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Message from MD

SOEM is an Audio Product manufacturer located in Sungai Petani, Kedah, which was established since December 1974 and has been awarded ISO 14001 certification .

SOEM, beside product manufacturing operation, we are also very concerned about environmental preservation in our operation. Therefore we are committed to comply with all applicable laws or regulation related to environment.

Several eco-positive activities had been carried out throughout the company to meet the environmental objective In FY2020 in-order to minimize the environmental impact such as energy saving through energy saving program by increase LED light (18W) and replace conventional florescent tube with coil ballast (36W), Installation of OPTR (Off-Peak Tariff Rider) to obtain reduction of electricity saving and increase awareness level of staff in chemical material handling.

Besides the environmental awareness, training had been carried out as one of the important eco-positive activities. We had conducted the Chemical Spillage Drill, Chemical Safety Training, Scheduled Waste Handling Training, create awareness on Hazards Risk Assessment and Risk Control and so on for all the related key persons to improve their knowledge.

We will continue to enhance our activities in environmental conservation in-order to preserve the environment for the well-being of future generation.

Mr. Won Yin Hock Managing Director SOEM.



Company Profile

		Andrew Terute Carlos Vala Period Vala Period Vala Period Perio
Company Name	S&O Electronics (M) Sdn Bhd	Maxwell Kanggar S Musang- Tayan Kesakat P P Tenggol Poth Cameron August Tayan Cameron Highlands Tayan
Managing Director	Mr. Won Yin Hock	P. Pangkor Kuahalipis - Ron KUANTAN
Address	Lot 202, Bakar Arang Industrial Estate, 08000 Sungai Petani, Kedah, West Malaysia.	Map of Peninsular "• V(rinava Serember Gutter Berger Serember Gutter Berger Serember Seremberger Serember Gutter B
Date of Incorporation	31 st December 1974	Malaysia
Date of Production Commencement	1st January 1976	Pulau Rupat Singapore Singapore
Number of Employees	1,954	IN THE I O AT ST
Land Area	63,521 m ²	Sedar KEDAH
Build-up Area	48,690 m ^²	P SONGSONG 0 The full data of the second sec
Paid Up Capital	RM 24,000,000 (About U\$5,700,000)	Singler Danst Marhae Beijen Voltes Sprinting Kangen Lingen Kangen Lingen Kangen Lingen Kangen Lingen Lingen Kangen Lingen
X//		Construction

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Our Main Products

Finished Goods	 ·CD/ Micro-Compo/ Hi-Fi Compo/ Slim Micro Compo ·AV Receiver / Slim AVR ·Sound Bar ·Sound Partner ·CD/ SD Card Compo System ·Bluetooth Related Products ·Clock Audio ·Game Console
Key Components & EMS	 ·Key Component : CD Changer/ CD Mechanism Unit ·EMS – PCBA : Car Audio, Automotive Lighting, Motor Driver, PCB, SMPS, PLC ·EMS – Box Build : Synthesizer, Bluetooth i-Remote, Game Player, Game Sound, Game Console, USB Microphone



Environmental Policy & Certification

S&O ELECTRONICS (MALAYSIA) SDN. BHD.

ENVIRONMENTAL POLICY POLISI ALAM SEKITAR

S&O Electronics (Malaysia) Sdn. Bhd. recognizes that the Company has substantial responsibility and commitment to continually improve in the Environmental Management System and programs.

S&O Electronics (Malaysia) Sdn. Bhd. mengenalpastikan bahawa Syarikat mempunyai tanggungjawab dan homitmen dalam peningkatan berterusan Sistem Pengurusan Alam Sekitar dan program yang berhaitan dengan alam sekitar.

The Company shall fulfil its compliance obligations including all applicable environmental laws and regulations. The Company shall take every measure to prevent pollution, promote waste minimization and conservation of natural resources through self-regulation approach. Syarikat akan menatuki semua undang-undang alam sekitar dan tanggangjauahnya atas alam sekitar. Syarikat bersedia untuk mengambil langkah setuajar untuk mencegak pencemaran alam sekitar, menggalakkan pengurangan sisa buangan dan pemuliharaan samber semula jadi secara pematahan kendiri.

In order to sustain and ensure the effectiveness of the Environmental Management System and achieve its intended outcomes, the Company will also undertake the following:-Untuk memastikan dan mengekalkan tahap hecekapan dan keberhesanan Sistem Pengurusan Alam Sekitar dan mencapai keputusan seperti yang diingini, Syarikat juga akan mengambil kira kangkak-kangkak berikat:-

- Ensure a safe and healthy working environment for all its employees and business partners. Memastikan persekitaran tempat kerja yang selamat dan sikat untuk semua pekerja dan rahan nlaganya.
- Periodically review and enhance its environmental performance to ensure the achievement of its environmental objectives and targets.

