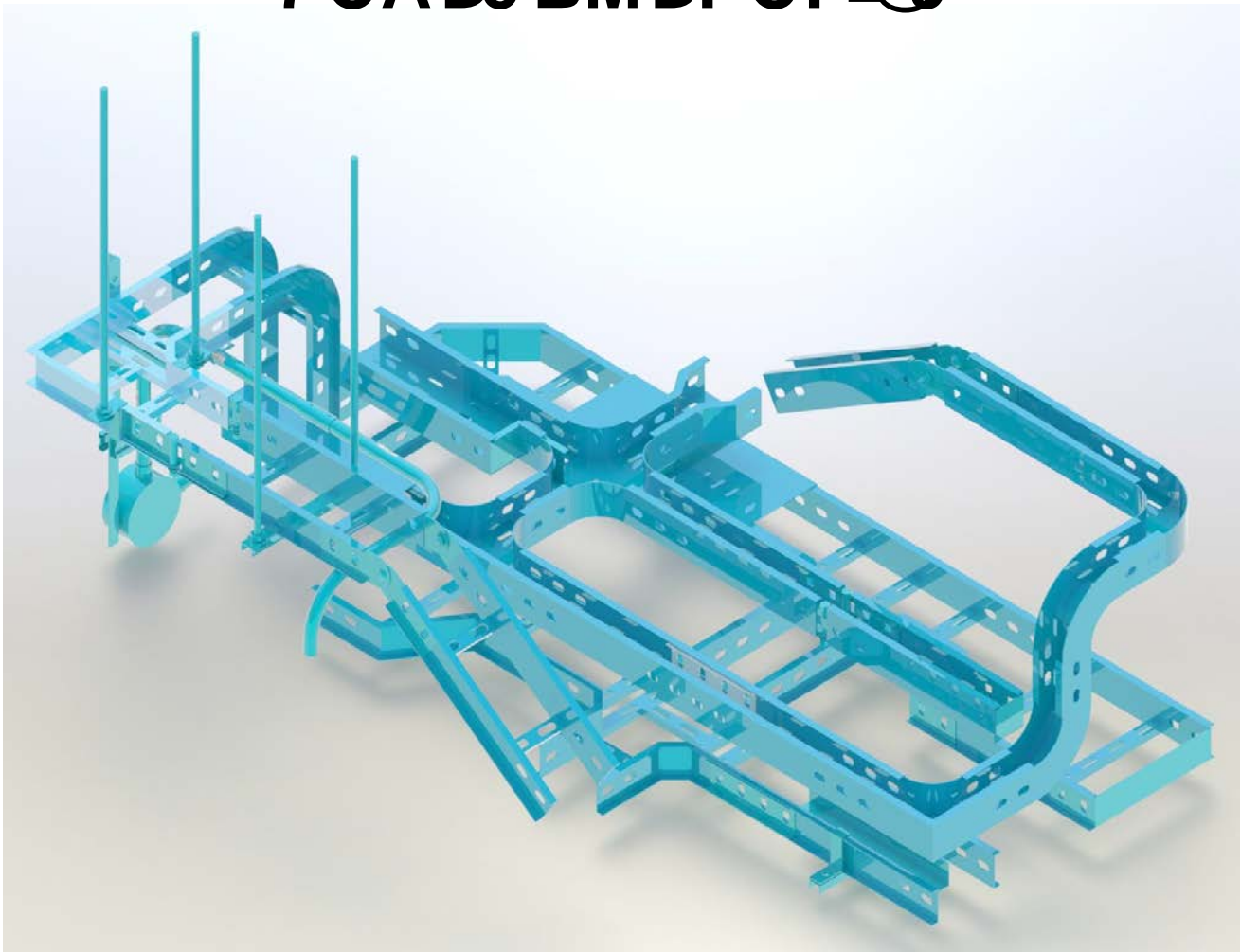




PT. RAHMI IDA NUSANTARA
ELPRO Steel Conduit & Cable Support System Manufacturer



7 CAD5 BMDFC: =@9'



Apartment Project



Fabrication Area



Factory Green Environment



Petrochemical Project



Offshore Project



Cement Industri Project



Power Plant Project



Airport Project



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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



PREQUALIFICATION DOCUMENT ISO 9001 : 2008 CERTIFIED

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7. References
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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



PREQUALIFICATION DOCUMENT **ISO 9001 : 2008 CERTIFIED**

Section 1

Introduction to ELPRO MANUFACTURING and **SERVICES CENTRE (INDONESIA)**

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Factory environment pictures



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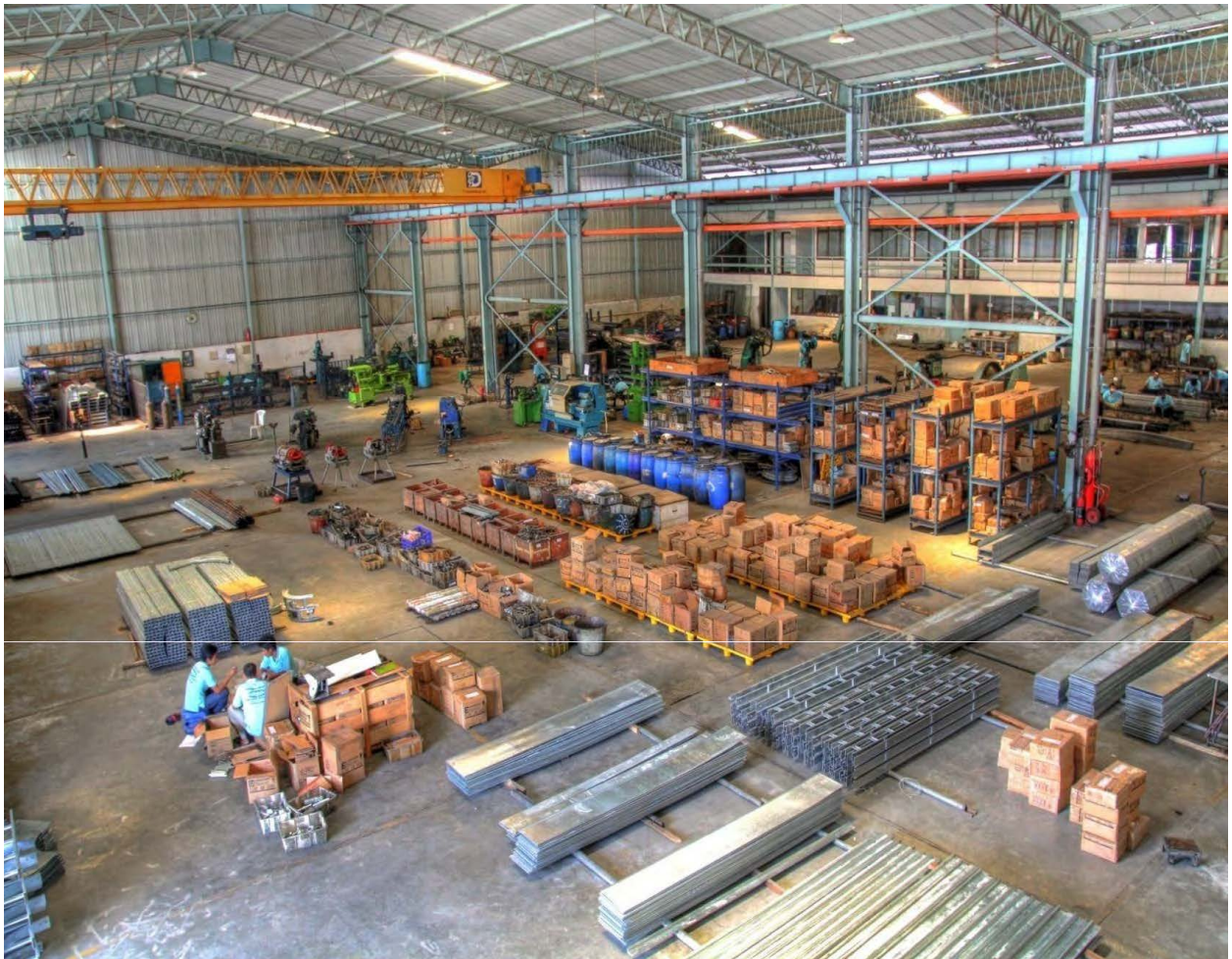
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Factory Logistic Department



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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



INTRODUCTION TO ELPRO SERVICE CENTRE (INDONESIA)

PT. RAHMI IDA NUSANTARA was established as a registered manufacturing company in 1996. specialized in electrical installation product, the product is diversified from the Steel Conduit Systems & Accessories, Cable Support Systems, Raceways Systems, Pipe Support Systems and Under Floor Duct Systems. All Products was patented and registered with a familiar brand name ELPRO.

Since 2002 all of PT. RAHMI IDA NUSANTARA product marketed in Indonesia by PT. RAHMI IDA NUSANTARA and PT. RAHMI IDA NUSANTARA for ASEAN Region.

ELPRO is committed to be the best and specialist in the metal electrical product industry. Elpro has adopted the philosophy of "Continuous Improvement" and "Zero Defect" in order to meet this goal.

This mean on-going reviews of our manufacturing process, operating procedures and quality systems to find ways of improving efficiency, productivity, and quality. As well as establishing process controls and problem prevention techniques to ensure that superior quality is built into ELPRO product.

We manufactured products at PT. RAHMI IDA NUSANTARA in Indonesia and only PT. RAHMI IDA NUSANTARA from PT. RAHMI IDA NUSANTARA in Semarang City. And our plant is designed to meet the stringent quality management requirements of ISO 9001-2008, and OHSAS 18001 - 2007. At ELPRO quality is number one. Our drive to be the best includes quality products, on time delivery, and resolution of customer needs and concern.

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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



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ELPRO manufacture a complete range of electrical cable support systems and pipe conduit systems. All our products are manufactured as per NEMA, ANSI, JIS, BS, PLN, And, Pertamina Standards.

Electrical support systems range from the very light for computer cables to the large Current carrying power cables used in heavy industrial sites to Hazardous area.

Mechanical supports systems are also used in major industrial sites to support pipes, bracketing etc. and on commercial buildings to support facades, under floor computer systems etc.

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These are suitable for laying cable in exposed area. Sizes range from 50mm wide and 2.4-6.0 metres in length. Materials used are hot dipped galvanized steel, Aluminium, Stainless Steel, Epoxy painted steel or FRP fiberglass.

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Cable Duct is used to protect very sensitive circuits. Some engineers and designers specify Cable Duct (often with covers) in the belief that all electrical circuits have to be totally enclosed by metal. Our cable duct is made of Aluminium, Stainless Steel, Epoxy Painted steel, FRP fiberglass, hot dipped galvanization.

7UVY`UXXYfg`cf`FUW Ibl` "

These ladders carry large cables with high power capacity & can be used on all major industrial sites. Ladders come in various strengths depending on the loading capacity in either 3 or 6 metre lengths. Material used are Steel, Hot dipped galvanized, Aluminium, Stainless Steel, Epoxy painted steel or FRP fiberglass.

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We have 3 types of conduit systems ; Threadless conduit systems, Thickwall conduit systems, Rigid steel conduit systems. We assure that our conduit systems are easy to bend, to cut, and to join. They are made from Aluminium, Steel, Stainless Steel, Hot dipped galvanization.

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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



Explosion proof junction boxes

This explosion proof junction boxes are used to supply needs in hazardous areas.

Our explosion proof junction boxes certified with FM, ATEX, IECEx

Water based coating material

We protect the cable with water based coating material. Our coating can increase fire rated cable up to 1150° C for 90 minute. We guarantee while the cable been attacked with fire the cable still works. Our products have been tested and approved by the worlds leading international classification societies and authorities such as ABS, DNV, Lloyd, FM, US COAST GUARD, and UL.

Factory location

Our factory is located at Semarang city in Indonesia. We are only 5 km from Tanjung Mas Port.

A new factory was completed in year 2000. the production area has 5,000 meters of covered workshop. The factory is committed solely for the manufacture of Cable support systems & Steel conduit pipe systems.

Semarang city located at the central Java Island. Distance from Semarang – Jakarta only 475 km to west and 325 km to east to reach Surabaya City. Semarang is passed by Pantura Road which connected Sumatera – Jawa – Bali. This location bring advantage for our delivery services.

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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



ELPRO PRODUCTS AVAILABLE

ALL ISO CERTIFIED

1) STEEL CONDUIT SYSTEMS, THICKWALL CONDUIT SYSTEMS, RIGID STEEL CONDUIT SYSTEMS, MANUFACTURED TO YOUR OWN DESIGN

CABLE LADDERS, CABLE TRAYS, ALL ACCESSORIES, GRATING & STRAITREAD, HANDRAIL & CAGED LADDER SYSTEMS, STRUCTURAL SUPPORT SYSTEMS.

2) ALUMINIUM COPPER FREE, STAINLESS STEEL, MANUFACTURED TO YOUR OWN DESIGN

THREADLESS CONDUIT SYSTEMS, THICKWALL CONDUIT SYSTEMS, RIGID STEEL CONDUIT SYSTEMS, MANUFACTURED TO YOUR OWN DESIGN

3) CABLE COATING & JACKET REPAIR OF ELECTRICAL CABLES - COOPERATED WITH FIRE SECURITY FROM NORWAYGIA

CABLE LADDERS, CABLE TRAYS, ALL ACCESSORIES, GRATING & STRAITREAD, HANDRAIL & CAGED LADDER SYSTEMS, STRUCTURAL SUPPORT SYSTEMS.

4) STEEL CONDUIT SYSTEMS, THICKWALL CONDUIT SYSTEMS, RIGID STEEL CONDUIT SYSTEMS, MANUFACTURED TO YOUR OWN DESIGN

MANUFACTURED TO YOUR OWN DESIGN.

5) CABLE COATING & JACKET REPAIR OF ELECTRICAL CABLES - COOPERATED WITH FIRE SECURITY FROM NORWAYGIA

CABLE COATING & JACKET REPAIR OF ELECTRICAL CABLES - COOPERATED WITH FIRE SECURITY FROM NORWAYGIA

6) ALUMINIUM COPPER FREE, STAINLESS STEEL, MANUFACTURED TO YOUR OWN DESIGN

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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



+ " A97 < 5 B 7 5 @ D 9 ' G I D D C F H G 2 B G H F I A 9 B H ' G H 5 B 7 < - C B G 2 D I @ @ 6 C L 9 G 2 5 B 8 ' @ < H B ; ' D C @ G "

MANUFACTURED TO YOUR OWN DESIGN

, " G H F I 7 H I F 5 @ A 9 7 < 5 B 7 5 @ G I D D C F H A 5 H 9 F 5 @ "

PIPE, ANGLE & FLAT BAR, C-CHANNEL, PLATE, H-BEAM.

- " 5 G < ' < 5 B 8 @ B ; ' G M G H 9 A "

COOPERATED WITH HWA JANN ENTERPRISE. Co., Ltd FROM TAIWAN

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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



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- | | |
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Email : nusantara.redi@elprosteel.com |
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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



PREQUALIFICATION DOCUMENT ISO 9001 : 2008 CERTIFIED

Section 2

Prequalification Questionnaire

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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



PT. RAHMI IDA NUSANTARA

1.1 Full Legal Title of Supplier

PT. RAHMI IDA NUSANTARA

PT. RAHMI IDA NUSANTARA

PT. RAHMI IDA NUSANTARA

PT. RAHMI IDA NUSANTARA

1.2 Legal status of supplier

PT. RAHMI IDA NUSANTARA

1.3 Registered Office and/or legal address

Jl. MH. Thamrin

Jl. MH. Thamrin

Plaza Amsterdam B-50

Sentul City – Bogor- 16810

Indonesia

Telephone Number : (+62-21) 8796 2255-59

Facsimile Number : (+62-21) 8879 62256

Contact (Indonesia speaking) : Dian Ismanto

Position : Jakarta Sales Manager

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E-mail : sales.jkt@elprosteel.com

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Ruko Surya Inti Permata Blok E36 - 37

Surabaya- 60237

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Telephone Number : (+62-31) 8430 999

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8 Eu Tong Sen Street, #22-28

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Telephone Number : (+65) 6222 9919

Facsimile Number : (+65) 6222 9909

Contact (English speaking) : Roger

Position : Branch Manager

&' 57 HJ +H9 G

2.1 Main Activities of Supplier

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GhYYk cf _`ZUV]WU]cb`E`-bgfci a YbhUbX`9`YWF]WU`ghUbXg`

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9`dfc`gfci hUbX`Z]h]b[g`

: FD`7 UV`Y`@UXXYfg/` `Hf Ung`

G] YYha YU`ZUV]WU]cb`cZWUV`Y`Hf Ung#UXXYf#Xi W#k]fY`k Uri

57 HJ 9 :]fY`DfchWU]cb`GmghYa `Zca `; 9 FA 5 BM

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BCFK 5 M`UbX`; 9 FA 5 BM

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INDONESIA

PH (+62 21) 8796 2255-59; FAX (+62 21) 8796 2256

STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



2.2 Main items manufactured by Supplier

6 i ` _ 'A UHYfJU`

GhYY`7 cbXi JhfbhYY žU i a]b]i a žghU]b`Ygg`ghYYŁ

7 UV`YHfUng`fbhYY žU i a]b]i a žghU]b`Ygg`ghYYŁ

7 UV`Y`@XXYf`fbhYY žU i a]b]i a žghU]b`Ygg`ghYYŁ

7 UV`Y`8 i WfbhYY žU i a]b]i a žghU]b`Ygg`ghYYŁ

: FD`7 UV`Y`UXXYfg/`fUng`

Gfi h/`Gfi hZ]h]b[g`

A YW Ub]WU`/`9`YWf]WU`gi ddcfng`

2.3 Major works completed by Supplier

HcHU` : =B5`=bXcbYg]Y`; fci d`f6 U]_dUdUbŁ

DYf c_]a]Uf] fYg]_Ł

HUb1 b[`>U]`6`Dck Yf`D`Ubhf}YdUFUŁ

HUb1 b[`Df]c_`E`Dck Yf`D`Ubhf}U_UfHUŁ

DU]tc b` =E`Dck Yf`D`Ubhf} Ugh>Uj UŁ

? U]ja `Df]a U7 cU`; fci d`fGUb[UHUŁ

@B; `6 UXU_`f6 cbHUb[Ł

G]bUF`A Ug; fci d`E`DI @D/`D5 D9 F`@B; `H5 B; ; I <`fDUdi UŁ

: F99`DCFH`fDUdi UŁ

7\ Yj fcb; fci d`fB i a U]Ł

GUa dcYfbU; fci d`E`7][UfYHY`

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FCDD'6 Ucb[Ub'È'DYfHLa]bUf7]fYVcbL

FCDD'Gi a VU[gY'È'DYfHLa]bUfGi a UHfUL

2.4 Provide details of workshop facilities owned and used by Supplier.

Including size and location of workshops, types, and capacities of machines.

- Main Factory : %\$\$\$`gei UfY'a YHfg`
- Building :) \$\$\$`gei UfY'a YHfg`
- Office : &`glcfm`
- Capacity/Month : &\$\$`lcb#`a cbH g`f] \$i `WUV`YfUm`&\$i `Wc`bXi]H
- Machinery : %; f]bX]b[`A UW]bY`
 - ``&`HUV`Y; f]bX`
 - ``+`@H`Y`A`UW`]bY`
 - ``i`'8`f]``A`UW`]bY`
 - ``%`%9`Y`Wf]Wk`Y`X`
 - ``&`<`c`]gh7`f`UbY`
 - ``%`HUV`Y`8`f]``A`UW`]bY`
 - ``+`<`UbX`Di`bW`
 - ``&`Df`Ygg`<`nXf`U``]W`
 - ``&`Df`Ygg`A`Ubi`U`
 - ``%`Hf`Um`Df`Ygg`
 - ``i`Di```A`U`
 - ``%`Gdch`K`Y`X`

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-
-
-
-
-

2.5 List areas of work which Suppliers would normally subcontract to other

-
-
-

2.6 Market Geography which Supplier supply

5`c j Yf`bXcbYg]UUbX`5 G9 5 B`7 ci blfm

2.7 Market Segmentation which Supplier usually supply

C=@; 5 GZDYf cW Ya]WJZDck Yf`D`UblZGYU DcflZ5]f`DcflZA]b]b[Z: UWcfmiz
7 ca a YfWU`YHW

2.8 Customer References in Region

; YbYfU`9`YWF]WGi dd`m5 g]UÈ`G]b[UdcfY
: YXYfU` \ UFXk UfY`9 b[]bYYf]b[`7 ca dUbmiÈG]b[UdcfY
⇒ DHÈ`>U`UFHJ

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F9 ? 5 M5 G5 :-B8 I GHF ÷ È > U_UfHJ

H< 9 GG :-B8 CB9 G-5 È > U_UfHJ

GjYa Ybg È > U_UfHJ

AWKYfa cHi È 6 UfUa

<k UU>Ubb'9b[]bYYf]b['7 ca dUbm@H È HUjk Ub'

:]fY'GYW f]m@H È Bcfk Um

A]b]a U È ; Yfa Ubm

' " KCF? @58'

3.1 State Contractors financial turnover/estimated turnover:

MYUf'&\$\$* 'I G8 ~ ('A]`]'cb'

MYUf'&\$\$+'I G8 ~ (ž 'A]`]'cb'

MYUf'&\$\$, 'I G8 ~ ') 'A]`]'cb'

3.2 Full time employees: (Total number averages for last 3 years)

8 YgW]dh]cb'	HcHJ'Bi a VYf'	9I dYf]YbW'
A UbU[Ya Ybh	(\$'dYfgcbg'	% 'mYUfg'
Ei U]mi	* 'dYfgcbg'	% 'mYUfg'
GUyg/ 'A Uf_Yh]b['	&)'dYfgcbg'	% 'mYUfg'
DfcXi W]cb'fbc'b'k YX]b[Ł	%) \$'dYfgcbg'	%!%) 'mYUfg'
9 b[]bYYf]b[') 'dYfgcbg'	% 'mYUfg'
DfcW fYa Ybh) 'dYfgcbg'	% 'mYUfg'
GW YXi `]b['	' 'dYfgcb'	% 'mYUfg'

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K YX]b[' .	%&'dYfgcbg'	%)'mYUfg'
CH Yf'	&\$'dYfgcbg'	&\$'mYUfg'

(" HMD9 'C: ' : 57 =@HM

A5BI : 57HI F=B; ' .

