



BULETIN

UNIT STANDARD, PENGUJIAN & MAKMAL
CAWANGAN KEJURUTERAAN ELEKTRIK

Edaran dalaman sahaja

PENAFIAN:

Unit Standard, Pengujian & Makmal tidak akan bertanggungjawab terhadap sebarang kehilangan atau kerosakan yang dialami kerana menggunakan maklumat yang diperolehi daripada buletin ini



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Kelulusan Bahan/Barangan - Mesyuarat Ahli Jawatankuasa Kelulusan Bahan, CKE - Senarai Bahan/Barangan Yang Diluluskan	4
Pemeriksaan Kualiti Bahan/Barangan Elektrik	16
Verifikasi Kilang	17
<i>Flying Squad</i>	19
Informasi	20
Tazkirah	21

UNIT STANDARD, PENGUJIAN & MAKMAL

Cawangan Kejuruteraan Elektrik
Ibu Pejabat JKR Malaysia
Lot 8, Jalan Chan Sow Lin
50582 Kuala Lumpur
Tel : 03-9286 3644 Faks : 03-9287 6175

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KHALID MOHD GHAUTH
SHAHRUL AFFENDY ABU BAKAR
WAN NORHIDA W IBRAHIM
NORHASHIMAH ISMAIL
NOORHUNAINIE MOHD ZAINUDIN
MOHD HANIF JAMALUDIN
SALMAH JAPAR

Pegawai Penerbitan

FARIZAD YAACOB

Wartawan

MOHD PUAT RAMLI
NG KIM KONG

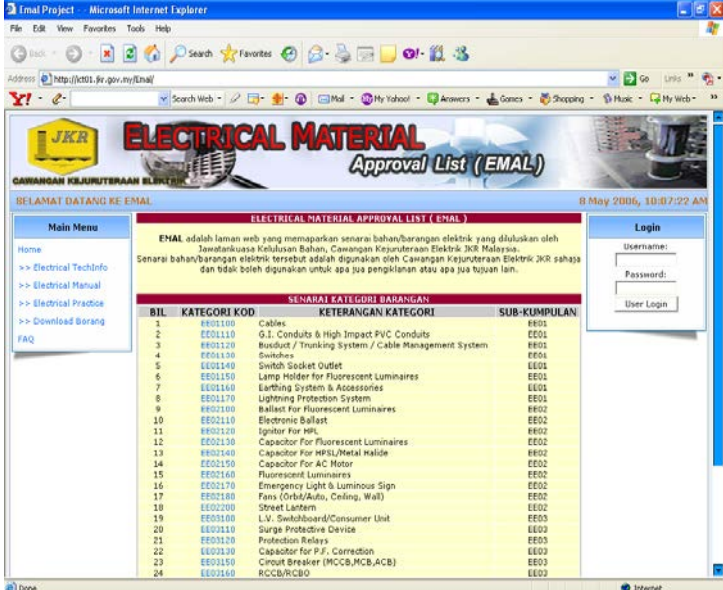
SUMBANGAN PEMBACA

Kami mengalu-alukan pembaca menghantar maklumbalas dan artikel untuk penerbitan di dalam Buletin ini.

Sila hantar sumbangan anda ke emel:
hunainie@jkr.gov.my

selamat
datang
ke laman web
*Electrical Material
Approval List (emal)*

Terokai dan ketahui pelbagai maklumat



BIL	KATEGORI KOD	KETERANGAN KATEGORI	SUB-KUMPULAN
1	EE01100	Cables	EE01
2	EE01110	G.I. Conduits & High Impact PVC Conduits	EE01
3	EE01120	Busduct / Trunking System / Cable Management System	EE01
4	EE01130	Switchgear	EE01
5	EE01140	Switch Socket Outlet	EE01
6	EE01150	Lamp Holder for Fluorescent Luminaires	EE01
7	EE01160	Earthing System & Accessories	EE01
8	EE01170	Lightning Protection System	EE01
9	EE02100	Ballast for Fluorescent Luminaires	EE02
10	EE02110	Electronic Ballast	EE02
11	EE02120	Igniter for HPL	EE02
12	EE02130	Capacitor for Fluorescent Luminaires	EE02
13	EE02140	Capacitor for HPS/Metal Halide	EE02
14	EE02150	Capacitor for AC Motor	EE02
15	EE02160	Fluorescent Luminaires	EE02
16	EE02170	Emergency Light & Luminous Sign	EE02
17	EE02180	Fans (Ceiling/Auto, Ceiling, Wall)	EE02
18	EE02200	Street Lantern	EE02
19	EE03100	L.V. Switchboard/Consumer Unit	EE03
20	EE03110	Surge Protective Device	EE03
21	EE03120	Protection Relays	EE03
22	EE03130	Capacitor for P.F. Correction	EE03
23	EE03150	Circuit Breaker (MCCB, MCCB, ACB)	EE03
24	EE03160	RCCB/RMCO	EE03