Mengkaji dari masa ke semasa dan meningkathan prestasi alam sekitar bagi memastihan-pencapaian objektif alam sekitar Syarihat.

- Communicating this Environmental Policy to all employees and business partners. Berkemunikasi polisi alam sekitar ini kepada semua pekerja dan rakan niaga Syarikat.
- Make this policy available to all interested parties. Menyediahan polisi alam sekitar ini untuk semua pikah yang berminat.

In conducting the business activities, the employees and business partners of S&O must comply with this policy in the daily activities and shall strive to protect the environment diligently. Dalam menjalankan aktiviti-aktiviti perniagaan, semua peherja dan rakan niaga S&O perlu mematuhi polici ini dalam aktiviti harian dan dikehendaki berusaha berusangguh-sungguh untuk melindungi alam sehitar hita.

Unino

Mr. Won Yin Hock Managing Director

Date: 26 April 2021 Revision: 4





Reg. Number	13862 A - E	Valid From	2019-11-18
First issue date	2013-12-30	Last change date	2021-02-22
Valid until	2022-12-29	IAF Sector	19



Environmental Management System Certificate

ISO 14001:2015

We certify that the Environmental System of the Organization:

S&O ELECTRONICS (MALAYSIA) SDN. BHD.

Is in compliance with the Standard UNI EN ISO 14001:2015 for the following products/services:

Design, manufacturing and supply of multimedia audio system include avr, mini/micro compo system, sound bar, bluetooth speaker, party speaker and other similar products. Provision of ems solution including manufacturing of printed circuit board assembly and related products through the reflow, wave, manual soldering process, assembling and testing. Manufacturing of Video Game Console included accessory part as vell as service part.





The maintaining of the certification is subject to annual surveillance and dependent on the observance of Kiwa Cerment Itals contractual requirements. The date of issuance of this certificate is the date of first issue by another accredited body. This certificate is composed of 1 page.

Kiwa Cormet Italia S.p.A. Soujettà con socio unico, soggetta di Itatività di direzione e ocordinamento di Kiwa Italia Holding Sel Via Cadriano, 23 40057 Ganardo dell'Emilio

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CERMET

S&O ELECTRONICS (MALAYSIA) SDN. BHD. Registered Headquarters

Registered Headquarters Lot 202 Bikkar Arang Industrial Estate, Kuala Muda, 08000 Sungai Petani, Kedah. Malaysia Certified sites

Lot 202 Bakar Arang Industrial Estate, Kuala Muda, 08000 Sungai Petani, Kedah. Malaysia







Environmental Management Systems

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EMR is to ensure the compliance of the company to ISO 14001:2015 standards.
Each EMS Working Committee's Responsibilities :

- Achievement of objective/ target
- Setting program and activities
- Ensure the compliance of legal requirements.
- Departmental Representative is responsible to ensure the company operation is comply to EMS 14001:2015 standards and take correction action if necessary

Note-* denotes changes made



Environmental Management Systems

Environmental Education

In order to enhance the knowledge and competency of all employees in the environmental aspects, SOEM had conducted several sessions of training program on ISO 14001:2015 Environmental Management System in the fiscal 2020.

Date	Program	Targeted group	Goal	No. of participants
07 Aug' 20	Contractors & Vendors	All contractors	To create awareness of	12
10 Aug 20 12 Aug' 20	Health, environment & Security.	entering the factory compound.	towards safety & health, security and environmental requirements .	3 17
17 Dec' 20	Chemical Spillage Drill Training	Chemical Spillage Team	Educate staffs on how to barricade the area if spillage occurred	12



Environmental Management Systems

Date	Program	Targeted group	Goal	No. of participants
20 Nov' 20 08 Jan' 21	Chemical Safety training for employees	Chemical Handler	Increased awareness level of employee in chemical material handling such as identification of chemical material & labelling and including use of PPE and safety data sheet.	24 69
16 Jul' 20	Scheduled Waste Briefing	Scheduled Waste Handler	Understand the handling of storage and disposal of schedule waste according to schedule waste regulation 2005 by Department of Environment	18
02 Dec' 20	Tool box talks for forklift drivers/ pallet truck drivers	Forklift Drivers/ Pallet Truck Drivers	Understand the correct method of safe forklift driving/ pallet truck driving	8