9B; =B99F=B; ' .

F9G95F7 < / ' 89J9 @CDA9BH

=B' < CI G9 'H9GH=B; ' .

K 5F9 < CI G9 / ' 8 =GHF =6I H=CB'

5 GG9A6 @M

: =B=G< =B; ' .

) " 9EI =DA9BH#A5H9F=5 @HF5BGDCFH5H=CB'

5.1 Give the details Supplier's domestic packing, shipping, and handling capabilities (include weight and dimensional limitations):

K %' \$\$\$a a 'l' < &\$\$\$a a 'l' * \$\$\$a a '#DUW_]b['fWUdUV']h]Yg]g\] [\ Yf'Ug'h YWUbY]g' \ Uj]b[') 'fcbg'7 UdUW]mVi h]h]g'h Ya U 'g]nY'h UhUfYUXmg\]ddYX'dfYj]ci g'nt'

AU]a i a 'K Y] [\ h%' \$\$\$ _ ['#dUW_]b[' .

G\]dd]b[]g'W g'ca]nYX'

* " EI 5 @HM5B8 '7CAAI B=75H=CB'

6.1 How does Supplier organization track and document activities from order entry through manufacturing and shipping ?

=h]g' Yl d'U]bYX' cb' ei U]m a Ubi U' UbX' d'YUgY' W YW' ci f' fdfcXi W]cb' gYf]U' bi a VYf'U'UbX'f'ei c]U]cb'bi a VYf'U'

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6.2 How does Supplier organization ensure required drawings and data are accurate, legible, and submitted in accordance to project requirements?

K Y \ Uj Y'ci f'FYgYUfW / '8 Yj Y'cda Ybh8 YdUfha Ybžgc'U''XfUk]b['a i gh'VY' Uddfcj YX' Vm F/ 8 ' a UbU[Yf' VYZ'fY' k Y' dfcWYX' hc' dfcXi WY'' GHLa d' k]h' Uddfcj YX'žf'W'bgfi W]cb''

6.3 How does Supplier organization inform your customers of a problem?

K \ Yb'k Y'gi Va]hgcZiXfUk]b[žž'fa U''YhYf'UbX'hY'Wt'a a i b]WU]cb'

6.4 How does Supplier control sub – tier suppliers?

K Y'Uk Ung'Xc'E7 'VYZ'fY'k Y'fYW]j YX'h Y[ccXg'

+'' : B5 B7 -5 @

7.1 Full Legal Title of Supplier.

DH''FU a]'XUBi gUbHUFU

7.2 Date of formation of Supplier

: YVfi Ufm\$\$\$&

7.3 Has supplier traded continuously and without interruption since formation?

M9G'



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7.4 Give the full name and address of all suppliers bankers/financiers.

6 Ub 'FYZfYbWg'

Contact Name : 8 5 B 5 A C B ' 6 5 B ? '
Address : >`"F U n U D U U U f U b z ? c a d `Y _ ' F i _ c ` K U f i b [` > U a V i z
6 c [c f ` E ` b X c b Y g] U
Phone/Fax : f Z * & ! &) % k , ' & & & & (' .

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PREQUALIFICATION DOCUMENT ISO 9001 : 2008 CERTIFIED

Section 3

Quality Control Forms

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PT. RAHMI IDA NUSANTARA
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	Tanggal Berlaku :
	Status Revisi :

Disusun Oleh <i>Prepared by</i>	Diperiksa Oleh <i>Checked by</i>	Disahkan Oleh <i>Approved by</i>
MANAGEMENT REPRESENTATIVE	MANAGEMENT REPRESENTATIVE	DIREKTUR UTAMA

1. PENDAHULUAN

Manual ini menjelaskan secara garis besar Sistem Manajemen Mutu PT. RAHMI IDA NUSANTARA SEMARANG. Semua ketentuan/persyaratan serta kebijakan yang tertuang dalam manual ini merupakan acuan untuk menjalankan kegiatan operasional perusahaan.

INTRODUCTION

This manual contains The Quality Management Systems PT. RAHMI IDA NUSANTARA Semarang. All of the requirements and policies contained in this manual is a reference to run the company's operational activities.

2. PROFIL PERUSAHAAN

Sejarah PT. Rahmi Ida Nusantara, tidak bisa lepas dari sejarah PT. Dhemar Nusantara yang merupakan Perusahaan Swasta Nasional yang berdiri pada tahun 1994. Pada tahun 1987, berawal dari permintaan sebuah perusahaan distributor peralatan listrik, yaitu Guna Elektro yang memesan beberapa peralatan listrik seperti junction box. Usaha ini dilakukan di rumah dengan menggunakan peralatan/mesin yang sederhana, didukung oleh beberapa tenaga kerja dan hanya melayani pesanan dalam jumlah kecil. Selain dilakukan di rumah, proses pembuatan tersebut juga dilakukan di workshop - pabrik tahu "Bintang Timur" yang berlokasi di daerah Gubug – Purwodadi. Pekerjaan pembuatan peralatan listrik tersebut merupakan kegiatan sampingan di workshop. Pada tahun 1997, pabrik dipindahkan ke Jl. Merak No. 2 Semarang 50174 Jawa Tengah, yang berfungsi sebagai pabrik dan kantor pusat. Sedangkan untuk memasarkan produknya, ditunjuk kantor pemasaran yang beralamat di Jl. Mangga No. 24 Kepa Duri E/136 Tanjung Duren, Jakarta Barat. Berikutnya pada bulan Juni 2000 PT. Dhemar Nusantara membuka kantor pemasaran di Plaza Surabaya, Ruko Blok C No. 7 Lt. 3-4, Jl. Pemuda 33-37, Surabaya. Pada bulan Maret tahun 2001 PT. Dhemar Nusantara menggunakan pabrik dan kantor baru di Kawasan Industri Terboyo Blok M 111 Semarang, telepon (62-24) 6590555 dan fax (62-24) 6590565. Untuk pemasaran produk didirikan PT. Rahmi Ida Nusantara, yang memiliki kantor pusat di Plaza Niaga I Blok D/5 Bukit Sentul Bogor 16810, yang juga telah membuka kantor cabang di Jl. Jemur Andayani No. 50, Ruko Suryainti Permata Blok E 36-37 Surabaya 60237 dan di luar negeri yakni di Singapura, yang beralamat di 47 Beach Road #02-03 Kheng Chiu Building Singapore 189683, sehingga semakin memperluas jaringan pasar yang ada. Pada perkembangan selanjutnya, pada tahun 2010, PT. Dhemar Nusantara dan PT. Rahmi Ida Nusantara dilebur dengan memakai nama PT. Rahmi Ida Nusantara yang diikuti dengan pergantian logo perusahaan. Susunan Komisaris dan Dewan Direksi PT. Rahmi Ida Nusantara berdasarkan Akta Pendirian No. 1, Notaris Djonny Priatko SH, tanggal 3 Januari 2002, adalah sebagai berikut :

- Komisaris : Rahmi Ida Nusantara
- Direktur : Hernilam Nusantara

Manual Sistem Mutu ini merupakan **Dokumen Terkendali** yang tidak diperkenankan digandakan dalam bentuk apapun juga tanpa ijin dari **Management Representative** PT. RAHMI IDA NUSANTARA.

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PT. RAHMI IDA NUSANTARA
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PT. Rahmi Ida Nusantara memiliki merk dagang "ELPRO" untuk pemasaran dalam negeri dan menggunakan merk dagang "ELPROSTEEL" untuk pemasaran luar negeri seperti Australia, Singapura, dll. Pemasaran produk PT. Rahmi Ida Nusantara telah mencapai wilayah Sumatera, Jawa, Kalimantan, dan Ambon, yang akan terus diperluas hingga daerah-daerah lainnya.

PT. Rahmi Ida Nusantara telah menerima pengakuan sebagai perusahaan dengan standar internasional ISO 9002 dari Badan Sertifikasi Quality Assurance Service, Australia dengan nomor sertifikat QEC 12498 dalam bidang Manufacturing and Trading of Steel Electrical Conduit System and Cable Support For Industry, Industrial Buildings, Multi Stories Buildings, Offsite Facilities, and Special Construction.

Fasilitas produksi :

- a. Perusahaan memiliki fasilitas produksi yang terintegrasi dengan sangat lengkap yang terbagi menjadi beberapa divisi.
- b. Fasilitas produksi utama yang terdiri dari 46 mesin, terdiri dari beberapa mesin hidrolis, mesin bubut, mesin tekuk, mesin punch, mesin potong, dan mesin las.
- c. Fasilitas produksi sekunder yang terdiri dari mesin scrub, mesin bubut, dan mesin grinding.

COMPANY PROFILE

The history of PT. Rahmi Ida Nusantara, can not be separated from the history of PT. Dhemar Nusantara which is a national private company that was founded in 1994. In 1987, started from a request of a distributor company of electrical equipment, namely Guna Elektro which ordered some electrical equipment such as junction boxes. This business is conducted at home using simple equipment/machinery, supported by some labor and serve only small quantities order Beside done at home, the process is also done at the workshop – "Bintang Timur" tahu plant located in Gubug – Purwodadi. These electrical equipment manufacturing jobs is a sideline activity in the workshop. In 1997, the factory moved to Jl Merak No.. 2 Semarang 50174, Central Java, which serves as a factory and headquarters. While for marketing the products, appointed marketing office which located at Jl. Mangga No. 24 Kepa Duri E/136 Tanjung Duren, West Jakarta. Next in June 2000 PT. Dhemar Nusantara opened a marketing office in the Plaza Surabaya Blok C, No. 7 fl. 3-4, Jl. Pemuda 33-37, Surabaya. In March of 2001 PT. Dhemar Nusantara using a new factory and offices in Terboyo Industrial Park #M111, Semarang, telephone (62-24) 6590555 and fax (62-24) 6590565. In order to market established PT. Rahmi Ida Nusantara, which has its headquarters in the Plaza Niaga I #D/5 Bukit Sentul Bogor 16810, and also has opened a branch office on Jl. Jemur Andayani No. 50, Suryainti Permata #E 36-37 Surabaya 60237 and abroad in Singapore, which is located at 47 Beach Road #02-03 Kheng Chiu Building Singapore 189683, which more expanding the existing market network. In further growths, in 2010, PT. Dhemar Nusantara and PT. Rahmi Ida Nusantara merged with the name of PT. Rahmi Ida Nusantara which is followed by the turn of the company logo. Board of Commissioners and the Board of Directors PT. Rahmi Ida Nusantara under the Deed of Establishment No. 1, a Notary Djonny Priatko, dated January 3, 2002, are as follows :

- Commissioner : Rahmi Ida Nusantara
- Director : Hernilam Nusantara

PT. Rahmi Ida Nusantara has a trademark "ELPRO" for domestic marketing and use the trademarks "ELPROSTEEL" for marketing overseas such as Australia, Singapore, etc. The product of PT. Rahmi Ida Nusantara has reached the region of Sumatra, Java, Kalimantan, and Ambon which will continue to be expanded to other areas.

PT. Rahmi Ida Nusantara has received recognition as a company with international standard ISO 9002 Certification from Quality Assurance Agency Services, Australia with QEC certificate number 12498 in the field of Manufacturing and Trading of Steel Electrical Conduit and Cable Support System For Industry, Industrial Buildings, Multi Stories Buildings, Offsite Facilities, and Special Construction.

Production facilities :

- a. *The Company owns an integrated and comprehensive production facility which is divided into several divisions.*
- b. *The main production facilities consist of 46 machines, comprised of several hydraulic machines, lathes machines, bending machines, punch machines, cutting machines, and welded machines*
- c. *The secondary production facilities consist of scrub machines and grinding machines.*

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3. VISI

VISION

- a. Menjadi perusahaan inovatif dalam bidang electrical product
Being an innovative company in the field of electrical products.
- b. Meningkatkan omset penjualan dengan menjadikan perusahaan yang terbaik dibidangnya
Increase sales turnover by making the company to be the best in their field.
- c. Menguasai segmen pasar menengah ke atas
Mastering the middle to upper market segments.

4. MISI

MISSION

- a. Menciptakan inovasi tiada henti
Creating relentless innovation
- b. Memberikan pelayanan yang baik kepada pelanggan
Providing good service to customer
- c. Menyediakan produk yang berkualitas kepada pelanggan
Providing quality products to customer
- d. Tepat waktu dalam mengirimkan barang kepada pelanggan
Timely in sending goods to customer
- e. Memberikan harga yang sesuai kepada pelanggan
Provide appropriate prices to customer

5. KEBIJAKAN MUTU

PT. Rahmi Ida Nusantara selalu meningkatkan mutu proses untuk menghasilkan PRODUK DENGAN CEPAT, BERMUTU DAN HARGA BERSAING dengan tujuan MEMENUHI KEPUASAN PELANGGAN melalui PERBAIKAN YANG BERKESINAMBUNGAN.

QUALITY POLICY

PT. Rahmi Ida Nusantara always improve the quality of processes to produce QUICKLY, HIGH QUALITY, AND COMPETITIVE PRICE PRODUCTS with the aim to MEET CUSTOMER SATISFACTION through CONTINUOUS IMPROVEMENTS.

6. BUDAYA PERUSAHAAN

CORPORATE CULTURE

- PROFESIONAL** : Memahami tuntutan pekerjaan dan meningkatkan pengetahuan dan keterampilan secara dinamis.
- PROFESSIONAL* : *Understanding the demand of works and enhancing knowledge and skills dynamically.*
- TANGGUNG JAWAB** : Menjalankan pekerjaan secara konsekuen dengan sepenuh hati.
- RESPONSIBLE* : *Carry out the works consequently and whole-heartedly.*
- SADAR MUTU** : Sejak awal mencegah terjadinya ketidaksesuaian.
- AWARE WITH QUALITY* : *Prevent the nonconformities since early.*
- SADAR WAKTU** : Melaksanakan setiap tindakan sesuai komitmen waktu yang telah direncanakan.
- AWARE WITH TIME* : *Take any measures in accordance commitment of time that has been planed*
- SADAR BIAYA** : Efisiensi dalam setiap tindakan kerja.
- AWARE WITH COSTS* : *Efficiency in any work actions.*

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INISIATIF : Melakukan tindakan pencegahan, pengendalian, dan perbaikan secara terus-menerus tanpa menunggu perintah.

INITIATIVE : *Take any measures to prevent, control, and continuous improvement without ruled.*

7. LINGKUP APLIKASI

Manual Sistem Manajemen Mutu ini digunakan pada semua fungsi di lingkungan PT. RAHMI IDA NUSANTARA. Tidak ada perkecualian dalam klausul ISO 9001:2008. Acuan standar yang ditetapkan dan diterapkan PT. Rahmi Ida Nusantara adalah mengacu pada standar JIS, ANSI dan NEMA. Soft copy dari dokumen-dokumen berikut ini termasuk dokumen yang dikendalikan :

- Cash Flow (F.0001 - 05)
- Quote Number (F.0301 - 01)
- Permintaan Pembelian (F.0402 - 02)
- Kartu Stock Bahan Baku (F.0601 - RM.017.02)
- Kartu Stock BDP Siap Finishing (F.0601 - RM.017.03)
- Kartu Stock Barang Jadi (F.0602 - RM.017.02)
- Surat Perintah Produksi Internal (F.0901 - 02)
- Realisasi Produksi Mingguan (F.0901 - 05)

SCOPE

This Quality Management System Manual was used in all functions in PT. RAHMI IDA NUSANTARA. There are no exceptions in the clause of ISO 9001:2008. Reference standards established and implemented in PT. Rahmi Ida Nusantara is based on JIS, ANSI, and NEMA standards. Soft copies of these following documents including documents that controlled :

- Cash Flow (F.0001 - 05)
- Quote Number (F.0301 - 01)
- Purchase Requests (F.0402 - 02)
- Stock Card for Raw Material (F.0601 - RM.017.02)
- Stock Card for
- Stock Card for Finished Product (F.0602 - RM.017.02)
- Internal Production Order Letters (F.0901 - 02)
- Actual Production Weekly (F.0901 - 05)

8. TUJUAN

Penerapan Sistem Manajemen Mutu dimaksudkan untuk memastikan tercapainya komitmen mutu, sasaran mutu, serta kepuasan pelanggan sehingga tujuan perusahaan secara keseluruhan dapat tercapai.

PURPOSE

Application of Quality Management System is intended to ensure the achievement of quality commitment, quality objectives, as well as customer satisfaction, so overall corporate goals can be achieved.

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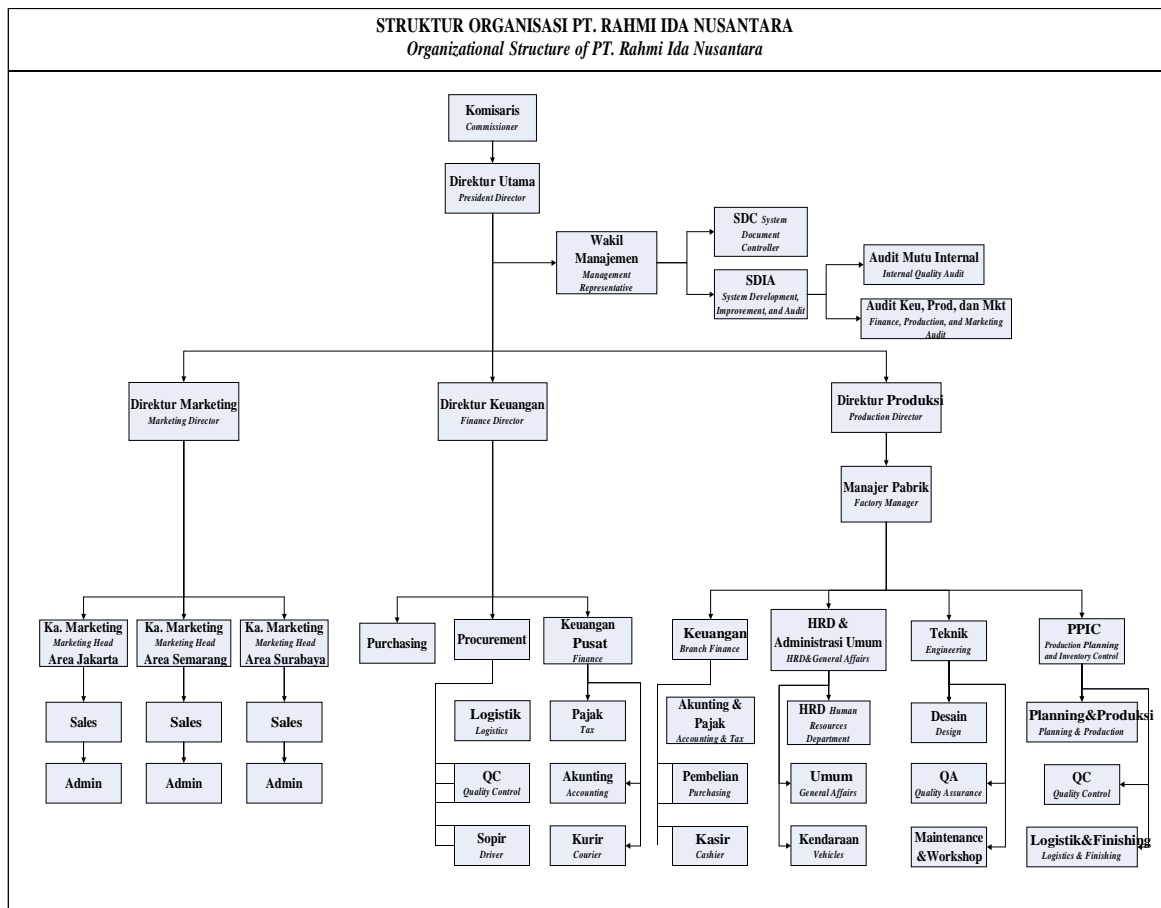
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9. STRUKTUR ORGANISASI
ORGANIZATIONAL STRUCTURE



10. SASARAN MUTU
QUALITY OBJECTIVES

Top Management telah menetapkan sasaran mutu PT. Rahmi Ida Nusantara yang terdiri dari :
Top Management has set the quality objectives of PT. Rahmi Ida Nusantara consisting of :

- a. Meningkatkan omset penjualan sebesar 100% di tahun 2010.
Increase sales turnover up to 100% in 2010.
- b. Menurunkan tingkat komplain pelanggan sebesar 75% di tahun 2010.
Lowering the level of complaints from customers by 75% in 2010.
- c. Menurunkan jumlah non conformance product sebesar 75% di tahun 2010.
Lowering the non-conformance product for 75% in 2010.