Anda hanya perlu KLIK!
di www.ictjkr.gov.my/Emal



Mesyuarat Ahli Jawatankuasa Kelulusan Bahan, CKE

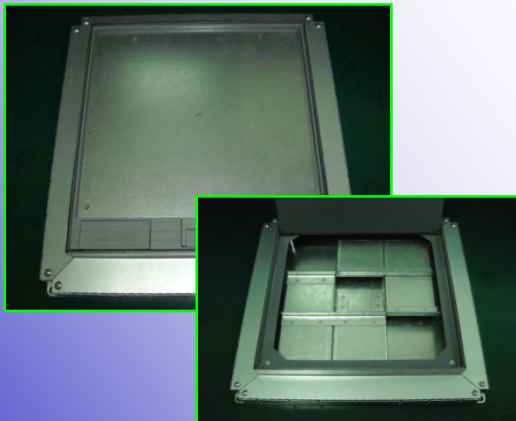
27 April 2011 (Rabu) – Jawatankuasa Kelulusan Bahan telah memutuskan sebanyak sembilan belas (19) bahan/barangan diluluskan pada mesyuarat tersebut. Jenis bahan/barangan yang diluluskan adalah *Generator Set, Cable Management Systems c/w Accessories (Underfloor System), HT Cable, Miniature Circuit Breaker (MCB), Surge Protective Devices (SPD), Residual Current Operated Circuit Breaker (RCCB), Ceiling Fan, Fluorescent Luminaires (T5), Moulded Case Circuit Breaker (MCCB), Emergency Light dan Galvanised Steel Conduit Accessories.*

27 Mei 2011 (Jumaat) – Jawatankuasa Kelulusan Bahan telah memutuskan sebanyak empat belas (14) bahan/barangan diluluskan pada mesyuarat tersebut. Jenis bahan/barangan yang diluluskan adalah *Power Capacitor, Generator Set, Lamp Holder For Fluorescent Luminaires (T5), Ballast For PLC, Wall Fan, Ventilating Fan, Moulded Case Circuit Breaker (MCCB), PVC Cable dan Cable Management Systems c/w Accessories (Raisedfloor System).*

29 Jun 2011 (Rabu) – Jawatankuasa Kelulusan Bahan telah memutuskan sebanyak lapan belas (18) bahan/barangan diluluskan pada mesyuarat tersebut. Jenis bahan/barangan yang diluluskan adalah *PVC Insulated Cables (Armoured & Non Armoured), Ignitor For HPL, Electronic Ballast For Fluorescent Luminaires (T5), Busbar Trunking (Busduct System), Fluorescent Luminaires, Moulded Case Circuit Breaker (MCCB), Surge Protective Devices (SPD), Street Lantern (LED Luminaires), Miniature Circuit Breaker (MCB), 11kV Dry Type Distribution Transformer dan Ceiling Fan.*

Senarai Bahan/Barangan Yang Diluluskan

Syarikat Lan-Ric Industries Sdn. Bhd.



