact Assessment 1987 – P.U.(A) 362/87
36. Environmental Quality (Prescribed Premises) (Raw Natural Rubber) Order – P.U.(A) 250/78
37. Environmental Quality (Prescribed Premises) (Crude Palm Oil) Order 1997 – P.U.(A) 199/77
38. Environmental Quality (Perbadanan Putrajaya) (Water Pollution Control) Regulations, 1998

C) Other Acts, Regulations and Orders with no specific on Environmental Requirements related to the ISO 14001 EMS Legal Requirements

39. Explosive Act 1957 (Act 207) & Explosive Rules 1923 and Corrosive and Explosive Substances and Offensive Weapons Ordinance 1958 (Act 357) – reflects more the type of chemicals and the controls.
40. Road Transport Act 1987 (Act 333) and Commercial Vehicles Licensing Board Act 1987 (Act 334) – Reflects more on what kind of vehicles allowed on the road, construction of roads, etc.
41. National Land Code Act 56 / 1965. – Reflects the controls and management of land issue.
42. Electrical Supply Act and Regulations. Electricity Supply (Successor Company) Act 1990
43. Uniform Building By Laws 1984 – Reflects only plan submission, space, light, ventilation, temporary works in connection with building operations, structural and constructional requirements, etc
44. Building (Federal Territory of Kuala Lumpur) By-Laws 1985 – similar as 42 above
45. Sewerage Services Act 1993 (Act 508) and Regulations and Orders – not really applicable.
R 19 : Industrial effluent or noxious matter not to communicate with public sewer, etc
46. Federal Territory of Kuala Lumpur Land Rules 1995 – Covers land application, premium on leasing, rent, TOL, permit to use air space, etc
47. Federal Territory of Putrajaya Land Rules 2002 - Covers land application, premium on leasing, rent, TOL, permit to use air space, permit to extract, remove& transport rock materials
48. Control of Activities on the lake (FT of Putrajaya) By-Law 2004
49. Gas Supply Act 1993 / Gas Supply Regulations 1997 – covers licensing, gas installation, info., excavation & safety of gas installation, etc
50. Housing Development (Control & Licensing) Act 1996 / Housing Development (Control & Licensing) Regulations 1989

51. Road Transport Act 1987 / Motor Vehicles (Construction Equipment & use of speed monitoring device) Rules 1998
52. Local Govt. Act 1976 / Parks (FT of Putrajaya) By-Laws 2002 – covers offences, entry of animals, catching / killing animals / birds, vehicle entry, etc
53. Petroleum Development Act 1974 / Petroleum Regulations 1974
54. Protection of Wildlife Act 1972 / Protection of Wildlife (trade in specimen of species under export ban) Regulations 1980
55. Local Govt Act 1976 / Public Housing (FT of Putrajaya) By-Law 2000
56. Sewerage Services Act 1993 / Sewerage Services (Licensing) Regulation 1994
57. Federal, National Land Code, Act 56 & P.P. 474, 1965
58. Land Conservation Act 1960,
59. Department of Sewerage Services, Sewerage Services Act, 1993
60. Federal, Factories and Machinery Act, 1967, Act 139 (Revised)
61. Federal, Road Traffic Ordinance, 1958
62. Town and Country Act 1976, Act 172ui
63. Federal, Water Act 1920 (Act 418),
64. Water Supply (Federal Territory of Kuala Lumpur) Act 1998 (Act 581)
65. Federal, Civil Aviation Act, 1966, Act 3, 1969
66. Federal, Housing Development Act (Licencing and control), 1965
67. Dept. of Geological Survey, Geological Survey Act, 1974
68. Dept. of Forestry, National Forestry Act 1984 Act 313, Wood Based Industries (State Legislatures Competency) 1984-Act 317
69. Federal, Mineral Development Act 1994, Act 525 & Akta Pembangunan Mineral 1994 (Akta 525)
70. Federal, Aboriginal People Act, 1954 Act 134 (Revised), 1974
71. Federal, Antiquities Act 1976, Act 168
72. Federal, City of Kuala Lumpur (Planning) Act,1973
73. Local Authorities, Earthwork By Law 1996
74. National Parks Act 1980
75. Street Drainage and Building Act 1974
76. Local Government Act, 1976
77. Putrajaya Environmental Management Guide, Final Report, 1998
78. Federal, Explosive Ordinance, 1957



Standard and Quality Division
Construction Industry Development Board Malaysia
Level 8, Grand Seasons Avenue
No. 72 Jalan Pahang
53000 Kuala Lumpur

Tel : +603-2617 0360/396/358
Fax : +603-4045 1808
Email : tech@cidb.gov.my

ISBN 978-983-2724-74-2



9 789832 724742