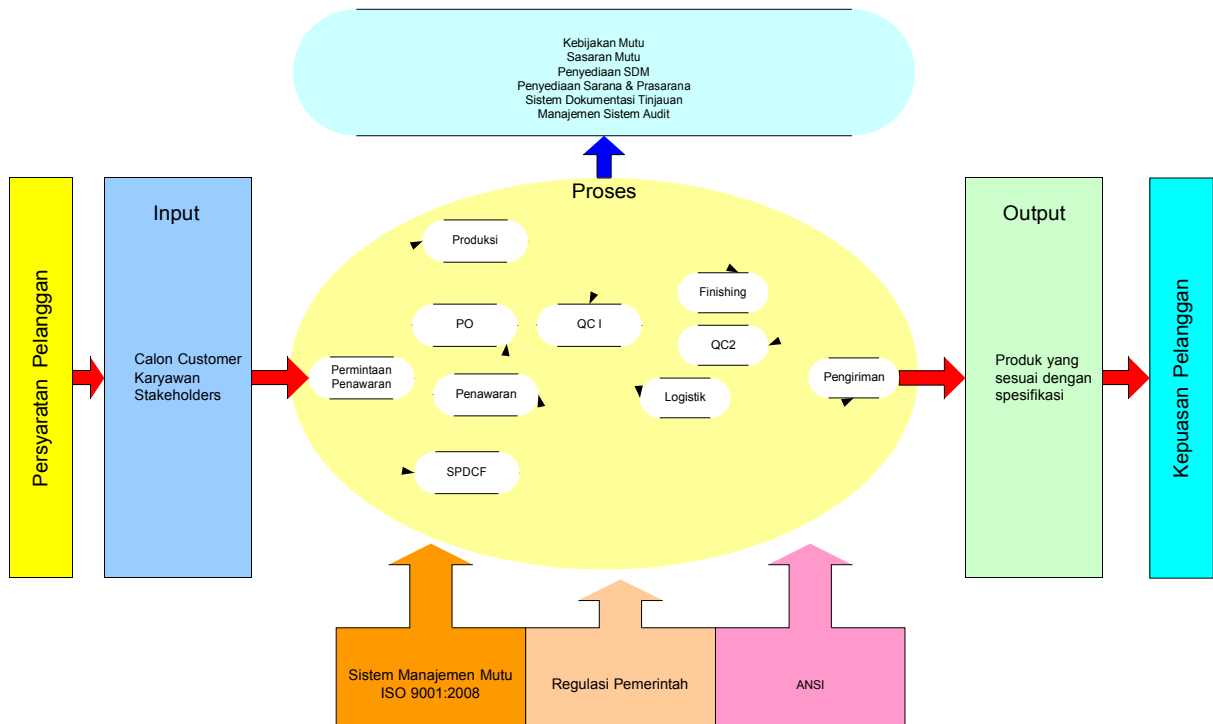
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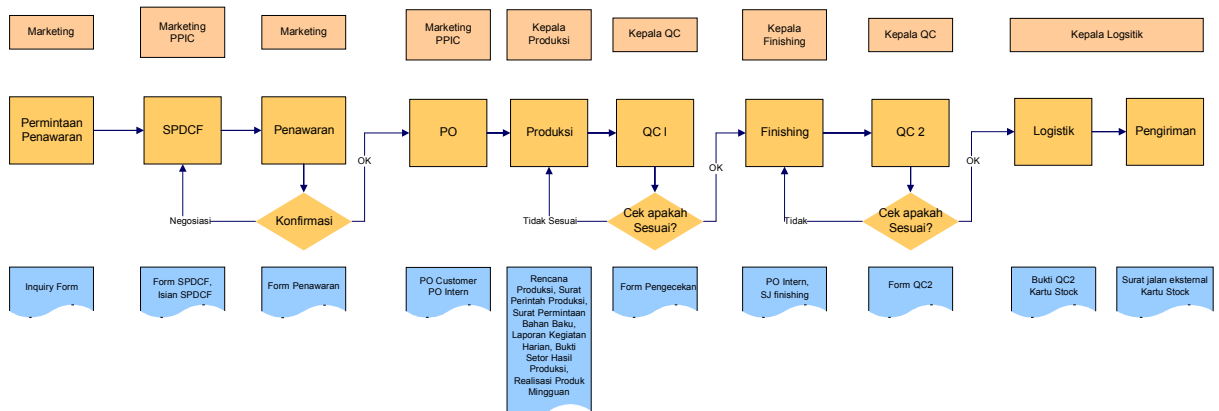


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11. PEMETAAN PROSES BISNIS
BUSINESS PROCESS MAPPING



12. RENCANA MUTU
QUALITY PLAN



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13. HUBUNGAN DOKUMEN DAN PROSEDUR TERHADAP KLAUSUL ISO 9001:2008
RELATIONSHIP BETWEEN THE DOCUMENTS AND PROCEDURES ON CLAUSE OF ISO 9001:2008

NO	KLAUSUL ISO 9001:2008		NAMA DOKUMEN
1	4	Sistem Manajemen Mutu <i>Quality Management System</i>	<ul style="list-style-type: none"> ● Manual Sistem Mutu <i>Quality System Manual</i> ■ Pemetaan Proses Bisnis <i>Business Process Mapping</i> ● Semua Prosedur Sistem Mutu <i>All Quality System Procedures</i> ■ Prosedur Sistem Mutu Rekrutmen Karyawan <i>Quality System Procedure for Employee Recruitment</i> ■ Prosedur Sistem Mutu Survey Kepuasan Pelanggan <i>Quality System Procedure for Customer Satisfaction Survey</i> ■ Prosedur Sistem Mutu Pengendalian Alat Ukur <i>Quality System Procedure for Control of Measuring Instrument</i> ■ Prosedur Sistem Mutu Tindakan Koreksi <i>Quality System Procedure for Corrective Action</i> ■ Prosedur Sistem Mutu Tindakan Pencegahan
	4.1.	Persyaratan Umum <i>General Requirements</i>	
	4.2.	Persyaratan Dokumentasi <i>Documentation Requirements</i>	Manual Sistem Mutu <i>Quality System Manual</i> <ul style="list-style-type: none"> ■ Kebijakan Mutu <i>Quality Policy</i> ■ Sasaran Mutu <i>Quality Objectives</i> ■ Prosedur wajib <i>Mandatory Procedures</i> ■ Rekaman mutu wajib <i>Mandatory Record</i> ■ Semua Prosedur Sistem Mutu <i>All Quality System Procedures</i> ■ Semua Instruksi Kerja <i>All Work Instructions</i> ■ Semua Program Pendukung <i>All Supporting Programs</i> ■ Semua Rekaman <i>All Records</i>
	4.2.1	Umum <i>General</i>	

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	4.2.2. Manual Mutu <i>Quality Manual</i>	<p>Manual Sistem Mutu yang mencakup: <i>Quality System Manual including :</i></p> <ul style="list-style-type: none"> ▪ lingkup <i>scope</i> ▪ pengecualian klausul <i>exclusion clause</i> ▪ prosedur yang ditetapkan <i>established procedures</i> ▪ acuan prosedur <i>reference of procedure</i> ▪ interaksi proses SMM <i>interaction of QMS processes</i>
	4.2.3. Pengendalian Dokumen <i>Control of Documents</i>	<ul style="list-style-type: none"> ▪ Prosedur Sistem Mutu Pengendalian Manual Mutu <i>Quality System Procedure for Control of Quality Manual</i> ▪ Prosedur Sistem Mutu Pengendalian Dokumen Eksternal <i>Quality System Procedure for Control of Internal Documents</i> ▪ Prosedur Sistem Mutu Pengendalian Dokumen Internal <i>Quality System Procedure for Control of External Documents</i> ▪ Instruksi Kerja Penomoran Dokumen <i>Work Instruction for Document Numbering</i>

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	<p>4.2.4. Pengendalian Rekaman <i>Control of Records</i></p>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Pengendalian Rekaman Mutu <i>Quality System Procedure for Control of Records</i> ● Prosedur Sistem Mutu Pengendalian Surat Masuk <i>Quality System Procedure for Control of Incoming Mail</i> ● Prosedur Sistem Mutu Pengendalian Surat Keluar <i>Quality System Procedure for Control of Outgoing Mail</i> ● Instruksi Kerja Penomoran Surat <i>Work Instruction for Letter Numbering</i> ● Rekaman Pengendalian Dokumen <i>Control of Documents Record</i> ● Rekaman Perubahan Dokumen <i>Document Change Record</i> ● Rekaman (Master-list) semua Prosedur <i>Quality System Record Master List for Procedures</i> ● Rekaman (Master-list) semua Instruksi Kerja <i>Quality System Record Master List for Work Instructions</i> ● Rekaman (Master-list) semua Program Pendukung <i>Quality System Record Master List for Supporting Program</i> ● Rekaman (Master-list) semua Rekaman <i>Quality System Record Master List for Records</i>
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2	5	Tanggung Jawab Manajemen <i>Management Responsibility</i>	<ul style="list-style-type: none"> ● Manual Mutu <i>Quality System Manual</i> ● Kebijakan Mutu <i>Quality Policy</i> ● Sasaran Mutu <i>Quality Objectives</i> ● Persyaratan Pelanggan (NEMA, ANSI, JIS) <i>Customer Requirements (NEMA, ANSI, JIS)</i> ● Undang-undang, PP terkait <i>Related Regulations</i> ● Pembentukan Departemen Quality Assurance <i>Establishment of Quality Assurance Department</i> ● Prosedur Sistem Mutu Tinjauan Manajemen <i>Quality System Procedure for Management Review</i> ● Prosedur Sistem Mutu Rekrutmen Karyawan <i>Quality System Procedure for Employee Recruitment</i> ● Prosedur Sistem Mutu Pengadaan <i>Quality System Procedure for Procurement</i> ● Prosedur Sistem Mutu Permintaan Pembelian Barang dan Jasa <i>Quality System Procedure for Purchasing</i>
	5.1.	Komitmen Manajemen <i>Management Commitment</i>	
	5.2.	Fokus pada Pelanggan <i>Customer Focus</i>	<ul style="list-style-type: none"> ● Manual Sistem Mutu <i>Quality System Manual</i> ● Kebijakan Mutu <i>Quality Policy</i> ● Persyaratan Pelanggan (JIS, ANSI, NEMA) <i>Customer Requirements (JIS, ANSI, NEMA)</i> ● Prosedur Sistem Mutu Penanganan Keluhan Pelanggan <i>Quality System Procedure for Handling of Customer Complaints</i> ● Prosedur Sistem Mutu Survey Kepuasan Pelanggan <i>Quality System Procedure for Customer Satisfaction Survey</i> ● Form Penanganan Keluhan Pelanggan <i>Handling of Customer Complaints Form</i> ● Angket Kepuasan Pelanggan <i>Customer Satisfaction Questionnaire</i>

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		<ul style="list-style-type: none"> ● Kotak Saran <i>Suggestion Box</i>
5.3.	Kebijakan Mutu <i>Quality Policy</i>	<ul style="list-style-type: none"> ● Manual Sistem Mutu <i>Quality System Manual</i> ● Kebijakan Mutu <i>Quality Policy</i> ● Visi <i>Vision</i> ● Misi <i>Mission</i>
5.4.	Perencanaan <i>Planning</i>	<ul style="list-style-type: none"> ● Manual Mutu <i>Quality Manual</i> ● Sasaran Mutu <i>Quality Objectives</i> ● Form Penilaian Pencapaian Sasaran Mutu <i>Achievement of Quality Objectives Assessment Form</i>
5.4.1	Sasaran Mutu <i>Quality Objectives</i>	
5.4.2.	Perencanaan Sistem Manajemen Mutu <i>Quality Management System Planning</i>	<ul style="list-style-type: none"> ● Manual Mutu <i>Quality Manual</i> ● Pemetaan Proses Bisnis <i>Business Process Mapping</i>
5.5.	Tanggung Jawab, Wewenang dan Komunikasi <i>Responsibility, Authority and Communication</i>	<ul style="list-style-type: none"> ● Statuta <i>Statuta</i> ● Organisasi Tata Laksana <i>Organizational Governance</i> ● Manual Mutu <i>Quality Manual</i> ● Struktur Organisasi <i>Organizational Structure</i> ● Prosedur Sistem Mutu Perubahan Jabatan Karyawan <i>Quality System Procedure for Employee Positions Change</i> ● Prosedur Sistem Mutu Penilaian Karyawan <i>Quality System Procedure for Employee Assessment</i> ● Peran dan Tanggung Jawab <i>Role and Responsibility</i>
5.5.1.	Tanggung Jawab dan Wewenang <i>Responsibility and Authority</i>	
5.5.2.	Wakil Manajemen <i>Management Representative</i>	<ul style="list-style-type: none"> ● Manual Mutu <i>Quality Manual</i> ● Penunjukan Wakil Manajemen <i>Appointment of Management Representative</i>

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	5.5.3. Komunikasi Internal <i>Internal Communication</i>	<ul style="list-style-type: none"> ● Manual Sistem Mutu <i>Quality System Manual</i> ● Struktur Organisasi <i>Organizational Structure</i> ● Prosedur Sistem Mutu Rapat Tahunan <i>Quality System Procedure for Annual Meeting</i> ● Prosedur Sistem Mutu Rapat Rutin <i>Quality System Procedure for Regular Meetings</i> ● Pengumuman <i>Announcement</i> ● Sosialisasi <i>Socialization</i> ● Diskusi/rapat <i>Discussions/meetings</i>
	5.6. Tinjauan Manajemen <i>Management Review</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Tinjauan Manajemen <i>Quality System Procedure for Management Review</i> ● Agenda & Notulensi Tinjauan Manajemen <i>Management Review Agenda & Minutes</i>
	5.6.1. Umum <i>General</i>	
	5.6.2. Masukan untuk Tinjauan Manajemen <i>Review Input</i>	<ul style="list-style-type: none"> ● Pemetaan Proses Bisnis <i>Business Process Mapping</i> ● Prosedur Sistem Mutu Tinjauan Manajemen <i>Quality System Procedure for Management Review</i> ● Prosedur Sistem Mutu Tindakan Koreksi <i>Quality System Procedure for Corrective Action</i> ● Prosedur Sistem Mutu Tindakan Pencegahan <i>Quality System Procedure for Preventive Action</i> ● Agenda & Notulensi Tinjauan Manajemen <i>Management Review Agenda & Minutes</i> ● Prosedur Sistem Mutu Audit Mutu Internal <i>Quality System Procedure for Internal Audit</i>
	5.6.3. Keluaran untuk Tinjauan Manajemen <i>Review Output</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Tindakan Koreksi <i>Quality System Procedure for Corrective Action</i> ● Prosedur Sistem Mutu Tindakan Pencegahan <i>Quality System Procedure for Preventive Action</i> ● Prosedur Sistem Mutu Tinjauan

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			<p>Manajemen <i>Quality System Procedure for Management Review</i></p> <ul style="list-style-type: none"> Prosedur Sistem Mutu Rekrutmen Karyawan <i>Quality System Procedure for Employee Recruitment</i>
3	6	<p>Pengelolaan Sumber Daya <i>Resource Management</i></p>	<ul style="list-style-type: none"> Persyaratan Pelanggan <i>Customer Requirements</i> Prosedur Sistem Mutu Survey Kepuasan Pelanggan <i>Quality System Procedure for Customer Satisfaction Survey</i> Angket Kepuasan Pelanggan <i>Customer Satisfaction Questionnaire</i> Kotak Saran <i>Suggestion Box</i> Prosedur Sistem Mutu Rekrutmen Karyawan <i>Quality System Procedure for Employee Recruitment</i> Prosedur Sistem Mutu Pengadaan Barang dan Jasa <i>Quality System Procedure for Procurement</i> Prosedur Sistem Mutu Permintaan Pembelian Barang dan Jasa <i>Quality System Procedure for Purchasing</i> Prosedur Sistem Mutu Gudang Logistik <i>Quality System Procedure for Logistics Warehouse</i>
	6.1.	<p>Penyediaan Sumber Daya <i>Provision of Resources</i></p>	
	6.2.	<p>Sumber Daya Manusia <i>Human Resources</i></p>	<ul style="list-style-type: none"> Kompetensi Karyawan <i>Employee Competence</i> Kualifikasi Karyawan <i>Employee Qualification</i> Prosedur Sistem Mutu Rekrutmen Karyawan <i>Quality System Procedure for Employee Recruitments</i> Prosedur Sistem Mutu Pendidikan dan Pelatihan Karyawan <i>Quality System Procedure for Education and Training</i> Form Penanganan Keluhan Pelanggan <i>Handling Customer Complaints Form</i>
	6.2.1.	<p>Umum <i>General</i></p>	

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	6.2.2. Kompetensi, Kesadaran dan Pelatihan <i>Competence, Awareness and Training</i>	<ul style="list-style-type: none"> ● Sasaran Mutu <i>Quality Objectives</i> ● Prosedur Sistem Mutu Pendidikan dan Pelatihan Karyawan <i>Quality System Procedure for Education and Training</i> ● Kompetensi Karyawan <i>Employee Competence</i> ● Kualifikasi Karyawan <i>Employee Qualification</i>
6.3.	Prasarana <i>Infrastructure</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Pengadaan Barang dan Jasa <i>Quality System Procedure for Procurement</i> ● Prosedur Sistem Mutu Permintaan Pembelian Barang dan Jasa <i>Quality System Procedure for Purchasing</i> ● Prosedur Sistem Mutu Gudang Logistik <i>Quality System Procedure for Logistics Warehouse</i> ● Prosedur Sistem Mutu Perawatan Gedung dan Infrastruktur <i>Quality System Procedure for Building and Infrastructure Maintenance</i> ● Prosedur Sistem Mutu Back Up Data <i>Quality System Procedure for Data Back Up</i> ● Kir mobil ● Prosedur Sistem Mutu Bagian Kendaraan <i>Quality System Procedure for Vehicles</i>
6.4.	Lingkungan Kerja <i>Work Environment</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Pengawasan Kebersihan Lingkungan Pabrik <i>Quality System Procedure for Factory Sanitation Supervision</i> ● Prosedur Sistem Mutu Perawatan Gedung dan Infrastruktur <i>Quality System Procedure for Building and Infrastructure Maintenance</i> ● Prosedur Sistem Mutu Penanganan Kecelakaan Kerja <i>Quality System Procedure for Handling Workplace Accidents</i>

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4	7	Realisasi Produk <i>Product Realization</i>	<ul style="list-style-type: none"> ■ Manual Mutu <i>Quality Manual</i> ■ Sasaran Mutu <i>Quality Objectives</i> ■ Persyaratan Pelanggan (ANSI, JIS, NEMA) <i>Customer Requirements (ANSI, JIS, NEMA)</i> ■ Jadwal Produksi <i>Production Schedule</i> ■ Prosedur Sistem Mutu Pengadaan Barang dan Jasa <i>Quality System Procedure for Procurement</i> ■ Prosedur Sistem Mutu Permintaan Pembelian Barang dan Jasa <i>Quality System Procedure for Purchasing</i>
	7.1.	Perencanaan Realisasi Produk <i>Planning of Product Realization</i>	
	7.2.	Proses yang Berkaitan dengan Pelanggan <i>Customer-related Processes</i>	<ul style="list-style-type: none"> ■ Prosedur Sistem Mutu Marketing <i>Quality System Procedure for Marketing</i> ■ Persyaratan Pelanggan (ANSI, JIS, NEMA) <i>Customer Requirements (ANSI, JIS, NEMA)</i>
	7.2.1.	Penetapan Persyaratan yang Berkaitan dengan Produk <i>Determination of Requirement Related to The Product</i>	
	7.2.2.	Tinjauan Persyaratan yang Berkaitan dengan Produk <i>Review of Requirement Related to The Product</i>	<ul style="list-style-type: none"> ■ Prosedur Sistem Mutu Inspeksi dan Pengujian <i>Quality System Procedure for Inspection and Testing</i>
7.2.3.	Komunikasi Pelanggan <i>Customer Communication</i>	<ul style="list-style-type: none"> ■ Brosur <i>Brochure</i> ■ Leaflet <i>Leaflet</i> ■ Buku katalog produk <i>Product Catalogue</i> ■ Prosedur Sistem Mutu Penanganan Keluhan Pelanggan <i>Quality System Procedure for Handling Customer Complaints</i> ■ Form Penanganan Keluhan Pelanggan <i>Handling Customer Complaints Form</i> ■ Masukan dari pengguna produk <i>Input from users of product</i> ■ Prosedur Sistem Mutu Marketing <i>Quality System Procedure for Marketing</i> 	

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STEEL CONDUIT AND CABLE SUPPORT SYSTEM MANUFACTURER



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	Status Revisi :

	7.3. Desain dan Pengembangan <i>Design and Development</i>	<ul style="list-style-type: none"> Prosedur Sistem Mutu Perancangan dan Pembuatan Produk Baru <i>Quality System Procedure for Design and Manufacture of New Product</i>
	7.3.1. Perencanaan Desain dan Pengembangan <i>Design and Development Planning</i>	
	7.3.2. Masukan Desain dan Pengembangan <i>Design and Development Inputs</i>	<ul style="list-style-type: none"> Prosedur Sistem Mutu Penyusunan Redesain Produk <i>Quality System Procedure for Preparation of Product Redesign</i>
	7.3.3. Keluaran Desain dan Pengembangan <i>Design and Development Outputs</i>	<ul style="list-style-type: none"> Prosedur Sistem Mutu Perancangan dan Pembuatan Produk Baru <i>Quality System Procedure for Design and Manufacture of New Product</i> Prosedur Sistem Mutu Penyusunan Katalog Produk <i>Quality System Procedure for Preparation of Product Catalogue</i>
	7.3.4. Tinjauan Desain dan Pengembangan <i>Design and Development Review</i>	<ul style="list-style-type: none"> Prosedur Sistem Mutu Review dan Pengembangan Desain <i>Quality System Procedure for Design Review and Development</i>
	7.3.5. Verifikasi Desain dan Pengembangan <i>Design and Development Verification</i>	<ul style="list-style-type: none"> Kesesuaian masukan dan keluaran <i>Suitability of input and output</i> Persyaratan Pelanggan (JIS, ANSI, NEMA) <i>Customer Requirements (JIS, ANSI, NEMA)</i> Masukan Stakeholders <i>Stakeholders Inputs</i>
	7.3.6. Validasi Desain dan Pengembangan <i>Design and Development Validation</i>	<ul style="list-style-type: none"> Prosedur Sistem Mutu Perancangan dan Pembuatan Produk Baru <i>Quality System Procedure for Design and Manufacture of New Product</i> Prosedur Sistem Mutu Penyusunan Redesain Produk <i>Quality System Procedure for Handling New Design</i> Prosedur Sistem Mutu Penyusunan Katalog Produk <i>Quality System Procedure for Preparation of Product Catalogue</i> Prosedur Sistem Mutu Review dan Pengembangan Desain <i>Quality System Procedure for Design Review and Development</i>