Jenama: LANRIC

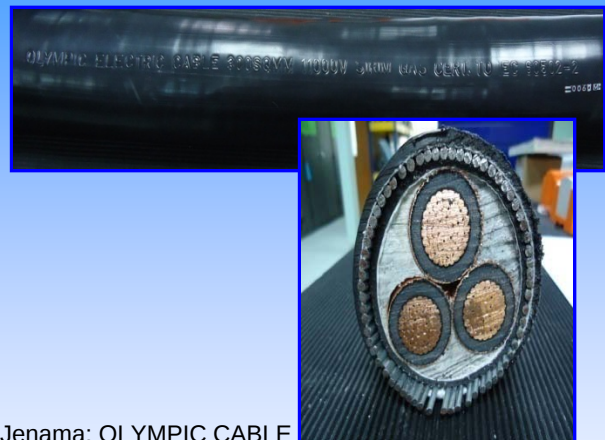
Jenis Barangan: *Cable Management Systems c/w Accessories (Underfloor System).*

Model : Junction Box & Service Outlet Box.

Tarikh Tamat: 15. 2.2013

Tel: 05-2822361/362, Faks: 05-2822363

Olympic Cable Company Sdn. Bhd.



Jenama: OLYMPIC CABLE

Jenis Barangan: *HT Cable*

Model : 6.35/11kV CU/XLPE/SCT/PVC/SWA/PVC 3C

(35mm², 50mm², 70mm², 95mm², 120mm²,
150mm², 185mm², 240mm², 300mm² & 400mm²)

Tarikh Tamat: 15. 2.2013

Tel: 06-3373088, Faks: 06-3373099

KELULUSAN BAHAN/BARANGAN

Olympic Cable Company Sdn. Bhd.



Jenama: OLYMPIC CABLE

Jenis Barangan: HT Cable

Model : XLPE/SCT/PVC/SWA/PVC 3C (35mm², 50mm², 70mm², 95mm², 120mm², 150mm², 185mm², 240mm², 300mm² & 400mm²)

Tarikh Tamat: 15. 2.2013

Tel: 06-3373088, Faks: 06-3373099

E & E Enterprise Sdn. Bhd.



Jenama: KOZUKA

Jenis Barangan: Miniature Circuit Breaker

Model : K200s: C6, C10, C16, C20, C25, C32 & C40 (1, 2 & 3 Poles).

Tarikh Tamat: 15.2. 2013

Tel: 03-80633136, Faks: 03-80633135

SPT Electric Sdn. Bhd



Jenama: ISKRA ZASCITE

Jenis Barangan: Surge Protective Devices (SPD)

Model : PROBLOC BSR 100/320 (3+1)

Tarikh Tamat: 15.2. 2013

Tel: 03-80761859, Faks: 03-80761858

E & E Enterprise Sdn. Bhd.



Jenama: KOZUKA

Jenis Barangan: Residual Current Operated Circuit Breaker

Model : Sila rujuk EMAL

Tarikh Tamat: 15.2. 2013

Tel: 03-80633136, Faks: 03-80633135

KELULUSAN BAHAN/BARANGAN

Panasonic Manufacturing Malaysia Berhad



Jenama: KDK

Jenis Barangan: *Ceiling Fan*

Model: K15WO, K12VO & K12WO

Tarikh Tamat: 15.2.2013

Tel: 03-58915000, Faks: 03-58915108

Sirijaya Industries Sdn. Bhd.



Jenama: SJ LITE

Jenis Barangan: *Fluorescent Luminaires (T5)*

Model : Sila rujuk EMAL

Tarikh Tamat: 15. 2.2013

Tel: 05-2923888, Faks: 05-2912222

Alpha Automation (Sel) Sdn. Bhd



Jenama: CHINT

Jenis Barangan: *Moulded Case Circuit Breaker (MCCB)*

Model : NM1-100H/2300

Tarikh Tamat: 15.2.2013

Tel: 03-55693698, Faks: 03-55694099

L.V. Control Sdn. Bhd



Jenama: DUVAL

Jenis Barangan: *Surge Protective Devices (SPD)*

Model : Sila rujuk EMAL

Tarikh Tamat: 15.2.2013

Tel: 03-56317803, Faks: 03-56364780

KELULUSAN BAHAN/BARANGAN

Alpha Automation (Sel) Sdn. Bhd.



Jenama: **CHINT**
 Jenis Barangan: *Moulded Case Circuit Breaker (MCCB)*
 Model : Sila rujuk EMAL
 Tarikh Tamat: 15.2.2013
 Tel: 03-55693698, Faks: 03-55694099

Utama Switchgear Sdn. Bhd.