Environmental Objectives & Achievements

Objectives in Fiscal 2020	Achievements in Fiscal 2020	Self Evaluation
1. Awareness & understanding the procedure during handling of storage and disposal of Schedule Waste according to Schedule Waste regulation 2005 by Department of Environment.	Managed to conduct training/briefing for 18 staffs for procedure of Scheduled Waste handling.	60%
2. Electricity cost reduction from TNB by Installation of OPTR (Off-Peak Tariff Rider) to obtain reduction from TNB. Target cost reduction : RM180,000	Manage to obtained the electricity cost saving for the period = RM249,115.00	138%
 To increase awareness level of production staff in chemical material handling such as identification of chemical material & labelling (Environmental aspect) 	Conducted training for 93 staffs for chemical used in production line, identification of chemical material & labelling . All the activities were carried out as per plan.	100%



Environmental Objectives & Achievements

Objectives in Fiscal 2020	Achievements in Fiscal 2020	Self Evaluation
4. To save energy through energy saving programmes by increase LED light (18W) and replace conventional florescent tube with coil ballast.(36W).	Replaced conventional fluorescent tube with LED light as per plan. F1 front store - 188 pcs. F1 back store - 183 pcs. F2 PE Office + rest corner - 145 pcs F2 Warehouse + compound lighting - 65 pcs.	100%





Environmental Impacts & Reduction Measures

1. Minimization and Recycle of Waste



The increasing of Sellable Waste and General Waste was due to high production order and additional of manpower.





The Sellable waste being collected and sold to collector for recycling .

'SOEM reduced the scheduled waste generated from 7,963 kg/lit (2019) to 7,657 kg/lit (2020). A reduction of 306 kg/lit (3.84%) due to recovery of solder dross by having in-house solder recycling activity and maximum utilization of flux & thinner by using 5 times cleaning before disposing.



Electronic Waste (E-Waste) Disposal





Clear instruction and proper labeling are available to ensure proper usage of E-Waste Bin by employees

E-Waste includes all the electronic wastes which are destined for reuse, resale, recycling or disposal. Two E-Waste yellow bins are available in SOEM. The purpose of E-Waste bins are to ensure that the handling and disposal of E-Waste (SW-110) are compliance with Environmental Quality Act 1974 and requirement of Department of Environmental. Beside that, separate the E-Waste from mixed up with general waste in company.



2. Reduction of Water Usage

Item	Unit	2019	2020
Amount	m³	56,741	60,330
Payment	RM	86,288	92,161

The increasing of water usage was due to high production order and additional of manpower.

Reduction Measures :

SOEM Rain Water Reading Record

Year	Usage of Rain Water (m ³)
2019	154
2020	418

SOEM Well Water Reading Record

Year	Usage of Well Water (m ³)
2019	60
2020	180



Rain Water Tank

There are 2 water tanks in SOEM for the purpose of rainwater collection. We have been using the rain water for toilet cistern since year 2005.



We have been using the well water for gardening since year 2015.



3. Management of Chemical

Chemical Substances



ThreeBond 1401B



Sankol Lubricants 1001Z



Propanol



Tamura Flux EC-19S-10



Tape Head Cleaner TLT808



Floil



Daibond Zbond-N-1603H

Upon receiving of new chemical substances, will be stored at Chemical Store Room at Parts Control.

All chemical substances are stored in chemical storage room. Only competent person who had undergone training in handling chemical substances are allowed to enter and handle the chemical substances. The used chemical or scheduled waste are being stored at scheduled waste store room before disposal.



Work Flow of Chemical Substances Management





4. Compliance with Environmental Regulations

To ensure the compliance with MS 1596 Standard under the Malaysian Environmental Quality (Clean Air) Regulations 2014,

4 (A) Atmosphere Emissions – Air Emission Monitoring For Chimney

Schedule of Monitoring

Chimney	Frequency of Monitoring
2,3,4,5,6,8,9	Conducted once a year

Results (Based on date of Monitoring conducted on 22 March 2021)

	EQ Clean Air (2014)	14) Chimney* Unit (Concentration) - Measurement In Fiscal 2020 (mg/m ³)							
Item (Test Parameter)	Limit (mg/m³)	POINT 2	POINT 2 POINT 3		POINT 4 POINT 5		POINT 8	POINT 9	
Particulate Matter	50	1.44	2.97	1.85	1.48	3.53	2.42	0.79	
Ammonia	30	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
Chlorine	5	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
Hydrochloric Acid	30	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
Hydrogen Sulphide	5	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
Nitrogen Dioxide	400	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
Sulphur <mark>Dioxide</mark>	400	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
Tin	5	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
Lead	1	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
Mercury	0.2	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
Volatile Organic Compound	150	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not detected	



Layout for the Location of Chimney





4 (B) Pollutant Loads of Public Water Areas

1) Drain Water Monitoring Result for the Fiscal Year 2020

Note : Reference specification is based on Environmental Quality (Industrial Effluent) Regulation 2009. This monitoring is only additional test for reference only as there is no effluent treatment plant in SOEM.