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	7.3.7. Pengendalian Perubahan Desain dan Pengembangan <i>Control of Design and Development Changes</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Review dan Pengembangan Desain <i>Quality System Procedure for Design Review and Development</i> ● Perubahan Desain <i>Design Changes</i>
	7.4. Pembelian <i>Purchasing</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Pengadaan Barang dan Jasa <i>Quality System Procedure for Procurement</i> ● Prosedur Sistem Mutu Permintaan Pembelian Barang dan Jasa <i>Quality System Procedure for Purchasing</i> ● Prosedur Sistem Mutu Perbaikan dan Perawatan Peralatan <i>Quality System Procedure for Maintenance</i> ● Prosedur Sistem Mutu Perawatan Gedung dan Infrastruktur <i>Quality System Procedure for Building and Infrastructure Maintenance</i>
	7.4.1. Proses Pembelian <i>Purchasing Process</i>	
	7.4.2. Informasi Pembelian <i>Purchasing Information</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Pengadaan Barang dan Jasa <i>Quality System Procedure for Procurement</i> ● Prosedur Sistem Mutu Permintaan Pembelian Barang dan Jasa <i>Quality System Procedure for Purchasing</i> ● Prosedur Sistem Mutu Perbaikan dan Perawatan Peralatan <i>Quality System Procedure for Maintenance</i> ● Prosedur Sistem Mutu Perawatan Gedung dan Infrastruktur <i>Quality System Procedure for Building and Infrastructure Maintenance</i> ● Leaflet <i>Leaflet</i> ● Brosur <i>Brochure</i> ● Profil Perusahaan <i>Company Profile</i>

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	7.4.3. Verifikasi Produk yang Dibeli <i>Verification of Purchased Product</i>	<ul style="list-style-type: none"> ■ Prosedur Sistem Mutu Pengadaan Barang dan Jasa <i>Quality System Procedure for Procurement</i> ■ Prosedur Sistem Mutu Permintaan Pembelian Barang dan Jasa <i>Quality System Procedure for Purchasing</i> ■ Form Evaluasi Supplier <i>Supplier Evaluation Form</i>
	7.5. Produksi dan Penyediaan Jasa <i>Production and Service Provision</i>	<ul style="list-style-type: none"> ■ Prosedur Sistem Mutu Keuangan <i>Quality System Procedure for Finance</i> ■ Pencairan dana anggaran <i>Budget Disbursement</i> ■ Prosedur Sistem Mutu Pengendalian Awal <i>Quality System Procedure for Handling Awal</i> ■ Prosedur Sistem Mutu Proses Finishing <i>Quality System Procedure for Finishing Process</i> ■ Prosedur Sistem Mutu Inspeksi dan Pengujian <i>Quality System Procedure for Inspection and Testing</i> ■ Prosedur Sistem Mutu Pengendalian Proses Produksi <i>Quality System Procedure for Production Process Controlling</i> ■ Prosedur Sistem Mutu Gudang Logistik <i>Quality System Procedure for Logistics Warehouse</i> ■ Prosedur Sistem Mutu Logistik Eksternal <i>Quality System Procedure for External Logistics</i> ■ Prosedur Sistem Mutu Logistik Internal <i>Quality System Procedure for Internal Logistics</i> ■ Prosedur Sistem Mutu PPIC <i>Quality System Procedure for PPIC</i>
	7.5.1. Pengendalian Produksi dan Penyaluran Jasa <i>Control of Production and Service Provision</i>	
	7.5.2. Validasi Proses Produksi dan Penyaluran Jasa <i>Validation of Processes for Production and Service Provision</i>	
	7.5.3. Identifikasi dan Mampu Telusur <i>Identification and Traceability</i>	<ul style="list-style-type: none"> ■ Prosedur Sistem Mutu Pengendalian Surat Masuk <i>Quality System Procedure for Control of Incoming Mail</i>

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			<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Pengendalian Surat Keluar <i>Quality System Procedure for Outgoing Mail</i> ● Arsip Surat <i>Mail Archive</i> ● Arsip Keuangan <i>Finance Archive</i> ● Instruksi Kerja Penomoran Surat <i>Work Instruction for Letter Numbering</i>
	7.5.4.	Milik Pelanggan <i>Customer Property</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Penanganan Desain Pelanggan <i>Quality System Procedure for Handling of Customer Design</i>
	7.5.5.	Preservasi Produk <i>Preservation of Product</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Penanganan Desain Pelanggan <i>Quality System Procedure for Handling of Customer Design</i>
	7.6.	Pengendalian Sarana Pemantauan dan Pengukuran <i>Control of Monitoring and Measuring Devices</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Pengendalian Alat Ukur <i>Quality System Procedure for Control of Measuring Instruments</i>
5	8	Pengukuran, Analisa dan Perbaikan <i>Measurement, Analysis and Improvement</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Tindakan Koreksi <i>Quality System Procedure for Corrective Action</i> ● Prosedur Sistem Mutu Tindakan Pencegahan <i>Quality System Procedure for Preventive Action</i> ● Prosedur Sistem Mutu Audit Mutu Internal <i>Quality System Procedure for Internal Quality Audit</i>
	8.1.	Umum <i>General</i>	
	8.2.	Pemantauan dan Pengukuran <i>Monitoring and Measurement</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Penanganan Keluhan Pelanggan <i>Quality System Procedure for Handling of Customer Complaints</i> ● Form Penilaian Kinerja <i>Performance Appraisal Form</i> ● Persyaratan Pelanggan (JIS, ANSI, NEMA) <i>Customer Requirements (JIS, ANSI, NEMA)</i>

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	8.2.1. Kepuasan Pelanggan <i>Customer Satisfaction</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Penanganan Keluhan Pelanggan <i>Quality System Procedure for Handling Customer Complaints</i> ● Form Penanganan Keluhan Pelanggan <i>Handling Customer Complaints Form</i> ● Prosedur Sistem Mutu Survey Kepuasan Pelanggan <i>Quality System Procedure for Customer Satisfaction Survey</i> ● Angket Kepuasan Pelanggan <i>Customer Satisfaction Questionnaire</i> ● Masukan dari pengguna produk <i>Input from users of product</i>
	8.2.2. Audit Internal <i>Internal Audit</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Audit Mutu Internal <i>Quality System Procedure for Internal Quality Audit</i> ● Permintaan Tindakan Koreksi <i>Corrective Action Request</i> ● Rencana Audit <i>Audit Plan</i> ● Audit Checklist <i>Audit Schedule</i>
	8.2.3. Pemantauan dan Pengukuran Proses <i>Monitoring and Measurement of Processes</i>	<ul style="list-style-type: none"> ● Kuesioner Kinerja <i>Performance Questionnaire</i> ● Angket Kepuasan Pelanggan <i>Customer Satisfaction Questionnaire</i> ● Masukan dari pengguna produk <i>Input from users of product</i> ● Permintaan Tindakan Koreksi <i>Corrective Action Request</i> ● Prosedur Sistem Mutu Tindakan Koreksi <i>Quality System Procedure for Corrective Action</i>
	8.2.4. Pemantauan dan Pengukuran Produk <i>Monitoring and Measurement of Product</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Inspeksi dan Pengujian <i>Quality System Procedure for Inspection and Testing</i>
	8.3. Pengendalian Produk yang Tidak Sesuai <i>Control of Nonconforming Product</i>	<ul style="list-style-type: none"> ● Masukan dari pengguna produk <i>Input from users of product</i> ● Permintaan Tindakan Koreksi <i>Corrective Action Request</i> ● Prosedur Sistem Mutu Tindakan Koreksi <i>Quality System Procedure for Corrective Action</i>

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		<ul style="list-style-type: none"> ■ Prosedur Sistem Mutu Pengendalian Produk Tidak Sesuai <i>Quality System Procedure for Control of Non-conforming Products</i>
8.4.	Analisis Data <i>Analysis of Data</i>	<ul style="list-style-type: none"> ■ Prosedur Sistem Mutu Penanganan Keluhan Pelanggan <i>Quality System Procedure for Handling of Customer Complaints</i> ■ Form Penanganan Keluhan Pelanggan <i>Handling of Customer Complaints Form</i> ■ Persyaratan Pelanggan (JIS, ANSI, NEMA) <i>Customer Requirements (JIS, ANSI, NEMA)</i> ■ Masukan dari pengguna produk <i>Input from users of product</i> ■ Permintaan Tindakan Koreksi <i>Corrective Action Request</i> ■ Prosedur Sistem Mutu Tindakan Koreksi <i>Quality System Procedure for Corrective Action</i> ■ Prosedur Sistem Mutu Tindakan Pencegahan <i>Quality System Procedure for Preventive Action</i>
8.5.	Perbaikan <i>Improvement</i>	<ul style="list-style-type: none"> ■ Manual Mutu <i>Quality Manual</i> ■ Kebijakan Mutu <i>Quality Policy</i> ■ Sasaran Mutu <i>Quality Objectives</i> ■ Hasil Audit <i>Audit Results</i> ■ Permintaan Tindakan Koreksi <i>Corrective Action Request</i> ■ Analisa akar Masalah <i>Analysis of the Problems</i> ■ Analisa Data <i>Analysis of Data</i> ■ Prosedur Sistem Mutu Tindakan Koreksi <i>Quality System Procedure for Corrective Action</i> ■ Prosedur Sistem Mutu Tindakan Pencegahan <i>Quality System Procedure for Preventive Action</i>
	8.5.1. Perbaikan Berkesinambungan <i>Continual Improvement</i>	<ul style="list-style-type: none"> ■ Prosedur Sistem Mutu Tindakan Koreksi <i>Quality System Procedure for Corrective Action</i> ■ Prosedur Sistem Mutu Tindakan Pencegahan <i>Quality System Procedure for Preventive Action</i>
	8.5.2. Tindakan Koreksi <i>Corrective Action</i>	<ul style="list-style-type: none"> ■ Prosedur Sistem Mutu Tindakan Koreksi <i>Quality System Procedure for Corrective Action</i>

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			<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Penanganan Kecelakaan Kerja <i>Quality System Procedure for Handling Workplace Accidents</i> ● Permintaan Tindakan Koreksi <i>Corrective Action Request</i> ● Analisa akar Masalah <i>Analysis of the Problems</i> ● Analisa Data <i>Analysis of Data</i>
	8.5.3.	Tindakan Pencegahan <i>Preventive Action</i>	<ul style="list-style-type: none"> ● Prosedur Sistem Mutu Tindakan Pencegahan <i>Quality System Procedure for Preventive Action</i> ● Prosedur Sistem Mutu Penanganan Kecelakaan Kerja <i>Quality System Procedure for Handling Workplace Accidents</i> ● Analisa akar Masalah <i>Analysis of the Problems</i> ● Analisa Data <i>Analysis of Data</i> ● Studi banding <i>Comparative Study</i>

14. DAFTAR KEPUSTAKAAN
BIBLIOGRAPHY

- **ISO 9000:2005 Sistem Manajemen Mutu - Kosakata**
ISO 9000:2005 Quality Management System - Vocabulary
- **ISO 9001:2008 Sistem Manajemen Mutu - Persyaratan**
ISO 9001:2008 Quality Management System - Requirements
- **ISO 19011:2002 Panduan Audit Sistem Manajemen Mutu/Lingkungan**
ISO 19011:2002 Guidelines for Quality/Environmental Management Systems Auditing
- **ISO/TR 10013:2001 Panduan Dokumentasi Sistem Manajemen Mutu**
ISO/TR 10013:2001 Guidelines for Quality Management System Documentation

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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



PREQUALIFICATION DOCUMENT ISO 9001 : 2008 CERTIFIED

Section 4

Project Examples Selection

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website : www.elprosteel.com



No	Project Name	Type	Country	Contractor	Year	Value (USD)	Total IDR
1	Telekomunikasi	Cable Support & Conduit	Jawa Tengah	PT. Cahaya Mutiara Mandiri	2009		240,000,000
2	RCC of Gas to Propylene DDP Balongan	Cable Support	Jawa Barat	PT. ReKayasa Industri	2009		1,128,600,000
3	Tanjung Priok	Conduit	Jakarta Timur	PT. Promindo (PT.Mithsubishi)	2009		1,700,151,400
4	IKPP PPM 9	Cable Support	Jawa Barat	Shihlin Electric & Eng Corporation	2009		208,250,000
5	Tj. Jati B Expansion	Cable Support	Jawa Tengah	PT. Mitsubishi Corporation	2009		1,740,000,000
6	Indonesia Tj. Jati B-Coal Firing Thermal Plant	Cable Support	Jawa Tengah	PT. Mitsubishi Corporation	2009		253,000,000
7	Chevron 1 Duri Riau	Cable Support	Sumatra Utara	PT. Metaepsi	2009		514,617,566
8	Mithsubishi - Paiton 3 Power Plant	Conduit	Jawa Timur	PT. Promindo Makmur Abadi	2009		156,105,200
9	Mithsubishi - Tanjung Jati B	Conduit	Jawa Tengah	PT. Promindo Makmur Abadi	2009		703,358,550
10	Pabrik Terigu	Cable Support	Medan	PT. Eastern Pearl Flour Mills	2009		139,980,600
11	Indonesia Paiton 3	Cable Support	Jawa timur	PT. MPS Indonesia	2009		6,709,574,749
12	Indonesia Paiton 4	Cable Support	Jawa timur	PT. MPS Indonesia	2009		1,345,425,251
13	TJ. Priuk Gas Fired Power Plant Extension	Cable Support	Jakarta Utara	PT. MPS Indonesia	2009		2,273,877,202
14	Muara Karang	Conduit	Jakarta Utara	PT. Promindo (Mitsubishi Corporation)	2009		132,144,844
15	Freeport 1500 Man Barrack	Conduit	Papua	PT. ODG Wordmald Indonesia	2010		195,113,830
16	Sumater Prima Fiberboard	Conduit	Jawa Barat	PT. Indo Buana Lestari	2010		171,026,250
17	PLTGU Tanjung Priok	Conduit	Jakarta Utara	PT. Haman Rokko	2010		331,700,000
18	PLTGU Tanjung Priok	Cable Support	Jakarta Utara	PT. Haman Rokko	2010		218,900,000
19	Toka Tindung	Conduit	Sulawesi Utara	PT. ODG Worldmald Indonesia	2010		351,349,414
20	Vopak Merak	Conduit	Jawa Barat	PT. Effrensindo Kencana	2010		143,975,100
21	AHM Cibitung	Conduit	Jakarta	PT. Jaga Citra Inti	2010		1,130,267,875
22	Antam Pomala	Conduit	Maluku Utara	PT.Dipa Jaya Sejahtera	2010		172,484,813
23	WTC	Conduit	Jakarta	PT. Prima Cipta	2011		272,784,525
24	TJ.Priok	Cable Support	Jakarta Utara	PT.MPSI	2011		287,048,325
25	Tj.Tabalong Coal Fired Power Plant	Cable Support	Kalimantan Selatan	PT.Punj Lloyd Indonesia	2011		2,230,000,000
26	Kalimantan	Conduit	Kalimantan	PT. Sumpratama	2012		269,986,090
27	2x35MW Tonasa Coal Power Plant (Fabrication)	Cable Support	Sulawesi Selatan	PT.Rekayasa Industri	2012		1,790,978,850
28	Indolakto	Conduit	Jawa Timur	PT. Jaga Citra Inti	2012		813,231,100
29	Medco	Cable Support	Jakarta	CV. Mitra Suplindo	2012		143,854,016
30	POSCO	Conduit	Jawa Barat	PT. Woojin Conctruction Indonesia	2012		606,482,500
31	POSCO - POWER PLANT	Conduit	Jawa Barat	PT. IND DONG YANG	2012		309,395,000
32	DONGGI	Conduit	Jawa Barat	PT. Casa Prima	2012		401,900,883
33	KERAMASAN POWER PLANT	Conduit	Palembang	PT. Tosplant Engineering	2012		242,300,570
34	PKT-5 2500 MTPD & 3500 MTPD UREA	Conduit	Kalimantan Timur	PT. Inti Karya Persada Teknik	2012		1,741,996,867
35	PKT-5 2500 MTPD & 3500 MTPD UREA	Cable Support	Kalimantan Timur	PT. Inti Karya Persada Teknik	2012		2,209,882,000
36	POSCO - POWER PLANT	Conduit	Jawa Barat	PT. Posco E & C Indonesia	2012		357,113,627

PROJECT REFERENCE

ELPRO STEEL CONDUIT & CABLE SUPPORT SYSTEMS PRODUCT

being used for electrical installation at the following Project

Power Plant :

Project : TONASA COAL FIRED POWER PLANT	By. PT. Rekayasa Industri
Project : KALTIM-5 2500 MTPD AMMONIA & 3500 MTPD UREA	By. PT. Inti Karya Persada Tehnik
Project : PLTU AMURANG SULUT	By. PT. Wijaya Karya
Project : TANJUNG TABALONG COAL FIRED POWER PLANT	By. PT. Punj Lloyd
Project : TANJUNG PRIOK GAS FIRED POWER PLANT EXPANSION	By. PT. Mitsubishi Corporation
Project : RCC OF GAS TO PROPYLENE DDP BALONGAN	By. PT. Rekayasa Industri
Project : TANJUNG JATI B EXPANSION	By. PT. Mitsubishi Corporation
Project : PAITON 3 POWER PLANT	By. PT. Mitsubishi Corporation
Project : CHEVRON 1 DURI RIAU	By. PT. Meta Epsi
Project : PLTU LAMPUNG	By. PT. Adhi Karya / PT. Promindo
Project : PLTU TANJUNG PRIOK	By. PT. Mitsubishi Corporation / PT. Promindo
Project : PLTU REMBANG	By. PT. Satyamitra Surya Perkasa / PT. Promindo
Project : FCA PAITON	By PT. Siemens Indonesia
Project : LABUHAN ANGIN, Sibolga	By CMEC
Project : LAHENDONG 3	By PT. Tata Udara Nusantara
Project : MANGGA DUA POWER PLANT	By PT. Natrus Paradikma Listrik Mandiri
Project : MODIFICATION FIRE ALARM SYSTEM FOR JAVA POWER	By PT. ODG Wormald Indonesia
Project : PAITON I POWER PLANT EAST JAVA	By PT. Satya Mitra Surya Perkasa
Project : PAITON, Probolinggo	By PT. Simentari Abdi Bina
Project : PLTA MUSI, Bengkulu	By PT. Lestari Karya Utama
Project : PLTG PANARAN, Batam	By PT. Dalle Energy
Project : PLTGU MUARA TAWAR II GTPP, Marunda	By PT. Balfour Beatty Sakti PT. Samsung Corporation
Project : PLTU CILACAP	By PT. Satya Mitra Surya Perkasa
Project : PLTU CILACAP	By Chengda Engineering Corporation Of China
Project : PLTU CILEGON	By PT. Areva Transmission
Project : PLTU TANJUNG JATI II, Jepara - Central Java	By Sumitomo Corp.
Project : PLTU TARAHAH, Lampung	By Marubeni & Mitsui Miike Machinery CO, LTD
Project : PLTU TUBAN, East Java	By PT. Karya Cemerlang Mandiri
Project : SENGKANG POWER PLANT, Sulawesi	By PT. Dwipa Konektra
Project : TANJUNG JATI II	By PT. Tosplant
Project : CCPP 1x130 MW JABABEKA III, Cikarang	By PT. Indo Fuji Energi
Project : BEKAERT KERAWANG	By. Karya Intertek Kencana

Gas & Mining Eksploration :

Project : CHEVRON	By PT. Klaras Pusaka Instrumindo
Project : ARUTMIN SENAKEN MINE	By PT. Thiess Indonesia
Project : BADAK BONTANG TRAINING, Kalimantan Timur	By PT. Adhi Karya
Project : CALTEX WAREHOUSE	By PT. Siemens Cerberus
Project : CONOCO PHILIPS	By PT. Control System PT. Sarku Engineering Utama
Project : DRAJAT GEOTHERMAL	By PT. Thiess Indonesia
Project : FENI 3 ANTAM (POMALA) Kendari, Sulawesi	By PT. Cemara Sikko Engineering PT. Hazama
Project : FIRE PROTECTION CALTEX WAREHOUSE, Riau	By PT. Siemens Cerberus
Project : FREEPORT, Irian Jaya	By PT. ODG Wormald Indonesia
Project : KPC SANGATA, Kalimantan Timur	By PT. Thiess Indonesia
Project : LNG TANGGUH, Irian Jaya	By PT. ALSTOM
Project : LPG SULFUR	By PT. Siemens Indonesia
Project : MC DERMOT, Singapore	By GE Supply Asia Pte Ltd
Project : MEDCO	By PT. Dwipa Konektra & PT. Puco
Project : NATURAL GAS	By PT. Cemara Sikko Engineering Indonesia
Project : PENGEMBANGAN GAS SUMBAGSEL	By PT. Inti Karya Persada Teknik PT. Indomuda Satria Internusa
Project : PERTAMINA CILACAP	By PT. Grand Kartech & PT. Kota Minyak
Project : PERTAMINA HI-SEIPAKNING, Dumai	By PT. Solusi IndoSistem otomat
Project : PERTAMINA PLAJU	By PT. Control System
Project : PERTAMINA REWULU	By PT. Evanindo Mandiri
Project : PETRO CHINA, Jambi	By CV. Sungai Sawang Mandiri PT. Bumi Mitra Lestari
Project : SANTOS	By PT. Prasetya Gema Mulia & PT. Pradiptaya
Project : CHEVRON, Duri Riau	By PT. Metaepsi

PROJECT REFERENCE

ELPRO STEEL CONDUIT & CABLE SUPPORT SYSTEMS PRODUCT

being used for electrical installation at the following Project

Gas & Mining Eksplorasi :

Project : SCHLUMBERGER, Balikpapan	By PT. Berca Indonesia
Project : SECURITY MASTER PLAN, Bontang	By PT. Radiant Hypar Engineering
Project : TOTAL E & P	By PT. Mawar Mahakam & CV. Global Teknik
Project : TOTAL VINA	By PT. Antasena Rekayasa Mandiri
Project : TABANG MINE COAL UPGRADE	By PT. ODG Wormald Indonesia

Chemical Plant :

Project : PUPUK SRIWIDJAJA (PUSRI II B)	By PT. Rekayasa Industri
Project : PUPUK KALTIM (PKT-5)	By PT. Inti Karya Persada Teknik
Project : AKZO NOBEL, Surabaya	By PT. Akzo Nobel
Project : CABOT, Cilegon	By PT. Grama Bazita
Project : CAMCO OMYA, Tuban East Java	By PT. Pradiptaya
Project : DOMAS - KUALA TANJUNG, Sumatera Utara	By PT. Sumpratama Juru Engineering
Project : FSCM, JAKARTA	By PT. Bayu Danar Mutiara
Project : INDHOPHERIN	By PT. Daya Agung Indotama
Project : INDOCHEMICAL	By PT. Satyamitra Surya Perkasa
Project : KAO	By PT. Permiko
Project : NIPPON CHEMICAL, Cibitung West Java	By PT. Ryowa Binatex Pratama
Project : PETRO KIMIA, Gresik	By PT. Aneka Jasa Grahadika
Project : TELAGA PALMA, Waru	By PT. Telaga Palma
Project : WHITE OIL NUSANTARA, Gresik	By PT. Sumber Jayatama Nusantara