Jenama: **EPS**
 Jenis Barangan: *Residual Current Operated Circuit Breaker*
 Model : Sila rujuk EMAL
 Tarikh Tamat: 15. 2. 2013
 Tel: 03-80241215/16, Faks: 03-80241796

Syarikat Lan-Ric Industries Sdn. Bhd.



Jenama: **LANRIC**
 Jenis Barangan: *Galvanised Steel Conduit Accessories*
 Model : Sila rujuk EMAL
 Tarikh Tamat: 15. 2.2013
 Tel: 05-2822361/362, Faks: 05-2822363

Pekat Teknologi Sdn. Bhd



Jenama: **PEKAT**
 Jenis Barangan: *Surge Protective Devices (SPD)*
 Model : 415PKT65-385
 Tarikh Tamat: 15.2.2013
 Tel: 03-78850022, Faks: 03-78850033

KELULUSAN BAHAN/BARANGAN

L.V. Control Sdn. Bhd.



Jenama: **DUVAL**

Jenis Barangan: *Surge Protective Devices (SPD)*

Model : D150B-385 (7 nos. D150B-385 + 1 no. DNL)
& D100B-385 (7 nos. D100B-385 + 1 no. DNL)

Tarikh Tamat: 15.2.2013

Tel: 03-56317803, Faks: 03-56364780

LKE Electric Sdn. Bhd.



Jenama: LKE

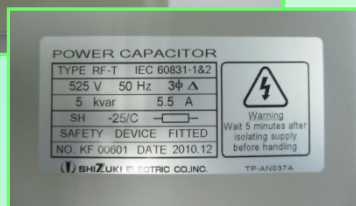
Jenis Barangan: *Residual Current Operated Circuit Breaker*

Model : Sila rujuk EMAL

Tarikh Tamat: 15. 2. 2013

Tel: 03-56337010, Faks: 03-56338368

Wise Pro Sdn. Bhd.



Jenama: **SHIZUKI**

Jenis Barangan: *Power Capacitor*

Model : Sila rujuk EMAL

Tarikh Tamat: 15.6.2013

Tel: 03-58829511, Faks: 03-58826994

Sime Darby Industrial Power Sdn. Bhd.

(Formely known as Otofin Sdn. Bhd.)



Jenama: **PERKINS (Engine) & LEROY SOMER (Alternator)**

Jenis Barangan: *Generator Set*

Model : PL750, PL800, PL900, PL1000, PL1250, PL1500, PL1700, PL1800 & PL2000

Tarikh Tamat: 15.2.2013

Tel: 03-55691168, Faks: 03-55691200

KELULUSAN BAHAN/BARANGAN

Syarikat Juta Motor Assessori Sdn. Bhd.



Jenama: **JMA**

Jenis Barangan: *Lamp Holder For Fluorescent
luminaires (T5)*

Model : J/T5

Tarikh Tamat: 15.6.2013

Tel: 05-5261890/1889, Faks: 05-5268116

Sirijaya Autotrans Industries Sdn. Bhd.



Jenama: **SJ LITE**

Jenis Barangan: *Ballast For PLC Lamp*

Model : APL 613

Tarikh Tamat: 15.6.2013

Tel: 05-2812788, Faks: 05-2816522

Sirijaya Autotrans Industries Sdn. Bhd.



Jenama: **ATRANS**

Jenis Barangan: *Ballast For PLC Lamp*

Model : APL 613

Tarikh Tamat: 15.6.2013

Tel: 05-2812788, Faks: 05-2816522

United MS Electrical MFG (M) Sdn. Bhd



Jenama: **UMS**

Jenis Barangan: *Wall Fan*

Model : UWF-16 & UWF-16R

Tarikh Tamat: 15.6.2013

Tel: 03-60912626, Faks: 03-60912323

KELULUSAN BAHAN/BARANGAN

Khind-Mistral Industries Sdn. Bhd.



Jenama: **MISTRAL**

Jenis Barangan: *Ventilating Fan*

Model : MVF 101

Tarikh Tamat: 15.6.2013

Tel: 03-32411991 , Faks: 03-32414100

KVC Industrial Supplies Sdn. Bhd.