No	Poromotoro		JIT Store			Local Store		
INU	Farameters	Std B	Result	OK	NG	Result	OK	NG
1	Aluminium	15mg/L	0.36	√		0.26	√	
2	Ammoniacal Nitrogen	20mg/L	ND	√		ND		
3	Arsenic	0.10mg/L	ND	√		ND	√	
4	Barium	2.0mg/L	0.08	\checkmark		0.04	\checkmark	
5	BOD5 at 20°C	50mg/L	11	\checkmark		49	\checkmark	
6	Boron	4.0mg/L	0.09	\checkmark		0.06	\checkmark	
7	Cadmium	0.02mg/L	ND	\checkmark		ND	\checkmark	
8	Chromium, Hexavalent	0.05mg/L	ND	\checkmark		ND	\checkmark	
9	Chromium, Trivalent	1.0mg/L	ND	\checkmark		ND	\checkmark	
10	Colour : ADMI units	200	ND	\checkmark		ND	\checkmark	
11	Copper	1.0mg/L	0.06	\checkmark		0.02	\checkmark	
12	Cyanide	0.10mg/L	ND	\checkmark		ND	\checkmark	
13	Fluoride	5.0mg/L	2.1	\checkmark		1.0	\checkmark	
14	Formaldehyde	2.0mg/L	ND	\checkmark		0.46	\checkmark	
15	Free Chlorine	2.0mg/L	ND	\checkmark		ND	\checkmark	
16	Iron (Fe)	5.0mg/L	0.38	\checkmark		0.39	\checkmark	
17	Lead	0.5mg/L	ND	\checkmark		ND	\checkmark	
18	Manganese	1.0mg/L	0.04	\checkmark		0.02	\checkmark	
19	Mercury	0.05mg/L	ND	\checkmark		ND	\checkmark	
20	Nickel	1.0mg/L	ND	\checkmark		ND	\checkmark	
21	Oil and Grease	10mg/L	2	\checkmark		2	\checkmark	
22	PH Value	5.5 - 9.0	7.0	\checkmark		6.7	\checkmark	
23	Phenol	1.0mg/L	ND	\checkmark		ND	\checkmark	
24	Selenium	0.5mg/L	ND	\checkmark		ND	\checkmark	
25	Silver	1.0mg/L	ND	\checkmark		ND	\checkmark	
26	Sulphide	0.50mg/L	ND	\checkmark		ND	\checkmark	
27	Suspended Solids	100mg/L	ND	\checkmark		ND	\checkmark	
28	Temperature	40°C	31.7	\checkmark		31.6	\checkmark	
29	Tin	1.0mg/L	ND	\checkmark		ND	\checkmark	
30	Zinc	2.0mg/L	0.35	\checkmark		0.27	\checkmark	
31	Chemical Oxigen Demand / COD	200mg/L	21	\checkmark		129	\checkmark	

Result : All complied with Environmental Quality (Industrial Effluent) Regulation 2009

SHARP Be Original.

2) Sewage Water Monitoring Result for the Fiscal Year 2020

Note: Complied with Environmental Quality (Sewage) Regulations 2009 - Regulation 7

Monitoring has been done on a monthly basis.