Steel Processing Plant :

Project : BHIRAWA STEEL, Surabaya	By PT. Bhirawa Steel
Project : ISPAT INDO, Taman - Sidoarjo	By PT. Ispat Indo
Project : MAP SMELTING, Cibitung	By PT. Rakintam
Project : SMELTING, Gresik	By PT. Smelting

Pulp & Paper Industri :

Project : BUKIT MURIA JAYA, Karawang	By PT. Yokomindo Makmur Perkasa
Project : LK2 - JAMBI MILL	By FLSmidth Airtech A/S
Project : LKII - PERAWANG MILL	By FLSmidth Airtech A/S
Project : MUSI PULP & PAPER, Palembang	By PT. ODG Wormald Indonesia
Project : PINDO DELI II PULP & PAPER, Karawang	By PT. Pindo Delli Pulp & Paper
Project : PINDO DELLY, Karawang	By PT. Daya Agung Indotama
Project : SUPARMA, Surabaya	By PT. Suparma Tbk.
Project : TJIWI KIMIA PULP & PAPER, Gresik	By PT. Varia Usaha, PT. Hary Sekawan Abadi PT. Honeywell Indonesia & PT. Denok
Project : PT. IKPP - PERAWANG MILL PPM 7 ELECTRIFICATION, Singapore	By. Shihlin Electric & Engineering Corporation
Project : PT. IKPP - PERAWANG MILL PPM 9 ELECTRIFICATION, Singapore	By. Shihlin Electric & Engineering Corporation

Agro Industri :

Project : BISMA DHARMA KENCANA, Kalimantan Tengah	By PT. Toyosae Misindo Mandiri
Project : BUMI SAWIT MILL, Sulawesi	By PT. Gavin Pancasetia
Project : INDOLAMPUNG PERKASA, Lampung	By PT. Taiyo Sinar Raya Teknik
Project : KALIMAS, Surabaya	By PT. Paramitra
Project : KAPAL API COFFE PROCESSING, East Java	By PT. Pradiptaya
Project : KELAPA SAWIT, Pangkalan Bun Kalimantan Tengah	By PT. Boma Bisma Indra - PINDAD PT. Conarco Engineering
Project : KESA INDOTAMA, Bekasi	By PT. The Master Steel
Project : MERATUS, Surabaya	By CV. Pancasila
Project : PT. PERKEBUNAN NUSANTARA VI, Jambi	By PT. Karya Nurindo Cemerlang
Project : RUNGOW	By PT. Gavin Pancasetia
Project : SMART, Medan	By PT. Cipta Nauli
Project : TOBACCO	By. PT. Siemens Indonesia

PROJECT REFERENCE

ELPRO STEEL CONDUIT & CABLE SUPPORT SYSTEMS PRODUCT

being used for electrical installation at the following Project

Factory :

Project : BRIDGESTONE, Karawang, West Java	By PT. Rakintam
Project : CERES MEIJI, Karang Barat	By PT. Taiyo Sinar Raya Teknik
Project : FUJI SEMITSU, Cibitung	By PT. Taiyo Sinar Raya Teknik
Project : L'OREAL, Cakung	By PT. Karya Intertek Kencana
Project : LOTTE, Cibitung	By PT. Taiyo Sinar Raya Teknik
Project : NESTLE INDONESIA, Surabaya	By PT. Grama Bazita
Project : SHARP YASONTA, Pulo Gadung	By PT. Rakintam
Project : TOSHIBA, Ejip Karawang	By PT. Taiyo Sinar Raya Teknik
Project : UMEDA KOGYO, Kawasan Industri MM 2100	By PT. Ryowa Binatek Pratama
Project : AHM (ASTRA HONDA MOTOR), Pegangsaan	By PT. Permiko, PT. Swadana Megavisi, PT. Enviroutama Carelestari, PT. Contrade Trimitra Persada
Project : AICHIKIKI, Jakarta	By PT. Taiyo Sinar Raya Teknik
Project : AISIN, Jakarta	By PT. Taiyo Sinar Raya Teknik
Project : ASAHIMAS, Cilegon	By PT. Daya Agung Indotama
Project : ASTRA DAIHATSU MOTOR - Cibitung	By PT. Contrade Trimitra Persada PT. Taiyo Sinar Raya Teknik PT. Prima Jaya Engineering
Project : ASTRA DAIHATSU MOTOR - Sunter	By PT. Taiyo Sinar Raya Teknik PT. Kinden Indonesia, PT. Indah Yamamitra PT. Quantum Intra Teknik PT. Contrade Trimitra Persada
Project : ASTRA HONDA MOTOR, Cibitung	By PT. Indah Yamamitra, PT. Sapta Wibawa
Project : DAIDO KOGYO, Cikarang	By PT. Zena Purna Perkasa
Project : DIC, Pulogadung	By PT. Seamec Asia
Project : EINS TREND FACTORY - Purwakarta	By PT. Inko Prima Utama Jaya
Project : EXELCOMINDO	By PT. Fajar Adhisurya Perkasa
Project : GRACE PAPER, Cikampek	By PT. Grama Bazita
Project : GUDANG GARAM, Pandaan Surabaya	By PT. Wahana Aselkom
Project : HM SAMPOERNA, Surabaya	By PT. Jaya Kencana
Project : HOLCIM - Cilacap	By PT. ABB Sakti Industri
Project : HOLCIM, Cibinong	By PT. ABB Sakti Industri PT. Swahusada Guna Instrumentasi PT. Hastech Instrumindo
Project : HONDA MGA, Jakarta	By PT. Taiyo Sinar Raya Teknik
Project : HONDA PROSPEK, Jakarta	By PT. Seamec Asia
Project : HPPM, Cikampek	By PT. Taiyo Sinar Raya Teknik
Project : INDONESIA NIPPON SEIKI, Cikarang	By PT. Taiyo Sinar Raya Teknik
Project : ISTW, Semarang	By PT. Taiyo Sinar Raya Teknik
Project : JOTUN, Cikarang	By PT. Wijaya Kusuma Emindo
Project : KIMBERLY LEVER, Cikarang	By PT. Arista Pratama Jaya
Project : MARUICHI, Cikarang	By PT. Taiyo Sinar Raya Teknik
Project : MATSHUSHITA, Jakarta	By PT. Senko Ekatino
Project : MITSUBA, Tangerang	By PT. Taikisha Engineering
Project : MMA EXP	By PT. ODG Wormland
Project : PENZOIL, Cibitung	By PT. Alvitama Sentosa
Project : PT. GAYA MOTOR - Sunter	By PT. Reka Teknik Prasarana
Project : PT. INDOCEMENT TUNGGAL PRAKARSA LIGHTING, Gunung Putri	By PT. Serena Sejahtera
Project : PT. INDOCEMENT TUNGGAL PRAKARSA, Gunung Putri	By PT. Mitra Ekatama Expertech PT. Deltapasifik Buanaprima PT. Pribumi Putra
Project : REFENERY - PT. Sari Dumai Medan, Dumai	By CV. Mandiri Sinar Teknik Perkasa
Project : SEMEN KUPANG, TAHAP I DAN II, NTB	By PT. Varia Usaha
Project : SEMEN PADANG	By PT. Bina Kuat Terang
Project : SIK, Jakarta	By PT. Wijaya Muria
Project : ASTRA HONDA MOTOR SUNTER	By. PT. Mega Persada Indonesia

PROJECT REFERENCE

ELPRO STEEL CONDUIT & CABLE SUPPORT SYSTEMS PRODUCT

being used for electrical installation at the following Project

Factory :

Project : SUZUKI, Bekasi	By PT. Taikisha Engineering
Project : TAMAN SAMPOERNA, Surabaya	By PT. Sapta Pusaka Nusantara
Project : TOYO BESQ, Jakarta	By PT. Taiyo Sinar Raya Teknik
Project : TOYOTA THUSO, Jakarta	By PT. Permiko
Project : TVS MOTOR INDIA, Karawang	By PT. Gini Putra Kharisma
Project : UPSTRIN, Jakarta	By PT. Sas International
Project : YAMAHA MOTOR MANUFACTURING, Pulo Gadung	By PT. Asahi Sychrotech Indonesia
Project : YAMAHA MOTOR MANUFACTURING, West Java	By PT. Taiyo Sinar Raya Teknik
Project : AJINOMOTO	By PT. Alfa Hasta Teknik
Project : APM, Krawang	By PT. Mitra Ditosam Indonesia
Project : ASIAN AGRI, Dumai	By PT. Andalas Citra Elektrindo
Project : ASNO HORIE	By PT. Taiyo Sinar Raya Teknik
Project : DJARUM, Kudus	By PT. Djarum
Project : EASTERNTEX	By PT. Meiden
Project : ECCO INDONESIA	By PT. Ayaro Mulya Kontraktor
Project : FACTORY PLANT	By Ispat Indo
Project : FILMA, Surabaya	By PT. Karya Dinamikanusa Cemerlang
Project : GUDANG GARAM, Pandaan	By PT. Pancasila
Project : INCO	By PT. Dinamika Energitama
Project : INDOFOOD, Pandaan	By PT. Jaya Kencana
Project : KAMOJANG	By PT. Tata Udara Nusantara
Project : KIRIN MIWON FOODS, Lampung	By PT. Kokusai Keiso Indonesia
Project : KOMATSU	By ODC Mitra Tehnik
Project : MARS, Makassar	By PT. ODG Wormland
Project : MASPION, Sidoarjo	By PT. Sapta Pusaka Graha Nusantara
Project : MEGASURYA MAS, Sidoarjo	By PT. Megasurya Mas
Project : NESTLE INDONESIA, Sidoarjo	By PT. Sapta Pusaka Graha Nusantara
Project : PABRIK TERIGU, Makassar	By PT. Eastern Pearl Flour Milss
Project : PANASONIC, Krawang	By PT. Aiko Teknindo Sakti
Project : PKS, Medan	By CV. Mandiri Sinar Teknik Perkasa
Project : PT. HONEY LADY	By PT. Dutadaya Dinamika
Project : PURA KERTAS	By PT. Pura Barutama
Project : SAMPOERNA GREENFIELD, Krawang	By PT. SaptaPusaka GrahaNusantara PT. Schneider Indonesia
Project : SAMPOERNA, Pandaan	By PT. Pradiptaya
Project : SHINSEI DHENSI I	By PT. Taiyo Sinar Raya Teknik
Project : SIDOLA	By PT. Multibrata Anugerah Utama
Project : SUMBAWA INERGEN	By PT. ODG Wormland
Project : UNILEVER INDONESIA	By PT. Atlantis Infotama Teknika
Project : WONOKOYA, Pandaan	By PT. Sapta Pusaka Graha Nusantara PT. Schneider Indonesia
Project : AGRI TIMUR MAS GRESIK	By PT. Mitra Pemuda
Project : PABRIK KERTAS	By PT. Mitra Jaya Abadi Sentosa

Food Processing Plant :

Project : GIZINDO PRIMA NUSANTARA, Bandung	By PT. JAYA KENCANA
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Water Supply Plant :

Project : KARANG PILANG PDAM, Surabaya	By PT. Taiyo Sinar Raya Teknik
Project : NTT WATER TREATMENT DEVELOPMENT	By PT. ODG Wormald
Project : PALJA, Pejompongan	By PT. Siemens Indonesia
Project : PDAM, Tangerang	By PT. Tirta Kencana Cahaya Mandiri
Project : UJUNG PANDANG WATER TREATMENT DEVELOPMENT	By PT. Ersu Khabul / SNEP Group
Project : WATER PLACE	By PT. Boosung Ind. M

Airport & Seaport :

Project : AMBON AIRPORT, Maluku	By PT. Adhi Karya
Project : BANDARA HASANUDDIN, Makassar	By PT. Mekaetri Engineering PT. Bilmas Utama
Project : BANDARA UDARA SOEKARNO HATTA, Jakarta	By PT. Jaring Lintas Usaha
Project : JUANDA AIRPORT, Sidoarjo	By PT. Swadaya Graha
Project : NAGOYA AIRPORT, (Garbarata), Nagoya Jepang	By PT. Bukaka Teknik Utama
Project : TELUK BAYUR SEAPORT, Padang	By PT. Cipta Electric

PROJECT REFERENCE

ELPRO STEEL CONDUIT & CABLE SUPPORT SYSTEMS PRODUCT

being used for electrical installation at the following Project

Hotel Apartement, Shopping mall, Office Tower & School :

Project : TIARA MARGA TRAKINDO TOWER, Jakarta	By PT. Mitra Solusi Telematika
Project : APARTEMENT EAST COST, Surabaya	By PT. Bangun Sarana Listrik Persada
Project : AKPOL, Semarang	By PT. Mustika Memadata
Project : BANK DANAMON, Jakarta	By PT. Andhika Graha Teknindo
Project : BANK INDONESIA Gd B	By PT. Hardi Agung
Project : BANK PERMATA, Jakarta	By PT. Prasetya Gema Mulia
Project : BEA CUKAI, Kediri	By PT. Tata Bumi Raya
Project : BRI TOWER, Surabaya	By PT. Pilar Garba Inti
Project : CHEVRON MEDICAL CENTRE, Jakarta	By PT. Jaga Citra Inti
Project : CITRALAND MALL & HOTEL, Jakarta	By PT. Guna Electro
Project : CITY OF TOMORROW	By PT. Surya Marga Luhur
Project : CITY TOWER	By PT. Sapta Kencana Kharisma Jaya
Project : DIAN HARAPAN	By PT. Glenindo
Project : GALERY OF PLATINUM	By PT. BSLP
Project : GEREJA SANTA, Jakarta	By PT. Karya Intertek Kencana
Project : GIANT, Sidoarjo	By PT. Sapta Pusaka Graha Nusantara
Project : GOLDEN CITY, Surabaya	By PT. Saansaka Elektrindo
Project : GRAHA ENERGI, Jakarta	By PT. Adhi Karya
Project : GRAMEDIA EXPO	By CV. Dian Sarana
Project : GRAND INDONESIA	By PT. Jati Bina Citra Handal
Project : HI TECH CENTER	By PT. Star Delta Utama Sakti
Project : HOTEL GUMAYA , Semarang	By PT. Sapta Pusaka Nusantara
Project : HOTEL SHANGRILLA, Jakarta	By PT. Cahaya Bima Sakti
Project : HSBC WTC II, Jakarta	By PT. Primatek Karsindo
Project : INSTITUT TEKNIK SURABAYA	By PT. Rakintam
Project : KELAPA GADING BASKET HALL, Kelapa Gading	By PT. Berca Indonesia
Project : KUKM (KOPERASI USAHA KECIL MENENGAH), Jakarta	By PT. Narwastu Pratama
Project : LSI TAMAN PALEM	By PT. Dwi Wahana
Project : MALL BELLANOVA, Sentul	By PT. Greatech Artanindo
Project : MALL MATARAM II	By PT. Pradiptaya
Project : MANULIFE	By PT. Mustika Memadata
Project : MENARA KUNINGAN	By PT. Tetra Setia
Project : MENARA KUNINGAN, Jakarta	By PT. Narwastu Pratama
Project : MKG V, Jakarta	By PT. Jaga Citra Inti
Project : NOVOTEL HOTEL, Semarang	By PT. Hardy Agung Perkasa
Project : PALADIUM MALL, Medan	By PT. Sumpratama Juru Engine
Project : PANTJA MOTOR SHOWROOM, Bekasi	By PT. Karabha Grya Mandiri
Project : PASAR KRAMAT DJATI, Jakarta	By PT. Iskaba Pratama
Project : PLATINUM, Bekasi	By PT. Bangun Sarana Listrik Persada
Project : PLAZA INDONESIA, Jakarta	By PT. Jaya Kencana
Project : PTC II SUPERMALL	By PT. Sapta Pusaka Nusantara
Project : PURI GARDE, Jakarta	By PT. Noskab Indonesia
Project : PURI MARINAR, Jakarta	By PT. Sapta Pusaka Nusantara
Project : ROYAL PLAZA, Surabaya	By PT. Rakintam
Project : RS. H. SIDOARJO	By CV. Dian Sarana
Project : RSS. SIDOTOPO WETAN	By PT. Jaya Kukuh Wasesa

Hotel Apartement, Shopping mall, Office Tower & School :

Project : RSU HAJI, Surabaya	By PT. Adhi Karya
Project : RUMAH SAKIT PURI INDAH, Jakarta	By PT. Adhi Karya
Project : SAMPOERNA STRATEGIC SQUARE, Jakarta	By PT. Pilar Garba & PT. Mustika Memadata
Project : SHANGRI-LA HOTEL CONDOMINIUM, Jakarta	By PT. Jaga Citra Inti
Project : SUPER MALL, Surabaya	By PT. Boosung Indonesia
Project : SUPERMALL PAKUWON	By PT. Sapta Pusaka Nusantara
Project : TAMAN ANGGREK MALL & APARTEMEN, Jakarta	By PT. Star Delta Utama Sakti
Project : TUNJUNG PLAZA IV, Surabaya	By PT. Boosung Indonesia
Project : YAYASAN SEKOLAH ALLIANCE, Bandung	By PT. Multibrata Anugerah Utama

PROJECT REFERENCE

ELPRO STEEL CONDUIT & CABLE SUPPORT SYSTEMS PRODUCT

being used for electrical installation at the following Project

Data & Communication Project :

Project : BAKRIE TELECOM, Tbk.	By PT. Dwipa Konektra & Salwa Anugerah Semesta
Project : CAREFOUR	By PT. Hewlett Packard Barca Supervisindo
Project : GOODYEAR INDONESIA Tbk, Bogor	By PT. Hewlett Packard Barca Supervisindo
Project : INDOSAT	By PT. Tripatra
Project : INDOSAT I, Bandung	By PT. Maxima Cipta Integrasi
Project : MOBILE 8 I, II & III, Bandung	By PT. Maxima Cipta Integrasi
Project : PERTAMINA-DUMAI, CABLE OPTIC, Pekanbaru	By PT. Tri Indonusa Surya
Project : STANDARD CHARTERED BANK, Jakarta	By PT. Eka Karya Teknik
Project : SUNGIN TEX, Bekasi	By PT. Devrindo Widya
Project : TELKOM, Jakarta	By PT. Panca Makmur Bersama
Project : TELKOMSEL TTC - Buaran, Jakarta Timur	By PT. Hitek
Project : TELKOMSEL, Jakarta	By PT. Mustika Memadata, PT. Insan Jaya & PT. Manunggal Karya Persada
Project : TELKOMSEL, Lampung	By PT. Mustika Memadata
Project : XL, Bandung	By PT. Maxima Cipta Integrasi
Project : XL, Semarang	By PT. Megah Karya Tika Pratama
Project : JAWA POS	By PT. Prima Elektrik Power
Project : TELEKOMUNIKASI	By PT. Cahaya Mutiara Mandiri

Embassy Project :

Project : CANADIAN EMBASSY, HSBC	By PT. Prasetya Gema Mulia (Vinnotti)
Project : THE EMBASSY OF AMERICA, Jakarta	By PT. Bina Mitra
Project : THE EMBASSY OF EGYPT, Jakarta	By PT. Mega Persada Indonesia
Project : THE EMBASSY OF DEUTCH, Jakarta	By PT. Mega Persada Indonesia
Project : THE EMBASSY OF Australia, Bali	By PT. Balfour Beatty Sakti



PT. RAHMI IDA NUSANTARA

JL. MH. THAMRIN, PLAZA AMSTERDAM B No. 50
SENTUL CITY – BOGOR 16810
INDONESIA

PH (+62 21) 8796 2255-59; FAX (+62 21) 8796 2256

STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



PREQUALIFICATION DOCUMENT ISO 9001 : 2008 CERTIFIED

Section 5

ELPRO Certifications

Website : elprosteel.com

E-mail : sales.jkt@elprosteel.com

MARKETING SERVICE COMPANY

PT. RAHMI IDA NUSANTARA

Jakarta: Ph. (+62-21) 8796 2255-59 Fax. (+62-21) 8796 2256 Email: sales.jkt@elprosteel.com

Semarang: Ph. (+62-24) 6590 555-6 Fax. (+62-24) 6890 565 Email: sales.smg@elprosteel.com

Surabaya: Ph. (+62-31) 843 0999 Fax. (+62-31) 8414 430 Email: sales.sby@elprosteel.com

www.elprosteel.com



Certificate of Registration

This certificate has been awarded to

PT RAHMI IDA NUSANTARA

KITS Jl Terboyo Industri Barat Dalam 2 # M 111, Semarang 50118, Jawa Tengah, Indonesia

in recognition of the organization's Quality Management System which complies with

ISO 9001:2008

The scope of activities covered by this certificate is defined below

Manufacture of Conduit Pipe and Cable Tray

Certificate Number:

44529/A/0001/UK/En

Issue No:

2

Date of Issue: (Original)

10 March 2011

Expiry Date:

09 March 2017

Date of Issue:

10 March 2014

Issued by:

On behalf of the Schemes Manager





Certificate of Registration

This certificate has been awarded to

PT RAHMI IDA NUSANTARA

KITS JI Terboyo Industri Barat Dalam 2 # M 111, Semarang 50118, Jawa Tengah, Indonesia

in recognition of the organization's Health and Safety Management System which complies with

OHSAS 18001:2007

The scope of activities covered by this certificate is defined below

Manufacture of Conduit Pipe and Cable Tray

Certificate Number:

44529/B/0001/UK/En

Issue No:

2

Date of Issue: (Original)

24 May 2013

Expiry Date:

23 May 2019

Date of Issue:

24 May 2016

Issued by:

On behalf of the Schemes Manager





TOTAL E&P INDONESIA

PJC-VP-4999-LET-13009

To : **PT. Rahmi Ida Nusantara**
Attn. Mr. Redi Nusantara
Kawasan Industri Terboyo Blok M111
Semarang 50118 – Indonesia

Subject : **Approval of Electrical products**

Jakarta, May 17th, 2013

Dear Sir,

TOTAL E&P Indonesia (TEPI) is pleased to inform you that further our Vendor Assessment Program process, **PT. RAHMI IDA NUSANTARA** has been granted the qualification status to be on TOTAL E&P Indonesia Approved Vendor List and therefore authorized to participate to any Call for tender issued by TOTAL E&P Indonesia for the following products/equipments:

Cable Tray	Carbon steel hot deep Galvanized
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This qualification is granted with the following conditions:

Applicable date of Qualification:

November 20th 2012

Duration of the Qualification:

This qualification is limited to **2 years** starting from the date of approval and can be subject to renewal or withdrawal at TOTAL E&P Indonesia sole discretion.