Jenama: **HYUNDAI**

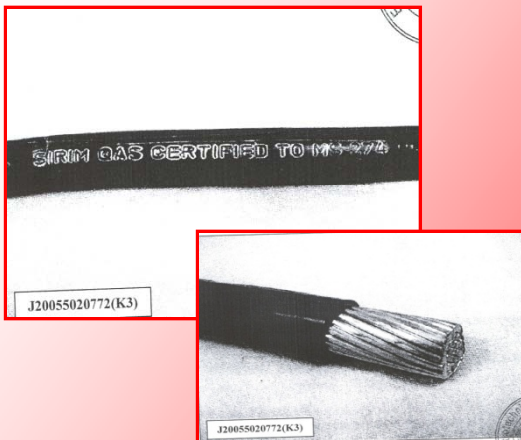
Jenis Barangan: *Moulded Case Circuit Breaker*

Model : UCB 250S, UCB 400R, UCB 400H, UCB
800S, UPB 100S, UPB 250S, UPB 400S
& UPB 630S (3 Poles)

Tarikh Tamat: 15.6.2013

Tel: 03-89252828, Faks: 03-89267815

Universal Cable (Sarawak) Sdn. Bhd.



Jenama: **UCSSB**

Jenis Barangan: *PVC-Insulated Non-Armoured
Cable*

Model : Sila rujuk EMAL

Tarikh Tamat: 15.6.2013

Tel: 082-336151, Faks: 082-336850

Terasaki Electric M) Sdn. Bhd.



Jenama: **TERASAKI**

Jenis Barangan: *Moulded Case Circuit Breaker*

Model : S160-SCF (2 & 3 pole), E250-SF (2 & 3
pole) & E250 SJ (3 pole)

Tarikh Tamat: 15.6.2013

Tel: 03-55493820 , Faks: 03-55493960

KELULUSAN BAHAN/BARANGAN

Syarikat Lan-Ric Industries Sdn. Bhd.



Jenama: LANRIC

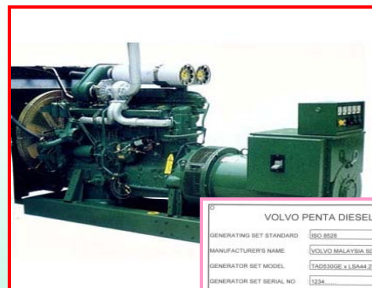
Jenis Barangan: *Cable Management Systems c/w Accessories (Raised floor System)*

Model : Sila rujuk EMAL

Tarikh Tamat: 15. 6.2013

Tel: 05-2822361/362, Faks: 05-2822363

VPM Power Sdn. Bhd.



VOLVO PENTA DIESEL GENERATOR SET			
GENERATING SET STANDARD	ISO 8558	RATED FREQUENCY	50 Hz
MANUFACTURER'S NAME	VOLVO MALAYSIA SDN BHD	RATED VOLTAGE	415 V
GENERATOR SET MODEL	GENERATOR SET SERIAL NO	RATED CURRENT	80.7 A
GENERATOR SET SERIAL NO	100A	RATED P.F.	0.8
RATED POWER KW	60.0 KW	WEIGHT	1100 KG
PERFORMANCE CLASS	G4		
MAX. SITE ALTITUDE	1000 M.A.S.L.		
MAX. AMBIENT TEMPERATURE	40°C		
YEAR OF MANUFACTURE	2007		

Jenama: VOLVO PENTA (Engine), LEROY SOMER & MARELLI (Alternator)

Jenis Barangan: *Generator Set*

Model : Sila rujuk EMAL

Tarikh Tamat: 15. 6. 2013

Tel: 03-51211443, Faks: 03-51211442

Hwa Shih Electric (M) Sdn. Bhd.



Jenama: REGIS

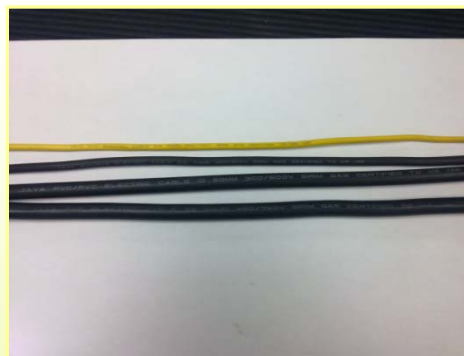
Jenis Barangan: *Moulded Case Circuit Breaker (MCCB)*

Model : Sila rujuk EMAL

Tarikh Tamat: 15. 6.2012

Tel: 03-80232966, Faks: 03-80232523

Jaya Cables Sdn. Bhd.