			Existing Sewage Treatment	Analysis		
	Parameters	Existing Sewage	(Approved Before Jan 1999) -			
Date Of Report	(BOD = Biochemical Oxygen Demand; COD = Chemical	Treatment (Approved		Decult	OK	NC
	Oxygen Demand)	After Jan 1999)	Mechanical System	Result	UK	NG
	BOD, at 20 Deg Celcius : mg/l	50	60	ND	\checkmark	
	COD : mg/l	200	240	27		
Apr 20	Suspended Solids : mg/l	100	120	36		
Apr-20	Oil and Grease : mg/l	20	20	ND		
	Ammoniacal Nitrogen : mg/l	50	60	ND	V	
					,	
	BOD. at 20 Deg Celcius : mg/l	50	60	7	V	
	COD: mg/l	200	240	36	Ń	
	Suspended Solids : mg/l	100	120	12	Ń	
May-20	Oil and Grease : mg/l	20	20	9	7	
	Ammonianal Nitrogon , mg/l	50	<u> </u>	7		
	Ammoniacai Nitrogen : mg/i	50	60	/	N	
					1	
	BOD, at 20 Deg Celcius : mg/l	50	60	14	N	
	COD : mg/l	200	240	39	N	
Jun-20	Suspended Solids : mg/l	100	120	ND	N	
	Oil and Grease : mg/l	20	20	5	N	
	Ammoniacal Nitrogen : mg/l	50	60	36		
	BOD, at 20 Deg Celcius : mg/l	50	60	22	\checkmark	
	COD : mg/l	200	240	54	\checkmark	
Jul-20	Suspended Solids : mg/l	100	120	19	\checkmark	
	Oil and Grease : mg/l	20	20	ND	\checkmark	
	Ammoniacal Nitrogen : mg/l	50	60	42	\checkmark	
	BOD, at 20 Deg Celcius : mg/l	50	60	30	V	
Aug-20	COD: mg/l	200	240	64	Ń	
	Suspended Solids : mg/l	100	120	10	V	
	Oil and Grease : mg/l	20	20	5	V	
	Ammoniacal Nitrogen : mg/l	50	60	47	V	
					,	
	BOD, at 20 Deg Celcius : mg/l	50	60	8		
	COD: mg/l	200	240	72	Ň	
	Suspended Solids : mg/l	100	120	29	, √	
Sep-20	Oil and Grease : mg/l	20	20	2	√	
	<u> </u>					
	Ammoniacal Nitrogen : mg/l	50	60	44	\checkmark	

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Dec-20 Suspended Solids : mg/l 100 120 162 Oil and Grease : mg/l 20 20 ND Ammoniacal Nitrogen : mg/l 50 60 55 BOD, at 20 Deg Celcius : mg/l 50 60 22 COD : mg/l 200 240 68 Suspended Solids : mg/l 100 120 31 Oil and Grease : mg/l 20 20 5 Ammoniacal Nitrogen : mg/l 50 60 94		
Dil and Grease : mg/l 20 20 ND Ammoniacal Nitrogen : mg/l 50 60 55 BOD, at 20 Deg Celcius : mg/l 50 60 22 COD : mg/l 200 240 68 Suspended Solids : mg/l 100 120 31 Oil and Grease : mg/l 20 20 5 Ammoniacal Nitrogen : mg/l 50 60 94		\checkmark
Ammoniacal Nitrogen : mg/l 50 60 55 Image: Ammoniacal Nitrogen : mg/l Image: Ammoniacal Nitrogen : mg/l 50 60 22 BOD, at 20 Deg Celcius : mg/l 200 240 68 COD : mg/l 200 100 120 31 Suspended Solids : mg/l 20 20 5 Ammoniacal Nitrogen : mg/l 50 60 94		
Jan-21 BOD, at 20 Deg Celcius : mg/l 50 60 22 Jan-21 COD : mg/l 200 240 68 Oil and Grease : mg/l 100 120 31 Oil and Grease : mg/l 20 20 5 Ammoniacal Nitrogen : mg/l 50 60 94	\checkmark	
Jan-21 Jan-21 COD : mg/l 200 240 68 Jan-21 Suspended Solids : mg/l 100 120 31 Oil and Grease : mg/l 20 20 5 Ammoniacal Nitrogen : mg/l 50 60 94	V	
Jan-21 Suspended Solids : mg/l 100 120 31 Oil and Grease : mg/l 20 20 5 Ammoniacal Nitrogen : mg/l 50 60 94	Ń	
Jan-21 Oil and Grease : mg/l 20 20 5 Ammoniacal Nitrogen : mg/l 50 60 94	Ń	
Ammoniacal Nitrogen : mg/l 50 60 94	Ń	
BOD, at 20 Deg Celcius : mg/l 50 60 25	N	
COD: mg/I 200 240 89	N	
Feb-21 Suspended Solids : mg/l 100 120 41	N	
Oil and Grease : mg/l 20 20 2	N	
Ammoniacal Nitrogen : mg/I 50 60 34	N	
BOD, at 20 Deg Celcius : mg/l 50 60 ND	\checkmark	
COD : mg/l 200 240 26		
Mar-21 Suspended Solids : mg/l 100 120 18		
Oil and Grease : mg/l 20 20 5		
Ammoniacal Nitrogen : mg/l 50 60 23		

SH Be (

Result : Complied with Environmental Quality (Sewage) Regulations 2009-Regulation 7 with existing Sewage Treatment approved after Jan 1999.

SHARP Be Original.

S&O ELECTRONICS (M) SDN. BHD.

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