Jakarta Head Office: World Trade Center II, Metropolitan Complex, Jl. Jenderal Sudirman Kav. 29 – 31, Jakarta 12920 - Indonesia
Tel. +62 (21) 523 1999. Fax. +62 (21) 523 1888. P.O. Box 1010/Jkt 10010

East Kalimantan District Office: Jl. Yos Sudarso, Balikpapan 76123. East Kalimantan - Indonesia
Tel. +62 (542) 53 3999. Fax. +62 (542) 53 3888. P.O. Box 606/Bpp 76106

Registered Office: 2, place Jean Millier – La Défense 6, 92400 Courbevoie, France

TOTAL E&P INDONESIA: Société Anonyme au capital de 623 728 035 euros
Siège social : 24 cours Michélet - 92800 Puteaux - France - 542 034 921 RCS Nanterre



TOTAL E&P INDONESIA

Limitation of the qualification:

This qualification is strictly limited to the product/equipment listed above and limited also to the following facility:

PT. RAHMI IDA NUSANTARA
located in Kawasan Industri Terboyo
Blok M 111 – Semarang 50118
Middle Java – Indonesia

This qualification does not apply to any other product/equipment, site or any other facility of your company, any other entity of your group, or any other legal entity to which your company may be linked.

Technical reference:

TOTAL E&P General Specification(s):

- GS EP ELE 311; Cable Trays/ Ladders

General Conditions:

This qualification is the result of TOTAL E&P Indonesia Vendor Assessment Program methodology based on:

- Technical audit questionnaires,
- Site audit performed in your facilities (Refer to TEPI Vendor assessment report September 12th to 14th 2011),
- CAR closure visit performed on March 5th to 6th, 2012 (Refer to TEPI Follow up assessment report March 5th to 6th, 2012),
- Internal TOTAL E&P Indonesia Committee validation.

This qualification is based on required prerequisite conditions of Quality, technical and HSE standards. In case of Vendor failing to maintain such conditions and standards for the qualified products or facilities, TOTAL E&P Indonesia reserves its rights, at its sole discretion, to withdraw immediately and without prior notice this qualification.

Particular Conditions:

Further PT. RAHMI IDA NUSANTARA Follow Up Assessment visit, some Corrective Action Requests (CAR) still remain "Open" (10 CARs), "Open for remaining" (4 CARs) and "Close with comment" (13 CARs) as per list below and are still requiring follow up from vendor.

Remaining applicable corrective actions:

CAR (Open or close with comments)	Criticality	Status
CAR No. 1 of 4, item 2: General. Close out detail from Vendor: Segregation of mild steel and stainless steel material storage, assembling/welding, finished good storage in workshop already done. CPY comment on March 1st 2012:	Major	Open for remaining

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<p>Intermediate process and finished product. As seen on workshop area, it was well implemented.</p> <p>Same machine for both SS and CS process in punching, bending and cutting. Specific work instructions shall be established as guidance in operation to prevent any contamination in stainless steel or mitigation plan if using the same equipments.</p>		
<p>CAR No. 2 of 4, Item 1&2: Production Close out detail from vendor: Hazard signs or warning signs will be enhanced in cutting area. Completion date on 28 Feb 2012.</p> <p>CPY comment on March 1st 2012: PT RIN makes a plan to add hazard signs, safety information, PPE required in each machine and production area. A subcontractor was used to design and perform this activity. PO has been issued and finished planning on the end of March 2012.</p>	Open	Minor
<p>CAR No 2 of 4, item 5: Production Close out detail from vendor: Pickling procedure will be completed on mid of Feb 2012 and prepare the pickling area.</p> <p>CPY comment on March 1st 2012: Pickling procedure was not established yet.</p>	Open	Critical
<p>CAR No. 2 of 4 item 6: Production Close out detail from vendor: Segregation and identification stainless steel plate and mild steel material.</p> <p>CPY comment on March 1st 2012: Stainless steel and carbon steel placements have been segregated in the material storage, intermediate process and finished product. As seen on workshop area, it was well implemented.</p> <p>Same machine for both SS and CS process in punching, bending and cutting. Specific work instruction shall be established as guidance in operation to prevent any contamination in stainless steel.</p>	Open for remaining	Critical
<p>CAR No. 2 of 4 item 7: Production Close out detail from vendor: Leader will do regularly checking of the material storage.</p> <p>CPY comment on March 1st 2012: Improvement was well conducted. Materials were stored adequately. But work instruction or procedure should be prepared as guidance for operation.</p>	Close with comments	Major
<p>CAR No. 2 of 4 item 10: Production Close out detail from vendor: Work order that stated specification of product and number of product will be started on 24 Jan 2012. Non conforming materials such as repair product are returned to PI (Intern Production) and repaired, so there is no area for non conforming materials.</p> <p>CPY comment on March 1st 2012: Identification method was used to segregate non-conformity materials; no specific place was defined since rarely found non-conformity materials from suppliers and subcontractors.</p>	Close with comments	Major
<p>CAR No. 3 of 4 item 1: QC Close out detail from vendor: Testing procedures and others documents related to the customer requirements will be translated in English. Final completion on June 2012.</p>	Close with comments	Major

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<p><u>CPY comment on March 1st 2012:</u> Vendor has revised some procedures in English such as Quality System procedure for Inspection and Testing No PSM-0001 rev.A3, work instruction Incoming Material No IK-1001-A2 rev.A0. Another procedure was on progress for improvement.</p>		
<p><u>CAR No. 3 of 4 item 3: QC</u> <u>Close out detail from vendor:</u> Drawing distribution will be improved by make a distribution form that provides customer name, date of distribution, and personal that prepared, checked, and approved. Completion date on mid Feb 2012.</p> <p><u>CPY comment on March 1st 2012:</u> External documents control was not improved yet. Still same condition as previous visit. Log book was used by engineering department to monitor drawings distribution on production. Identification of drawings by using stamping was well implemented.</p>	Open for remaining	Major
<p><u>CAR No. 3 of 4 item 5: QC</u> <u>Close out detail from vendor:</u> Arrange stainless steel welding training and prepare WPS / PQR for stainless steel product. Completion date in May 2012.</p> <p><u>CPY comment on March 1st 2012:</u> Work Instruction for Stainless Steel Welding process was established as per guidance from electrode manufacture. Vendor show willingness to enhance their skills by taking course in MIGAS - Cepu. PQR for stainless steel was on progress for evaluation by MIGAS - Cepu.</p>	Open for remaining	Critical
<p><u>CAR No. 3 of 4 item 9: QC</u> <u>Close out detail from vendor:</u> Test report will be conducted on June 2012.</p> <p><u>CPY comment on March 1st 2012:</u> Vendor has contacted some testing bodies such as Lloyds and BV for product certification. Vendor agrees to do testing as per NEMA requirements during CPY project.</p>	Open	Critical
<p><u>CAR No. 4 of 4 item 1: HSE</u> <u>Close out detail from vendor:</u> Make safety signs around the process of punching and prepare warning signs on the machine.</p> <p><u>CPY comment on March 1st 2012:</u> PT RIN makes a plan to add hazard signs, safety information, PPE required in each machine and production area. A subcontractor was used to design and perform this activity. PO has been issued and finished planning on the end of March 2012.</p>	Open	Minor
<p><u>CAR No. 4 of 4 item 2: HSE</u> <u>Close out detail from vendor:</u> Create safety signs in the punching process. Installing an additional hazard signs on the machine, improve gas storage and welding cable arrangement.</p> <p><u>CPY comment on March 1st 2012:</u> PT RIN makes a plan to add hazard signs, safety information, PPE required in each machine and production area. A subcontractor was used to design and perform this activity. PO has been issued and finished planning on the end of March 2012.</p>	Open	Minor
<p><u>CAR No. 4 of 4 item 8: HSE</u></p>	Close with	Minor

TOTAL E&P INDONESIA

<p><u>Close out detail from vendor:</u> Procedure to systematically remind HSE instructions will be developed and our target it will be completed in May 2012.</p> <p><u>CPY comment on March 1st 2012:</u> New procedure 'Instruksi Kerja' Safety Meeting No IK-K3L-11 rev.0 date 10/2/2012 has been developed that mentions regular safety briefing conducted once a month. It was on progress for implementation.</p>	<p>comments</p>	
<p><u>CAR No. 4 of 4 item 9: HSE</u> <u>Close out detail from vendor:</u> Policy for managing risks in land transportation will be defined and completed in June 2012.</p> <p><u>CPY comment on March 1st 2012:</u> Vendor has developed policy for land transportation in the Safety Manual and breakdown into Work Instruction Keselamatan Berkendaraan No IK-K3L-07 and Work Instruction Pedoman Keselamatan Kerja dan Lingkungan No IK-K3L10. It was on progress for implementation.</p>	<p>Close with comments</p>	<p>Minor</p>
<p><u>CAR No. 4 of 4 item 10: HSE</u> <u>Close out detail from vendor:</u> Lifting equipments already certified by government on 17 Jan 2012. The certification will be received on 24 Jan 2012.</p> <p><u>CPY comment on March 1st 2012:</u> Periodical maintenance was conducted by Overhead crane manufacturing - Demag every 6 month. Periodical certification was performed by government every 2 years and it was certified as seen on report No 563-564/KK/PA/2012. Additional comment is given to webbing equipment, there was no control and inspection activity, and it was seen in improper condition.</p>	<p>Open for remaining</p>	<p>Minor</p>
<p><u>CAR No. 4 of 4 item 11: HSE</u> <u>Close out detail from vendor:</u> The implementation of housekeeping policy had been enhanced in the whole workshop and monitor periodically.</p> <p><u>CPY comment on March 1st 2012:</u> Housekeeping policy has been established on Work Instruction System Ijin Kerja No IK-K3L-04 rev.0 date 10/2/2012. It was on progress for implementation.</p>	<p>Close with comments</p>	<p>Minor</p>
<p><u>CAR No. 4 of 4 item 12: HSE</u> <u>Close out detail from vendor:</u> Effective permit to work system including complementary permits in place for confined space, lifting operations will be developed and completed in September 2012.</p> <p><u>CPY comment on March 1st 2012:</u> Working permit procedure has been established on Work Instruction System Ijin Kerja No IK-K3L-09 rev.0 date 10/2/2012. It was on progress for implementation.</p>	<p>Close with comments</p>	<p>Minor</p>
<p><u>CAR No. 4 of 4 item 13&14: HSE</u> <u>Close out detail from vendor:</u> Waste management policy will be developed and our target it will be completed in April 2012.</p> <p><u>CPY comment on March 1st 2012:</u></p>	<p>Close with comments</p>	<p>Minor</p>

TOTAL E&P INDONESIA

<p>Waste handling procedure was developed in work instruction Penanganan Limbah No IK-K3L-06.</p> <p>Implementation in the workshop has been well conducted as seen on segregation of organic, inorganic and hazardous waste. Nevertheless dedicated subcontractor has not defined yet to handle hazardous waste.</p>		
<p>CAR No. 4 of 4 item 15: HSE Close out detail from vendor: Policy to manage the occupational risks for health will be developed and completed in June 2012.</p> <p>CPY comment on March 1st 2012: Vendor has developed commitments to manage the occupational risk for health as mentioned in the Safety manual and some improvements such as commit to implementation of HSE system, improve safety in the working area and prepare PPE for all employees.</p>	Close with comments	Minor
<p>CAR No. 4 of 4 item 16: HSE Close out detail from vendor: Procedure related to management of hazardous products will be developed and completed in June 2012.</p> <p>CPY comment on March 1st 2012: Hazardous material procedure was not defined yet. MSDS were placed in storage and working area that use hazardous materials.</p>	Open	Minor
<p>CAR No. 4 of 4 item 18: HSE Close out detail from vendor: Medical check-up policy in place and implemented for all personnel on site with criteria for medical fitness as per government regulation will be planned and we hope it will be implemented at the end of 2012.</p> <p>CPY comment on March 1st 2012: Medical check-up policy was mentioned in the Safety Manual, implementation was on progress.</p>	Open	Minor
<p>CAR No. 4 of 4 item 20: HSE Close out detail from vendor: Warning panels and safety recommendations in the workshop will be enhanced.</p> <p>CPY comment on March 1st 2012: PT RIN makes a plan to add hazard sign, safety information, PPE required in each machine and production area. A subcontractor was used to design and perform this activity. PO has been issued and finished planning on the end of March 2012.</p>	Open	Minor
<p>CAR No. 4 of 4 item 21: HSE Close out detail from vendor: Policy for evaluating suppliers HSE performance will be defined and completed in June 2012.</p> <p>CPY comment on March 1st 2012: Policy to evaluate supplier HSE performance was defined in the HSE Manual, but it was not implemented yet.</p>	Open	Minor
<p>CAR No. 4 of 4 item 22: HSE Close out detail from vendor: General and specific HSE training program for site employees will be established and completed in June 2012.</p>	Open	Minor



TOTAL E&P INDONESIA

<p><u>CPY comment on March 1st 2012:</u> Vendor just improved by establishing HSE management system. Training activity to HSE officer was still on planning. Vendor policy related to HSE has been briefed for all employees.</p>		
<p><u>CAR No. 4 of 4 item 25: HSE</u> <u>Close out detail from vendor:</u> Fire extinguishers will be checked periodically by HSE personnel.</p> <p><u>CPY comment on March 1st 2012:</u> System and check sheet has been prepared, but it was on progress for implementation.</p>	Close with comments	Minor
<p><u>CAR No. 4 of 4 item 27: HSE</u> <u>Close out detail from vendor:</u> In process, include OHSAS management system. Completion date in May 2012.</p> <p><u>CPY comment on March 1st 2012:</u> HSE audit and inspection policy has been mentioned in the HSE manual. Inspection has been conducted in daily basis and system audit was still planned since HSE implementation has just begun.</p>	Close with comments	Minor
<p><u>CAR No. 4 of 4 item 28: HSE</u> <u>Close out detail from vendor:</u> In process, include OHSAS management system. Completion date in May 2012.</p> <p><u>CPY comment on March 1st 2012:</u> Daily inspection was well performed in the workshop to evaluate implementation of safety awareness, PPE wearing, 5R. Result of inspection was analyzed and improved.</p>	Close with comments	Minor
<p><u>CAR No. 4 of 4 item 30: HSE</u> <u>Close out detail from vendor:</u> In process, include OHSAS management system. Completion date in May 2012.</p> <p><u>CPY comment on March 1st 2012:</u> Vendor has established incident investigation procedure and related form - Laporan Investigasi Kecelakaan Kerja- No F-K3L-14. It was not implemented since any accident in 2012.</p>	Close with comments	Minor

Vendor is informed that in case of direct or indirect participation to any Procurement process on behalf of TOTAL E&P Indonesia or for any Project conducted by TOTAL E&P Indonesia, TOTAL E&P Indonesia at its sole discretion, reserve its rights to accept and/or reject vendor bid proposal and/or proposed products if any of the remaining CAR is still open or not Clarified with a proper follow-up during the procurement process.

This qualification does not create any contractual relationship whatsoever between TOTAL E&P Indonesia and PT RAHMI IDA NUSANTARA, or any commitment from TOTAL E&P Indonesia whatsoever to use and/or to place any order to the qualified vendor.

This qualification does not give any right to the qualified vendor to ask for any claim and/or any liability particularly in the case of withdrawal of this qualification.



TOTAL E&P INDONESIA

TOTAL E&P Indonesia reserves its right to alter at any time in its Vendor Assessment Program methodology the criteria to qualify vendors in the field(s) defined above. This alteration, which could be indicated by the transmittal of new questionnaires, and by the decision to carry out an additional audit, will be reported to vendor in proper time.

Sincerely Yours,
TOTAL E&P INDONESIA

A handwritten signature in blue ink, appearing to read "Cambefort", written over a horizontal line.

Nicolas CAMBEFORT
VP Project Construction

A handwritten signature in black ink, appearing to be a stylized "N" or similar mark.

Nb. of pages : 8 pages
Int. copy :
File :

Material Delivery Certificate

Serial No. : 0C059-681 BA-D420-00
Project Name : Paiton-III Expansion Project
Attention : Mr. Yasuhide Nishimura
Destination :
 PAITON-III EXPANSION PROJECT CONSTRUCTION SITE OFFICE
ADDRESS : Jl. Raya Surabaya – Situbondo Km. 141, Paiton,
 Probolinggo, 67291, Jawa Timur, Indonesia
ATTENTION : Mr. Yasuhide Nishimura
E-MAIL ADDRESS : y_nishimura@site.paiton-const.com
TEL : 0335-771170
Fax : 0335-771207

Supplier : PT. RAHMI IDA NUSANTARA

Delivery Date : 14-8-10

Description : Cable Tray

RIR No. RIR-MC-Wasa-10-00552

(Please refer Delivery Order / Packing List No. 011/DO-RIN-GNAVIII/10)

[Acknowledgment]

We hereby certify our receipt of the above goods.

Certified Date :

24 August, 2010

BY



YASUHIDE NISHIMURA

PAITON-III EXPANSION PROJECT CONSTRUCTION SITE OFFICE

REMARKS : The signing of the Material Delivery Certificate does not release in any way the Seller from its obligation under the Contractual terms and warranty of the Goods.

If during the final inspection (which may be made after the return of the Material Delivery Certificate to the Seller), is found that Goods are discrepant in specification, quantities etc from related Contract, then the Seller shall accordingly take immed

The Seller understands that this condition is essential for payment and therefore may submit the Material Delivery Certificate for the purpose of payment



MITSUI & CO., LTD.



PT. WASA MITRA ENGINEERING

Paiton-3 Expansion Project (815 MW Coal Fired Pow)

Receiving Inspection Report (RIR)


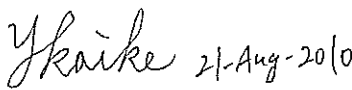
PROJECT NAME : (815 MW Coal Fired Power Plant)				
Reference No.	DPL. No.	011/DO-RIN-GNA/VIII/10	RIR No.	RIR-MC-Wasa-10-00552
I/V No. / Vendor Name - PT. RAHMI IDA NUSANTARA				
Package No.	Receiving Date	Inspection Date	UOS&D	UOS&D No.
011/DO-RIN-GNA/VIII/10	2010/08/14	2010/08/14		

Description Noted on Freight Bill :

Carrier Notified : Yes No Before After Unloading Date of Notification : _____

Inspection for Carrier by : _____

Carrier Inspection Report No. :

WASA Inspector Sign 	(MBK Site Material Controller) I hereby certify the above report to be true and in accordance with condition of goods upon receipt 	
Name A. Rochim Date 20/8/2010	Name Y. Koike Date	

Remarks



Office: Jakarta

Date: 24 March 2014

This certificate is issued to

PT. RAHMI IDA NUSANTARA
Kawasan Industri Terboyo Blok M 111
Semarang 50118, Indonesia

to certify that the undersigned did attend at PT. Rahmi Ida Nusantara workshop at the above address on 19 March 2014 for the purpose of witnessing the loading test of Metallic Cable Tray type Straight Ladder Cable, the items as follows :

No	Description	Make	Dimension	Designation Code
1	Straight Ladder, material JIS G3131 SPHC, thickness 2.22mm	RAHMI	600W X 152H X 3700L	NEMA 12C
2	Straight Ladder, material ASTM A-240 GR.304L, thickness 2.0mm	RAHMI	600W X 100H X 3000L	NEMA 10D
3	Straight Ladder, material Aluminium Extruded, thickness 3.1mm	RAHMI	600W X 150H X 3700L	NEMA 12C

The following scope of inspection was carry out in accordance with National Electric Manufacturers Association (NEMA) Publication No. VE 1, 2002 Edition.

Now Done

1. Witness preparation the loading test as per the above Code.
2. Witness the loading test applied on the cable tray type straight ladder, the test load is working load multiply by safety factor 1.50.

Base on the above satisfactory result of the testing, it is concluded that the cable tray listed above, generally comply with the aforesaid Code Requirements.

This certificate is to be read in conjunction with the inspection shop's data dossier of which form an integral part.



INDRA HERIAMAN
Surveyor to PT. Lloyd's Register INDONESIA

A subsidiary of Lloyd's Register Group Limited

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



PT. RAHMI IDA NUSANTARA

Steel Pipe Conduit and Cable Support System Manufacturer

Head Office : Jl. MH. Thamrin Plaza Amsterdam B50 Sentul City - Bogor 16810
 phone (021) 87962255 (hunting) fax (021) 87962256
 Factory : Kawasan Industri Terboyo Blok M 111, Semarang 50118,
 phone (024) 6590555-6 Fax (024) 6590565



LOADING TEST REPORT

Name : PT. Rahmi Ida Nusantara Date : 19 Maret 2014
 Type : Straight Ladder JIS G3131 SPH Thickness : 2.22 mm
 Size : 600W x 152H x 3700L Standard : - NEMA VE 1-2002/CSA C22.2 No. 126.1-02
 - Table 1 - 12 C

Data Loading :
 Span : 3.7 M
 Load : 149 Kg/M
 Min. Total Load : 149 x 3.7 x 1.5 = 826.95 Kg.