Jenama: JAYA

Jenis Barangan: *PVC Insulated Cables (Armoured & Non Armoured)*

Model : Sila rujuk EMAL

Tarikh Tamat: 15. 6.2013

Tel: 03-6140 1503 , Faks: 03-6140 1502

KELULUSAN BAHAN/BARANGAN

Eita Technologies (M) Sdn. Bhd.



Jenama: REFAS

Jenis Barangan: Ignitor For HPL)

Model : FCD-G400T2

Tarikh Tamat: 15. 6.2013

Tel: 03-56378363, Faks: 03-56350538

YLI Industry Sdn. Bhd.



Jenama: VOSSLOH-SCHWABE

Jenis Barangan: *Electronic Ballast For Fluorescent Luminares (T5)*

Model : EXLc135.856, EXLc235.857 & EXLc414.868

Tarikh Tamat: 15. 6. 2013

Tel: 05-3665227, Faks: 05-3653227

Primavari Sdn. Bhd.



Jenama: ORO-P

Jenis Barangan: *Electronic Ballast For Fluorescent Luminares (T5)*

Model : DJ214A (2x14w) & DJ228A (2x28w)

Tarikh Tamat: 15. 6.2013

Tel: 03-41086280, Faks: 03-41084280

Vesta Technasco Sdn. Bhd.



Jenama: VESTA

Jenis Barangan: *Electronic Ballast For Fluorescent Luminares (T5)*

Model : SBL-T5282-EUVA (2x28w)

Tarikh Tamat: 15. 6.2013

Tel: 20930033, Faks: 03-20936913

KELULUSAN BAHAN/BARANGAN

Chan Peng Light Fittings Sdn. Bhd.

Jenama: FLUORELITE

Jenis Barangan: *Fluorescent Luminaires*

Model : Sila rujuk EMAL

Tarikh Tamat: 15. 6.2013

Tel: 03-92211578, Faks: 03-92216352

Henikwon Corporation Sdn. Bhd.

Jenama: HENIKWON)

Jenis Barangan: *Busbar Trunking (Busduct System)*

Model : 200A & 400A

Tarikh Tamat: 15. 6. 2013

Tel: 03-90768543, Faks: 03-90768548

Sun Power Automation Sdn. Bhd.



Jenama: LS

Jenis Barangan: *Miniature Circuit Breaker (MCB)*

Model : BKN D6, BKN D10, BKN D16, BKN D20,
BKN D32, BKN D40, BKN D50 & BKN D63

Tarikh Tamat: 15. 6.2013

Tel: 03-61577555, Faks: 03-61577666

SPT Electric Sdn. Bhd.



Jenama: ISKRA ZASCITE

Jenis Barangan: *Surge Protective Devices (SPD)*

Model : PROBLOC BSR 50/320 (3+1)

Tarikh Tamat: 15. 6.2013

Tel: 03-80761859, Faks: 03-80761858

KELULUSAN BAHAN/BARANGAN

Philip Malaysia Sdn. Bhd.



Jenama: PHILIPS

Jenis Barangan: *Street Lantern (LED Luminaires)*

Model : Essential Line BBP110 (160XLED)

Tarikh Tamat: 15. 6.2012

Tel: 03-79657488, Faks: 03-79657622/7623

Timestar Solution Sdn. Bhd.



Jenama: HI-BEAM

Jenis Barangan: *Street Lantern (LED Luminaires)*

Model : UNIST WF-112W-B-PW

Tarikh Tamat: 15. 6. 2012

Tel: 03-90215585, Faks: 03-90215585

Tecsys Product Sdn. Bhd.



Jenama: PHOENIX CONTACT

Jenis Barangan: *Surge Protective Devices (SPD)*

Model : VAL-MS 230/3+1-FM

Tarikh Tamat: 15. 6.2013

Tel: 03-78473113 Faks: 03-78473223

Pawalite (M) Sdn. Bhd.

Jenama: PAWALITE

Jenis Barangan: *Fluorescent Luminaires*

Model : Sila rujuk EMAL

Tarikh Tamat: 15. 6.2013

Tel: 03-80755910 , Faks: 03-80755794

KELULUSAN BAHAN/BARANGAN

Kentritz Corporation Sdn. Bhd.



Jenama: SEA

Jenis Barangan: *11kV Dry Type Distribution Transformer*

Model : TTR-ARR

Tarikh Tamat: 15. 6.2013

Tel: 03-80232881/3748, Faks: 03-80232870

Sun Power Automation Sdn. Bhd.



Jenama: LS METASOL SERIES

Jenis Barangan: *Moulded Case Circuit Breaker (MCCB)*

Model : ABS803c & ABH403c

Tarikh Tamat: 15. 6. 2013

Tel: 03-61577555, Faks: 03-61577666

Panasonic Manufacturing Malaysia Berhad



Jenama: KDK

Jenis Barangan: *Ceiling Fan*

Model : K-15W0-S

Tarikh Tamat: 15. 6.2012

Tel: 03-58915000, Faks: 03-58915108

PEMERIKSAAN KUALITI BAHAN / BARANGAN ELEKTRIK

Kualiti



**Projek: Pem. Elektrik Untuk Cadangan
Pembinaan KK3 (12 Cermai, 5 DCE) &
Kuarters (2D, 8F, 16G) Di Merati, Pasir
Mas, Kelantan.**

Tarikh Pemeriksaan: 12hb. April 2011

**Projek: Pem. Elektrik Untuk Cadangan
Pembinaan Kompleks Pejabat Badan
Pencegah Rasuah, Kota Bharu,
Kelantan.**

Tarikh Pemeriksaan: 13hb. April 2011

**Projek: Pem. Elektrik Untuk (LV),
Tambahan Blok Pentadbiran, Bangunan
Perpustakaan & Kuarters, di Institut
Tanah, Ukur & Pemetaan, Di Behrang,
Tanjung Malim, Perak.**

Tarikh Pemeriksaan: 27hb. April 2011

**Projek: Pem. Elektrik Untuk UiTM,
Pusat Latihan Kg. Gajah, Perak –
Bangunan Asrama, Blok Seminar &
Pentadbiran Dan Dewan Makan.**

Tarikh Pemeriksaan: 25hb. Mei 2011



Posco-Malaysia Sdn. Bhd.
60 & 61, Jalan Sg. Pinang 5/1,
Seksyen 5, Fasa 2A,
Taman Perindustrian Pulau Indah,
42920 pelabuhan Klang,
Selangor.

Tarikh Verifikasi: 13hb. April 2011

Olympic Cable Company Sdn. Bhd.
Lot PT 2126-2131, Jalan PK1,
Taman Perindustrian Krubung,
75250 Melaka.

Tarikh Verifikasi: 19hb. April 2011



May Quality Industries Sdn. Bhd.
TL 48, Jalan 48,
Jalan Sri Tanjung,
Parit Pinang Seribu,
Muar, Johor.

Tarikh Verifikasi: 19hb. April 2011

Melewar Industrial Group Bhd.
Lot 53, Persiaran Selangor,
40200 Shah Alam,
Selangor.

Tarikh Verifikasi: 19hb. Mei 2011



Jaya Makmur Elektrik Sdn. Bhd.
No. 5088, Jalan 18/63,
Taman Sri Serdang,
43300 Seri Kembangan,
Selangor.

Tarikh Verifikasi: 16hb. Mei 2011



Jaya Cable Sdn. Bhd.
No. 12, Lengkok Cumarasami,
Batu 3¼ Off Jalan Ipoh,
51100 Kuala Lumpur.

Tarikh Verifikasi: 26hb. Mei 2011

Ancom Components Sdn. Bhd.
No. 7, Jalan Empat,
Off Jalan Chan Sow Lin,
55200 Kuala Lumpur.

Tarikh Verifikasi: 7hb. Jun 2011



Taiace Engineering Sdn. Bhd.
No. 43A, Jalan Permata 1,
Arab-Malaysian Industrial Park,
71800 Nilai,
Negeri Sembilan.