Time	Actual Load (Kg)	Deflection (mm)			Residual Deflection (mm)		
		X1	X2	X3	X1	X2	X3
16.00	0	0	0	0			
16.05	102.2	2	2	3			
16.10	209.6	4	4	5			
16.15	316.3	4	4	5			
16.20	416.3	6	6	7			
16.25	523.7	8	8	8			
16.30	624.9	9	9	10			
16.35	729.3	9	11	11			
16.40	830.5	11	13	13			
16.55	830.5	11	13	13			
17.00	0				0	0	2
17.10	932.2						
17.20	1362.9						
17.30	1604.7						
17.40	1945.1						
17.50	2053.1						
18.00	2168.5	Destroyed					

Sketch :



$$\text{The Rate Load Capacity} = \frac{\text{The Destruction Load}}{\text{Safety factor}}$$

$$= \frac{2168.5}{1.5} = 1445.6 \text{ Kg}$$

Prepared by
QA, QC Manager

PT. RAHMI IDA NUSANTARA
 Andre Jamanto 19/03/14

Witness by
PT. Lloyd's Register Indonesia
 Initial: IH
 Jakarta Office

Indra Heriawan 19/03/2014

Result : Accepted
 Rejected



PT. RAHMI IDA NUSANTARA

Steel Pipe Conduit and Cable Support System Manufacturer



Head Office : Jl. MH. Thamrin Plaza Amsterdam B50 Sentul City - Bogor 16810

phone (021) 87962255 (hunting) fax (021) 87962256

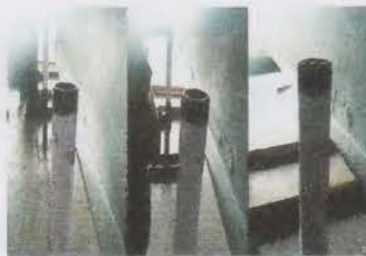
Factory : Kawasan Industri Terboyo Blok M 111, Semarang 50118,

phone (024) 6590555-6 Fax (024) 6590565

Photograph

Straight Ladder JIS G3131 SPH

**Residual
Deflection Measurement at 830.5 Kg**



Destructive



Date : 19 March 2014

Prepared by
QA / QC Manager

**PT. RAHMI IDA
NUSANTARA**

Andre Jaymanto

19/03/14

Witness by
PT. Lloyd Register Indonesia

PT. Lloyd's Register Indonesia
Initial: IH
Jakarta Office

Indra Heriaman

19/03/2014



PT. RAHMI IDA NUSANTARA

Steel Pipe Conduit and Cable Support System Manufacturer

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Factory : Kawasan Industri Terboyo Blok M 111, Semarang 50118,
phone (024) 6590555-6 Fax (024) 6590565



LOADING TEST REPORT

Name	: PT. Rahmi Ida Nusantara	Date	: 19 Maret 2014
Type	: Straight Ladder ASTM A-240 Gr 304L	Thickness	: 2.0 mm
Size	: 600W x 100H x 3000L	Standard	: - NEMA VE 1-2002/CSA C22.2 No. 126.1-02 - Table 1 - 10 D

Data Loading :

Span	: 3 M
Load	: 179 Kg/M
Min. Total Load	: 179 x 3 x 1.5 = 805.5 Kg.

Time	Actual Load (Kg)	Deflection (mm)			Residual Deflection (mm)		
		X1	X2	X3	X1	X2	X3
9.00	0	0	0	0			
9.05	104	3	6	4			
9.10	206	6	9	6			
9.15	313,8	7	12	9			
9.20	444,5	10	15	12			
10.00	444,5	10	15	12			
10.10	0				0	0	2
10.15	593,8	15	21	19			
10.20	703,5	18	30	27			
10.30	813,1	24	37	36			
11.00	813,1	24	37	36			
11.00	0				7	15	21
11.10	917,1						
11.15	1024,8						
11.20	1132,6						
11.25	1186,3						
11.30	1224,7	Destroyed					

Sketch :



$$\text{The Rate Load Capacity} = \frac{\text{The Destruction Load}}{\text{Safety factor}}$$

$$= \frac{1224,7}{1,5} = 816,47 \text{ Kg}$$

Prepared by
QA, QC Manager

PT. RAHMI IDA
NUSANTARA
Andre Jamanto

19/03/14

Witness by
PT. Lloyd Register Indonesia



Indra Heriawan 19/03/2014

Result : Accepted



Rejected





PT. RAHMI IDA NUSANTARA

Steel Pipe Conduit and Cable Support System Manufacturer

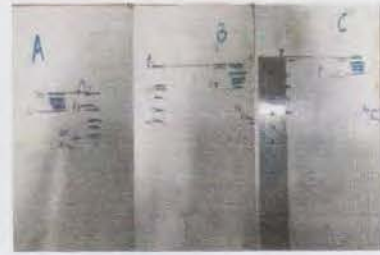


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Photograph

Straight Ladder A-240 Gr 304L

Residual Deflection Measurement at 444.5 Kg



Deflection Measurement at 813.1 Kg



Destructive



Date : 19 March 2014

Prepare by
QA / QC Manager

PT. RAHMI IDA
NUSANTARA

Andre Jamanto

19/03/14

Witness by
PT. Lloyd Register Indonesia

PT. Lloyd's Register Indonesia
Initial: IH
Jakarta Office

Indra Heriaman

19/03/2014



PT. RAHMI IDA NUSANTARA

Steel Pipe Conduit and Cable Support System Manufacturer

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 Factory : Kawasan Industri Terboyo Blok M 111, Semarang 50118,
 phone (024) 6590555-6 Fax (024) 6590565



LOADING TEST REPORT

Name : PT. Rahmi Ida Nusantara Date : 19 Maret 2014
 Type : Straight Ladder Aluminium Extruded Thickness : 3.1 mm
 Size : 800W x 152H x 3700L Standard : - NEMA VE 1-2002/CSA C22.2 No. 126.1-02
 - Table 1 - 12 C

Data Loading :
 Span : 3.7 M
 Load : 149 Kg/M
 Min. Total Load : 149 x 3.7 x 1.5 = 826.95 Kg.

Time	Actual Load (Kg)	Deflection (mm)			Residual Deflection (mm)		
		X1	X2	X3	X1	X2	X3
13.00	0	0	0	0			
13.10	102.5	4	4.5	4			
13.15	208.3	6	6	6			
13.20	308.5	7	8	8			
13.25	416.9	10	12	10			
13.45	416.9	10	12	10			
13.50	0				1.5	2	2
13.55	515.7	13	15	12			
14.00	626	15	17	14			
14.15	626	15	17	14			
14.20	0				1.5	2	2
14.25	720.4	16	20	16			
14.30	831.4	18	23	18			
15.00	831.4	18	23	18			
15.05	0				1.5	2	2
15.10	929.5						
15.12	1035.1						
15.15	1136.2						
15.18	1250.1						
15.20	1345.5						
15.25	1396.1	Destroyed					

Drawing



$$\text{The Rate Load Capacity} = \frac{\text{The Destruction Load}}{\text{Safety factor}}$$

$$= \frac{1396.1}{1.5} = 930.7 \text{ Kg}$$

Prepared by
 QA, QC Manager
PT. RAHMI IDA NUSANTARA
 Andre Jamanto
 19/03/14

Witness by
 PT. Lloyd Register Indonesia
Lloyd's Register Indonesia
 Initial: IH
 Jakarta Office
 Indra Heriaman
 19/03/2014

Result : Accepted
 Rejected



PT. RAHMI IDA NUSANTARA

Steel Pipe Conduit and Cable Support System Manufacturer



Head Office : Jl. MH. Thamrin Plaza Amsterdam B50 Sentul City - Bogor 16810
 phone (021) 87962255 (hunting) fax (021) 87962256
 Factory : Kawasan Industri Terboyo Blok M 111, Semarang 50118,
 phone (024) 6590555-6 Fax (024) 6590565

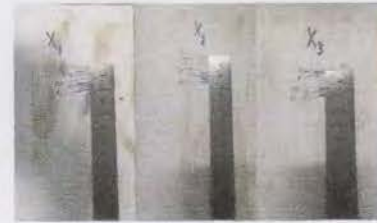
Photograph

Straight Ladder Aluminium

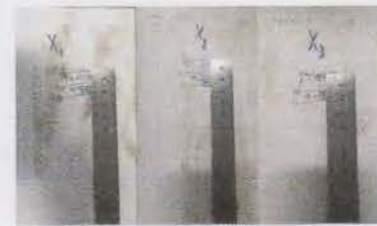
Residual
 Deflection Measurement at 416.9 Kg



Deflection Measurement at 626 Kg



Deflection Measurement at 831.8 Kg



Destructive



Date : 19 March 2014

Prepared by
 QA / QC Manager

PT. RAHMI IDA
 NUSANTARA

Andre Jamanto

19/03/14

Witness by
 PT. Lloyd Register Indonesia

PT. Lloyd's Register Indonesia
 Initial: IH
 Jakarta Office

19/03/2014



PT. RAHMI IDA NUSANTARA

Plaza Niaga I Blok D No. 5 Bukit Sentul, Bogor 16810 - Indonesia,
Ph. (+62 - 21) 87962255-59 Fax. (+62 - 21) 87962256



Quality
Endorsed
Company
ISO
9001:2000

Steel Conduit Pipe & Cable Support Systems Manufacturer

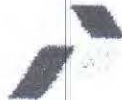
FINAL DOCUMENT

CUSTOMER



PT. REKAYASA INDUSTRI

CLIENT



PERTAMINA

**PT. PERTAMINA (PERSERO)
UP VI - BALONGAN
INDRAMAYU - WEST JAVA
INDONESIA**

PROJECT

RCC OFF GAS TO PROPYLENE PLANT

EQUIPMENT

**CABLE SUPPORT (CABLE LADDER
HEAVY DUTY & CABLE TRAY)**

REFERENCE

PO : ROP-PO-00-2182-251R-E-0

Website : www.elprosteel.com

E-mail : sales.jkt@elprosteel.com

Marketing Service Company
PT. Rahmi Ida Nusantara

Jakarta : Ph. (+62 - 21) 879 62255-59 Fax. (+62 - 21) 879 62256
Semarang : Ph. (+62 - 24) 659 0555-6 Fax. (+62 - 24) 659 0565 Surabaya Ph. (+62 - 31) 843 0999 Fax. (+62 - 31) 849 0989
Balikpapan : Ph. (+62 - 812) 9610787

FINAL DOCUMENTS

(Vendor Doc.)

KALTIM-5 PROJECT BONTANG, KALIMANTAN, INDONESIA

Plant Name : 2500 MTPD Ammonia Plant
: 3500 MTPD Urea Plant

Vendor Name : PT. RAHMI IDA NUSANTARA

File No.(Item) : K5-00-E11-MR-008-I Rev. 2
: K5-00-E11-PO-008-I

Service Name : STANCHION, CONDUIT FITTINGS
: & STEEL MATERIAL

December ,2013

FINAL DOCUMENTS

(Vendor Doc.)

KALTIM-5 PROJECT BONTANG, KALIMANTAN, INDONESIA

Plant Name : 2500 MTPD Ammonia Plant
: 3500 MTPD Urea Plant

Vendor Name : PT. RAHMI IDA NUSANTARA

File No.(Item) : K5-00-E10-ER-031-I Rev. 1
: K5-00-E10-PO-031-I

Service Name : ELECTRICAL
: CONDUIT & FITTINGS

April ,2013

FINAL DOCUMENTS

(Vendor Doc.)

KALTIM-5 PROJECT BONTANG, KALIMANTAN, INDONESIA

Plant Name : 2500 MTPD Ammonia Plant
: 3500 MTPD Urea Plant

Vendor Name : PT. RAHMI IDA NUSANTARA

File No.(Item) : K5-00-E10-ER-023-I Rev. 1
: K5-00-E10-PO-023-I

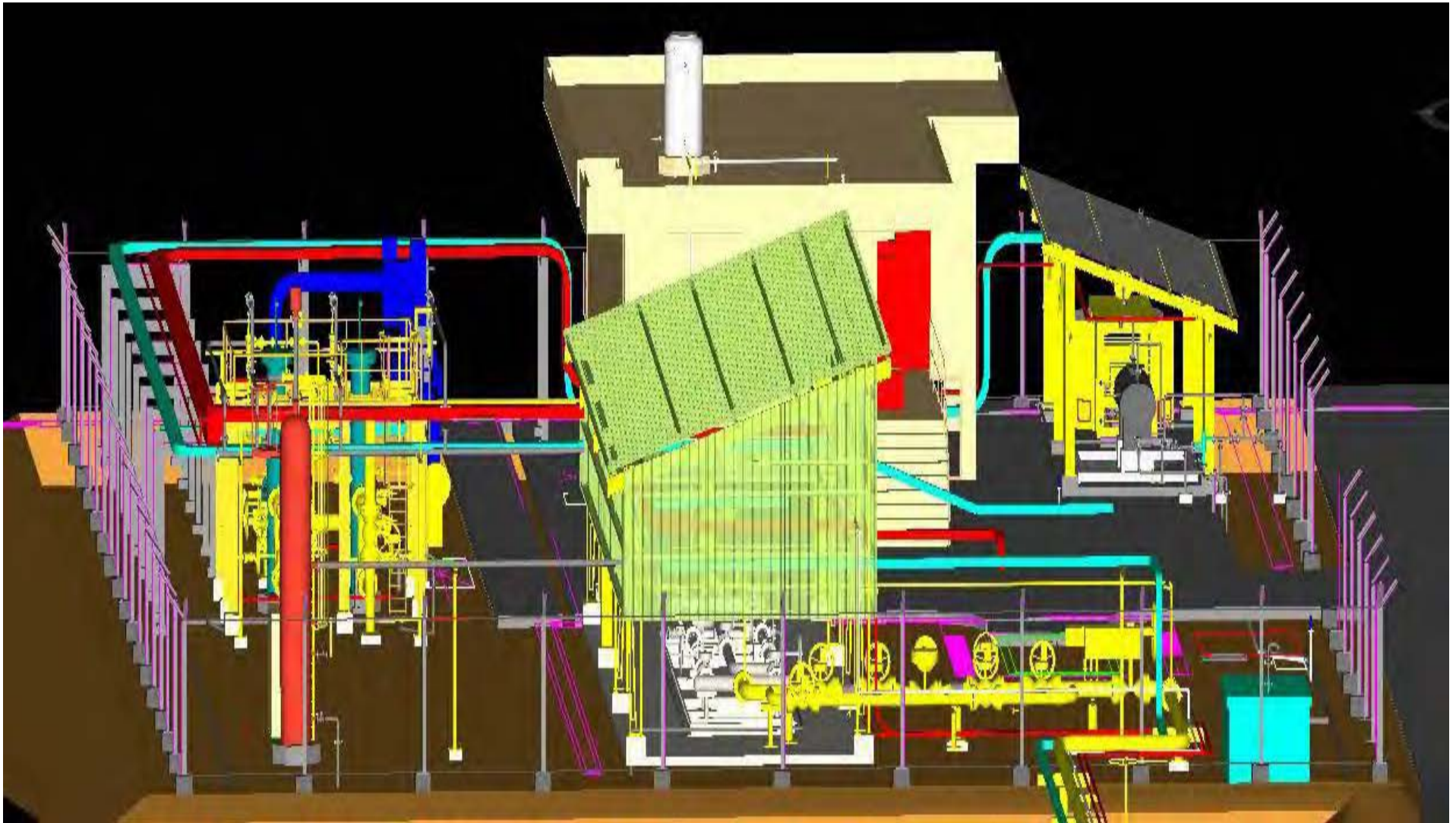
Service Name : ELECTRICAL TRAY HDG

June ,2013

JAMBI MERANG DEVELOPMENT PROJECT
EPC GAS METERING AT GRISSIK
Contract No. 450001473

VOLUME #1

**MANUFACTURE DATA RECORD
CONDUIT & FITTINGS**



SECTION #2 DOCUMENT VENDOR

BOOK 1 OF 1

PT. RAHMI IDA NUSANTARA (GRS-PO-E-005D)

CONSORTIUM

PT. SULUH ARDHI ENGINEERING (SAE)



PT. MEGA PRATAMA UNGGUL (MPU)



PT. RAHMI NUSANTARA

2014

ORIGINAL



FINAL DOCUMENTS

(Vendor Doc.)

PUSRI-IIB PROJECT PALEMBANG, SOUTH SUMATERA, INDONESIA

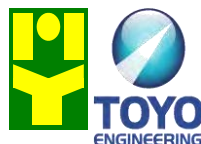
Plant Name : 2000 MTPD Ammonia Plant
2750 MTPD Urea Plant

Vendor Name : PT. RAHMI IDA NUSANTARA

File No.(Item) : VD-AXNP321-1/1

Service Name : CONDUIT & FITTINGS

February. 2015





MANUFACTURING DATA RECORD (MDR)

JOB NO : 13102

Contractor : PT. Inti Karya Persada Teknik (IKPT)
Client : PT. Chandra Asri Petrochemical Tbk. (CAP)
Purchase Order No. : A-NPT-O&M-ELE-P0-005-0
Purchase Order Description : CABLE TRAY & ACCEOSRIES
Requisition Number : A-NPT-O&M-ELE-RFQ-005-0 REV-0
Equipment Tag No. : N / A

PT. RAHMI IDA NUSANTARA



TEST REPORT

Your Ref : Letter dated 08 Oct 98 Date : 29 Feb 99
Our Ref : G11629/EMK Page : 1/4
(Please quote our ref. no. in reply)
DID : 8701839 Fax : 7793903



(PSB is established as a statutory and testing authority by an Act of Parliament, the PSB Act No 1 of 1996)

NOTE: This Report is issued subject to the "Terms and Conditions Governing Technical Services" set out in the "Request for Technical Services" form. The terms and conditions governing the issue of this report are set out overleaf. This Report is not a Certificate of Quality. It only applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results shall not be used to indicate or imply that they are applicable to other similar terms. In addition, such results must not be used to indicate or imply that PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that PSB in any way "guarantees" the later performance of the product/equipment.

SUBJECT:

Testing of $\varnothing 1$ "ELPRO" brand hot dipped galvanised conduit tubes submitted by PT Dhemar Nusantara on 18 Feb 99.

TESTED FOR:


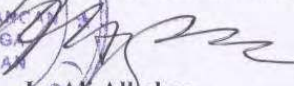

Jl. Mangga 24 Kepa Duri Blok E/136
Tanjung Duren
Jakarta Barat 11510

Attn : Mr Redi Nusantara

METHOD OF TEST:



BS 4568 : Pt. 1 : 1970 Specification for steel conduits and fittings with metric threads of ISO Form for Electrical Installation. Part 1 - Steel conduit, bend and coupler.

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	PLN LITBANG	LAPORAN PENGUJIAN TEST REPORT	No. 110.BLUR.292A.2006
			Tgl. Date 09 - 03 - 2006
Peminta Jasa Client PT. DHEMAR NUSANTARA Plaza Niaga I Blok D/5, Komplek Bukit Sentul Estate, Bogor 16810			
Nomor KPJ/Order No. 292A-LUR/2005		Penulis Author Asisten Manajer Laboratorium Peralatan Transmisi dan Distribusi	
Jumlah laporan Number of copies 2	Jumlah halaman Number of pages 11		
Keterangan Ref. Surat permintaan Nomor : - Tanggal : 31 Agustus 2005.		Dikeluarkan oleh, Issued by  a.n GENERAL MANAGER PH. MANAJER BIDANG PENYALURAN DAN PENGEMBANGAN KETENAGALISTRIKAN  Ir. Sah Albahar	
Judul Title PENGUJIAN PIPA BAJA KAKU (RIGID STEEL CONDUIT) DAN SAMBUNGAN (COUPLING) UKURAN : 4 INCH , MEREK : ELPRO PEMINTA JASA : PT. DHEMAR NUSANTARA			
Ringkasan Summary <p>Telah dilakukan pengujian Pipa Baja Kaku (Rigid Steel Conduit) dan sambungan (coupling), ukuran : 4 inch, merek : Elpro pada tanggal 14 s/d 27 Februari 2006.</p> <p>Referensi pengujian ANSI C 80.1 - 1994</p> <p>Dari hasil pengujian yang telah dilakukan dapat disimpulkan bahwa pipa baja kaku dan sambungan tersebut di atas memenuhi persyaratan Standar.</p>			



Keluhan atas isi dokumen hanya dilayani bila disampaikan paling lambat 3 (tiga) bulan sejak diterbitkan. Dokumen ini berlaku 5 (lima) tahun sejak diterbitkan, sepanjang standar/spesifikasi yang bersangkutan masih berlaku. Dokumen ini tidak boleh digandakan tanpa ada persetujuan tertulis dari PT PLN (Persero) Penelitian dan Pengembangan Ketenagalistrikan - Bidang Penyaluran, kecuali secara lengkap.

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	PLN LITBANG	LAPORAN PENGUJIAN TEST REPORT	No. 109.BLUR.292A.2006
			Tgl. Date 09 - 03 - 2006
Pemintha Jasa Client <p style="text-align: center;">PT. DHEMAR NUSANTARA Plaza Niaga I Blok D/5, Komplek Bukit Sentul Estate, Bogor 16810</p>			
Nomor KPI/Order No. 292A-LUR/2005		Penulis Author Asisten Manajer Laboratorium Peralatan Transmisi dan Distribusi	
Jumlah laporan Number of copies 2	Jumlah halaman Number of pages 11		
Keterangan Reff. <p>Surat permintaan Nomor : - Tanggal : 31 Agustus 2005.</p>		Dikeluarkan oleh Issued by <p style="text-align: center;">  a.n GENERAL MANAGER PH. MANAJER BIDANG PENYALURAN DAN PENGEMBANGAN KETENAGALISTRIKAN Ir. Ali Albahar </p>	
Judul Title <p style="text-align: center;">PENGUJIAN PIPA BAJA KAKU (RIGID STEEL CONDUIT) DAN SAMBUNGAN (COUPLING) UKURAN : 2 INCH , MEREK : ELPRO PEMINTA JASA : PT. DHEMAR NUSANTARA</p>			
Ringkasan Summary <p>Telah dilakukan pengujian Pipa Baja Kaku (Rigid Steel Conduit) dan sambungan (coupling), ukuran : 2 inch, merek : Elpro pada tanggal 14 s/d 27 Februari 2006.</p> <p>Referensi pengujian ANSI C 80.1 - 1994.</p> <p>Dari hasil pengujian yang telah dilakukan dapat disimpulkan bahwa pipa baja kaku dan sambungan tersebut di atas memenuhi persyaratan Standar.</p>			

Keluhan atas isi dokumen hanya dilayani bila disampaikan paling lambat 3 (tiga) bulan sejak diterbitkan. Dokumen ini berlaku 5 (lima) tahun sejak diterbitkan, sepanjang standar/spesifikasi yang bersangkutan masih berlaku. Dokumen ini tidak boleh digandakan tanpa ada persetujuan tertulis dari PT PLN (Persero) Penelitian dan Pengembangan Ketenagalistrikan - Bidang Penyaluran, kecuali secara lengkap.