Tarikh Verifikasi: 14hb. Jun 2011

Conway Terminals Manufacturer Sdn. Bhd.
Lot 1298, Jalan Bukit Kemuning,
42450 Klang,
Selangor.

Tarikh Verifikasi: 16hb. Jun 2011



Central Switchgear Sdn. Bhd.
Lot 9480, Jln. Jinjang Awan 5 (West Road),
Jinjang North Industrial Estate,
Jinjang North,
52000 Kuala Lumpur.

Tarikh Verifikasi: 15hb. Jun 2011

Projek: Pem. Elektrik Untuk Cadangan Pembinaan KK3 (12 Cermi, 5 DCE) & Kuarters (2D, 8F, 16G) Di Merati, Pasir Mas, Kelantan. Tarikh Pemeriksaan: 12hb. April 2011	
	Projek: Pem. Elektrik Untuk Cadangan Pembinaan Kompleks Pejabat Badan Pencegah Rasuah, Kota Bharu, Kelantan. Tarikh Pemeriksaan: 13hb. April 2011
Projek: Pem. Elektrik Untuk (LV), Tambahan Blok Pentadbiran, Bangunan Perpustakaan & Kuarters, di Institut Tanah, Ukur & Pemetaan, Di Behrang, Tanjung Malim, Perak. Tarikh Pemeriksaan: 27hb. April 2011	
	Projek: Pem. Elektrik Untuk UiTM, Pusat Latihan Kg. Gajah, Perak – Bangunan Asrama, Blok Seminar & Pentadbiran Dan Dewan Makan. Tarikh Pemeriksaan: 25hb. Mei 2011

LPS materials and conditions of use

Table 5 - LPS materials and conditions of use						
Material	Use			Corrosion		
	In open air	In earth	In concrete	Resistance	Increased by	May be destroyed by galvanic coupling with
Copper	Solid Stranded	Solid Stranded As coating	Solid Stranded As coating	Good in many environments	Sulphur compounds Organic materials	-
Hot galvanised steel	Solid Stranded	Solid	Solid Stranded	Acceptable in air, in concrete and in benign soil	High chlorides content	Copper
Stainless steel	Solid Stranded	Solid Stranded	Solid Stranded	Good in many environments	High chlorides content	-
Aluminium	Solid Stranded	Unsuitable	Unsuitable	Good in atmospheres containing low concentration of sulphur and chloride	Alkaline solutions	Copper
Lead	Solid As coating	Solid As coating	Unsuitable	Good in atmosphere with high concentration of sulphates	Acid soils	Copper Stainless steel
NOTE 1 This table gives general guidance only. In special circumstances more careful corrosion immunity considerations are required (see Annex E) NOTE 2 Stranded conductors are more vulnerable to corrosion than solid conductors. Stranded conductors are also vulnerable where they enter or exit earth/concrete positions. This is the reason why stranded galvanised steel is not recommended in earth. NOTE 3 Galvanized steel may be corroded in dry soil or moist soil. NOTE 4 Galvanized steel in concrete should not extend into the soil due to possible corrosion of the steel just outside the concrete. NOTE 5 Galvanized steel in contact with reinforcement steel in concrete may, under certain circumstances, cause damage to the concrete. NOTE 6 Use of lead in the earth is often banned or restricted due to environmental concerns.						

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Tazkirah



1hb. April 2011

Tajuk Tazkirah : Tafsir Al-Quran

‘Surah An-Naba’

Penyampai: Tn. Hj. Razali B. Abd. Hamid

22hb. April 2011

Tajuk Tazkirah : Kelebihan Wuduk

Penyampai: En. Mohd. Hanif B. Jamaludin

10hb. Jun 2011

Tajuk Tazkirah : Kedudukan Hati Dalam Diri

Penyampai: Tn. Hj. Razali B. Abd. Hamid

Tazkirah



10hb. Jun 2011

17hb. Jun 2011

**Tajuk Tazkirah : Tafsir Al-Quran
'Surah Al-Isra' –ayat 36
Penyampai: Tn. Hj. Nizar Bin Othman**