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	PLN LITBANG	LAPORAN PENGUJIAN TEST REPORT	No. 108.BLUR.292A.2006
			Tgl. Date 09 - 03 - 2006
Peminta Jasa Client		PT. DHEMAR NUSANTARA Plaza Niaga I Blok D/5, Komplek Bukit Sentul Estate, Bogor 16810	
Nomor KPI/Order No. 292A-LUR/2005		Penulis Author Asisten Manajer Laboratorium Peralatan Transmisi dan Distribusi	
Jumlah laporan Number of copies 2	Jumlah halaman Number of pages 11		
Keterangan Reff. Surat permintaan Nomor : - Tanggal : 31 Agustus 2005.		Dikeluarkan oleh Issued by  a.n GENERAL MANAGER PH. MANAJER BIDANG PENYALURAN Ir. Ali Albahar	
Judul Title		PENGUJIAN PIPA BAJA KAKU (RIGID STEEL CONDUIT) DAN SAMBUNGAN (COUPLING) UKURAN : 1 INCH , MEREK : ELPRO PEMINTA JASA : PT. DHEMAR NUSANTARA	
Ringkasan Summary		<p>Telah dilakukan pengujian Pipa Baja Kaku (Rigid Steel Conduit) dan sambungan (coupling), ukuran : 1 inch, merek : Elpro pada tanggal 14 s/d 27 Februari 2006.</p> <p>Referensi pengujian ANSI C 80.1 - 1994.</p> <p>Dari hasil pengujian yang telah dilakukan dapat disimpulkan bahwa pipa baja kaku dan sambungan tersebut di atas memenuhi persyaratan Standar.</p>	

Keluhan atas isi dokumen hanya dilayani bila disampaikan paling lambat 3 (tiga) bulan sejak diterbitkan. Dokumen ini berlaku 5 (lima) tahun sejak diterbitkan, sepanjang standar/spesifikasi yang bersangkutan masih berlaku. Dokumen ini tidak boleh digandakan tanpa ada persetujuan tertulis dari PT PLN (Persero) Penelitian dan Pengembangan Ketenagalistrikan - Bidang Penyaluran, kecuali secara lengkap.

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<p style="text-align: center;">ETIKET MEREK</p> <div style="text-align: center;"> </div>	<p style="text-align: center;">Uraian Warna = HITAM DASAR PUTIH =</p>
<p>Jenis Barang/Jasa :</p> <p>=== Logam - logam biasa dan campurannya, bahan bangunan dari logam, besi-besi siku, siku untuk salon dan rak, kabel dan kawat dari logam biasa bukan untuk listrik, kawat duri, segala macam kunci, gembok, gerendel, engsel, selot pintu, pegangan pintu, pengganjal pintu, kusen pintu dari logam, tarikan laci, seng, kawat baja dengan tembaga, kawat las, kawat kasa, rantai, paku, mur, baut, pipa dan tabung dari logam, pipa besi, almunium, sekrup jangkar - jangkar, genta, tabung gas, kerai dari logam, gantungan kunci dari logam, kertas timah, terali besi, timah, baja, plastik, almunium, stainless steel dan komponen lainnya, rangka logam penyangga untuk manajemen kabel, rangka logam pipa saluran dibawah lantai, rangka logam pipa saluran menuju bawah lantai, rangka logam distribusi listrik bawah lantai, rangka logam pipa saluran selular, rangka logam pipa saluran bawah lantai, rangka logam pemasangan pipa listrik dibawah lantai, sistem busway termasuk: sistim saluran pipa fa, sistem saluran pipa pabrik, sistem mengisolasi trem listrik, rangka logam klem pada rangka bangunan, rangka logam pemasangan bingkai logam, sistem unistrut termasuk: sistem dan produk asosiasi, sistem jalan masuk</p>	<p>Arti bahasa/huruf/angka asing dalam etiket merek :</p> <p>ELPRO = SUATU PENAMAAN</p>



**KUTIPAN UNDANG-UNDANG NOMOR 19 TAHUN 1992 TENTANG MEREK
SEBAGAIMANA TELAH DIUBAH DENGAN UNDANG-UNDANG NOMOR 14 TAHUN 1997**

Pasal 7

Merek terdaftar mendapat perlindungan hukum untuk jangka waktu sepuluh tahun dan berlaku surut sejak tanggal penerimaan permintaan pendaftaran merek yang bersangkutan:

Pasal 36

- (1) Atas permintaan pemilik merek, jangka waktu perlindungan merek terdaftar dapat diperpanjang setiap kali untuk jangka waktu yang sama.
- (2) Permintaan perpanjangan jangka waktu perlindungan merek terdaftar sebagaimana dimaksud dalam ayat (1) diajukan secara tertulis oleh pemilik atau kuasanya dalam jangka waktu tidak lebih dari dua belas bulan dan sekurang-kurangnya 6 bulan sebelum berakhirnya jangka waktu perlindungan bagi merek terdaftar tersebut.


Pasal 37

Permintaan perpanjangan jangka waktu perlindungan merek terdaftar disetujui apabila :

- a. merek yang bersangkutan masih digunakan pada barang atau jasa sebagaimana disebut dalam Sertifikat Merek tersebut; dan
- b. barang atau jasa sebagaimana dimaksud dalam huruf a masih diproduksi dan diperdagangkan.

(Lanjutan Barang/Jasa) :

sistem jalan masuk pada lantai bangunan, sistem saluran skirting, rangka logam penyangga kabel pada bangunan termasuk: balok atau tiang klem rangka bangunan, kabel tray yaitu sirkuit instalasi kabel dari logam, raceway yaitu instalasi kabel/pipa dari logam, looper band yaitu klem kabel yang bisa distel terbuat dari logam dan line rock yaitu kabel penahan pipa dari logam, rangka sistem kabel gantung pada bangunan, pipa - pipa sebagai pelindung untuk kabel listrik (baja dan plastik), proses pengecatan pada peralatan listrik (baja dan plastik), bahan untuk pemasangan instalasi listrik, pipa - pipa untuk pemasangan instalasi listrik (baja, plastik, aluminium stainless steel dan komponen lainnya), sistem konduktor sirkuler yaitu sistem pengantar sirkulasi udara dari logam, sistem kabel trunking, raceway yaitu sistem instalasi pembagi arah kabel/pipa dari logam sistem - sistem untuk pipa aluminium, fitting dan copper tube yaitu kombinasi dan pipa - pipa dari logam dan tembaga, valves dan aktuator yaitu katup - katup dari logam dan penggerak - penggerak katup dari logam, pengepakan dan pembungkusan pipa listrik, pipa baja sebagai pelindung kabel listrik dan bermacam - macam fitting yaitu macam-macam kombinasi dari logam, flanges yaitu pinggiran-pinggiran roda dari logam, plates yaitu lempengan - lempengan dari logam, sanitari fitting dan valves yaitu katup-katup dan kombinasi-kombinasi untuk penyaringan dari logam, piluck yaitu penjepit pipa/ kabel berbentuk melengkung terbuat dari logam, negrock dan negrock (logam stud) yaitu penjepit tiang / pipa / kabel berbentuk kotak / persegi panjang terbuat dari logam, band unci yaitu klep kabel / pipa berbentuk bulat dari logam, faslide yaitu kabel penahan pipa dari logam, rangka logam pemasangan kabel untuk tangga bangunan, rangka logam kabel trunking pada dinding bangunan, SP lock yaitu klep kabel/pipa berbentuk kotak / persegi panjang terbuat dari logam, sylock yaitu klep kabel / pipa berbentuk melengkung terbuat dari logam, cap omekashi yaitu penutup pipa dari logam, sistem penyangga, pipa conduit baja yang tahan karat, pipa conduit baja berlapis polyethilene, rangka logam instalasi listrik didalam dan diluar bangunan, rangka logam pada lantai bangunan, pipa logam penyangga kabel, pipa conduit stainless pelindung kabel listrik, kabel spacer yaitu ruang/tempat kabel terbuat dari logam, cable ladder installation systems yaitu sistem-sistem saluran kabel dari logam, cable duct systems yaitu sistem-sistem saluran kabel dari logam, wall trunking systems yaitu sistem - sistem untuk pembagi arah kabel / pipa yang ditempelkan didinding terbuat dari logam, standar return flange cable tray yaitu standar tempat kabel yang terbuat dari logam, cable support clamp yaitu klem untuk kabel yang terbuat dari logam, angular fitting yaitu kombinasi - kombinasi yang terbuat dari logam, pipe clamps yaitu klep untuk pipa terbuat dari logam, fastening systems yaitu sistem - sistem pengikat terbuat dari logam, beam clips horizontal yaitu penjepit tiang dalam posisi horizontal terbuat dari logam, beam clips universal yaitu penjepit tiang dalam posisi umum (bisa distel - stel) terbuat dari logam, beam clips vertikal yaitu penjepit tiang dalam posisi vertikal terbuat dari logam, offset brackets yaitu penahan pipa terbuat dari logam. ===

<p style="text-align: center;">ETIKET MEREK</p> 	<p style="text-align: center;">Uraian Warna</p> <p style="text-align: center;">= HITAM - PUTIH =</p>
<p>Jenis Barang/Jasa :</p> <p>=== AC (air conditioning), lemari es / kulkas, lemari pendingin, freezer (lemari pembeku), kipas angin, hair dryer (alat pengering rambut), oven, baking pan, microwave (pemanggang), coffee maker (mesin pembuat kopi), panggangan dengan bahan bakar arang, rice cooker, water heater (alat pemanas air), jamban/kloset / kakus, wastafel (tempat cuci tangan), mesin pengering tangan, shower mandi, bak mandi, bak cuci piring, kompor gas / listrik, kompor minyak tanah, lentera, lampu-lampu, kaos lampu, kap lampu, lampu-lampu jalan, semprong lampu, lampu minyak, kran air, instalasi penerangan, pemanasan, penghasilan uap, pemasakan, pendinginan, pengeringan, penyegaran udara dan pembagian air. ===</p>	<p>Arti bahasa/huruf/angka asing dalam etiket merek :</p> <p>ELPRO = SUATU PENAMAAN.</p>

**KUTIPAN UNDANG-UNDANG NOMOR 19 TAHUN 1992 TENTANG MEREK
SEBAGAIMANA TELAH DIUBAH DENGAN UNDANG-UNDANG NOMOR 14 TAHUN 1997**

Pasal 7

Merek terdaftar mendapat perlindungan hukum untuk jangka waktu sepuluh tahun dan berlaku surut sejak tanggal penerimaan permintaan pendaftaran merek yang bersangkutan:

Pasal 36

- (1) Atas permintaan pemilik merek, jangka waktu perlindungan merek terdaftar dapat diperpanjang setiap kali untuk jangka waktu yang sama.
- (2) Permintaan perpanjangan jangka waktu perlindungan merek terdaftar sebagaimana dimaksud dalam ayat (1) diajukan secara tertulis oleh pemilik atau kuasanya dalam jangka waktu tidak lebih dari dua belas bulan dan sekurang-kurangnya 6 bulan sebelum berakhirnya jangka waktu perlindungan bagi merek terdaftar tersebut.

Pasal 37

Permintaan perpanjangan jangka waktu perlindungan merek terdaftar disetujui apabila :

- a. merek yang bersangkutan masih digunakan pada barang atau jasa sebagaimana disebut dalam Sertifikat Merek tersebut; dan
- b. barang atau jasa sebagaimana dimaksud dalam huruf a masih diproduksi dan diperdagangkan.

ETIKET MEREK



Uraian Warna

= HITAM DASAR PUTIH.=

Arti bahasa/huruf/angka asing dalam etiket merek :

ELPRO = SUATU PENAMAAN.

Jenis Barang/Jasa :

=== Antene tv/radio, antene parabola, kabel-kabel radio, radio panggil (pager), compo, mini compo, walkman, televisi, video, tape recorder/deck, mikrophone, karaoke, video game, cassette video/tape, laser disc, compact disc, loudspeaker, sound system, amplifier, telephon, mesin faksimil, mesin teleks, mesin fotocopy, hand phone, handie talkie, pesawat-pesawat otomatis yang bekerja dengan memasukan uang atau kepingan logam ke dalamnya, aparat dan instrument ilmu pengetahuan, -pelayaran, -geodesi, aparat dan instrumen listrik termasuk; stabilizer, -sekering, -stop kontak, -step up & step down untuk listrik, -fitting, -saklar, -trafo, -transformator, -adaptor, -booster (penguat frekuensi), -ballast, -steker, fotografi, sinematografi, komputer dan perlengkapannya, mesin hitung, kalkulator, kas register, mesin bicara, pesawat pemadam api, kamera, kaca pembesar, proyektor, slide, mikroskop, kacamata, teropong, topi helm, batu baterai, seterika listrik, alat-alat pengukur termasuk timbangan, kompas penunjuk arah, sinyal, alarm, bel, radar. ===

KUTIPAN UNDANG-UNDANG NOMOR 19 TAHUN 1992 TENTANG MEREK
SEBAGAIMANA TELAH DIUBAH DENGAN UNDANG-UNDANG NOMOR 14 TAHUN 1997

Pasal 7

Merek terdaftar mendapat perlindungan hukum untuk jangka waktu sepuluh tahun dan berlaku surut sejak tanggal penerimaan permintaan pendaftaran merek yang bersangkutan:


Pasal 36

- (1) Atas permintaan pemilik merek, jangka waktu perlindungan merek terdaftar dapat diperpanjang setiap kali untuk jangka waktu yang sama.
- (2) Permintaan perpanjangan jangka waktu perlindungan merek terdaftar sebagaimana dimaksud dalam ayat (1) diajukan secara tertulis oleh pemilik atau kuasanya dalam jangka waktu tidak lebih dari dua belas bulan dan sekurang-kurangnya 6 bulan sebelum berakhirnya jangka waktu perlindungan bagi merek terdaftar tersebut.

Pasal 37

Permintaan perpanjangan jangka waktu perlindungan merek terdaftar disetujui apabila :

- a. merek yang bersangkutan masih digunakan pada barang atau jasa sebagaimana disebut dalam Sertifikat Merek tersebut; dan
- b. barang atau jasa sebagaimana dimaksud dalam huruf a masih diproduksi dan diperdagangkan.

<p style="text-align: center;">ETIKET MEREK</p> 	<p style="text-align: center;">Uraian Warna = HITAM DASAR PUTIH =</p>
<p>Jenis Barang/Jasa :</p> <p>=== Karet, tali karet, karet sintetis, sumbat botol dari karet, gasket/packing, selang, getah - perca, spon busa, getah, asbes, mika dan barang - barang yang terbuat dari bahan ini, plastik plastik yang sudah berbentuk untuk digunakan dalam pembuatan barang, bahan - bahan untuk membungkus,merapatkan dan menyekat, pipa - pipa lentur bukan dari logam, pipa PVC plastik, lembaran plastik. ===</p>	<p>Arti bahasa/huruf/angka asing dalam etiket merek :</p> <p>ELPRO = SUATU PENAMAAN</p>

**KUTIPAN UNDANG-UNDANG NOMOR 19 TAHUN 1992 TENTANG MEREK
SEBAGAIMANA TELAH DIUBAH DENGAN UNDANG-UNDANG NOMOR 14 TAHUN 1997**

Pasal 7

Merek terdaftar mendapat perlindungan hukum untuk jangka waktu sepuluh tahun dan berlaku surut sejak tanggal penerimaan permintaan pendaftaran merek yang bersangkutan:

Pasal 36

- (1) Atas permintaan pemilik merek, jangka waktu perlindungan merek terdaftar dapat diperpanjang setiap kali untuk jangka waktu yang sama.
- (2) Permintaan perpanjangan jangka waktu perlindungan merek terdaftar sebagaimana dimaksud dalam ayat (1) diajukan secara tertulis oleh pemilik atau kuasanya dalam jangka waktu tidak lebih dari dua belas bulan dan sekurang-kurangnya 6 bulan sebelum berakhirnya jangka waktu perlindungan bagi merek terdaftar tersebut.

Pasal 37

Permintaan perpanjangan jangka waktu perlindungan merek terdaftar disetujui apabila :

- a. merek yang bersangkutan masih digunakan pada barang atau jasa sebagaimana disebut dalam Sertifikat Merek tersebut; dan
- b. barang atau jasa sebagaimana dimaksud dalam huruf a masih diproduksi dan diperdagangkan.

Agno.: D99-8004



**DEPARTEMEN KEHAKIMAN DAN HAK ASASI MANUSIA REPUBLIK INDONESIA
DIREKTORAT JENDERAL HAK KEKAYAAN INTELEKTUAL**

SERTIFIKAT MEREK

Berdasarkan Undang-Undang Nomor 19 Tahun 1992 Tentang Merek, sebagaimana telah diubah dengan Undang-Undang Nomor 14 Tahun 1997 telah terdaftar dalam Daftar Umum Merek sebagai berikut :

Nama dan alamat pemilik : Tang Kok Tjoen
Jl. Pekojan Skolan 23
Purwodinatan, Semarang.

Nama dan alamat kuasa : Drs. Achmad Fatchy, Cs
Pacific Patent Bapindo Plaza
Lt. 27 Tower II Jl. Jend. Sudirman
Kav. 54-55, Jakarta 12190

Tanggal pengajuan : 19 Mei 1999

Tanggal penerimaan permintaan : 12 Oktober 1999

Nama Negara dan tanggal permintaan pendaftaran merek yang pertama kali (apabila permintaan pendaftaran merek diajukan dengan menggunakan hak prioritas).

Etiket Merek : (lihat sebaliknya).

Uraian Warna : (lihat sebaliknya).

Arti bahasa/huruf/angka asing dalam etiket merek : (lihat sebaliknya).

Nomor Pendaftaran : 465003

Tanggal Pendaftaran : 1 Februari 2001

Kelas Barang/Jasa : 6

Jenis Barang/Jasa : (lihat sebaliknya).

Jangka waktu berlakunya pendaftaran : 10 Tahun, terhitung sejak tanggal 12-10-1999

Tangerang, 1 Februari 2001



**DIREKTUR JENDERAL
HAK KEKAYAAN INTELEKTUAL**

ACHMAD ZEN UMAR PURBA, SH, LLM

NIP. 130517313

A178072

Agno.: D99-8005



DEPARTEMEN KEHAKIMAN DAN HAK ASASI MANUSIA REPUBLIK INDONESIA
DIREKTORAT JENDERAL HAK KEKAYAAN INTELEKTUAL

SERTIFIKAT MEREK

Berdasarkan Undang-Undang Nomor 19 Tahun 1992 Tentang Merek, sebagaimana telah diubah dengan Undang-Undang Nomor 14 Tahun 1997 telah terdaftar dalam Daftar Umum Merek sebagai berikut :

- Nama dan alamat pemilik : **Tang Kok Tjoen**
Jl. Pekojan Skolan 23
Purwodinatan - Semarang.
- Nama dan alamat kuasa : **Drs. Achmad Pachy, Cs.**
Pacific Patent Bapindo Plaza
Lt. 27 Tower II Jl Jend. Sudirman
Kav. 54-55, Jakarta 12190
- Tanggal pengajuan : **19 Mei 1999**
- Tanggal penerimaan permintaan : **12 Oktober 1999**
- Nama Negara dan tanggal permintaan pendaftaran merek yang pertama kali (apabila permintaan pendaftaran merek diajukan dengan menggunakan hak prioritas)
- Etiket Merek : (lihat sebaliknya).
- Uraian Warna : (lihat sebaliknya).
- Arti bahasa/huruf/angka asing dalam etiket merek : (lihat sebaliknya).
- Nomor Pendaftaran : **465005**
- Tanggal Pendaftaran : **1 Februari 2001**
- Kelas Barang/Jasa : **17**
- Jenis Barang/Jasa : (lihat sebaliknya).
- Jangka waktu berlakunya pendaftaran : **10 Tahun, terhitung sejak tanggal 12-10-1999**

Tangerang, 1 Februari 2001



DIREKTUR JENDERAL
HAK KEKAYAAN INTELEKTUAL

ACHMAD ZEN UMAR PURBA, SH, LLM

NIP. 130517313

A172963



Agno.: D99-8006



DEPARTEMEN KEHAKIMAN DAN HAK ASASI MANUSIA REPUBLIK INDONESIA
DIREKTORAT JENDERAL HAK KEKAYAAN INTELEKTUAL
SERTIFIKAT MEREK

Berdasarkan Undang-Undang Nomor 19 Tahun 1992 Tentang Merek, sebagaimana telah diubah dengan Undang-Undang Nomor 14 Tahun 1997 telah terdaftar dalam Daftar Umum Merek sebagai berikut :

Nama dan alamat pemilik

Tang Kok Tjoen
Jl. Pekojan Skolan 23
Purwodinatan - Semarang.

Nama dan alamat kuasa

Drs. Achmad Fatchy, Cs.
Pacific Patent Bapindo Plaza
Lt. 27 Tower II Jl. Jend. Sudirman
Kav. 54-55, Jakarta 12190

Tanggal pengajuan

: 19 Mei 1999

Tanggal penerimaan permintaan

: 12 Oktober 1999

Nama Negara dan tanggal permintaan pendaftaran merek yang pertama kali (apabila permintaan pendaftaran merek diajukan dengan menggunakan hak prioritas).

: (lihat sebaliknya).

Etiket Merek

: (lihat sebaliknya).

Uraian Warna

: (lihat sebaliknya).

Arti bahasa/huruf/angka asing

: (lihat sebaliknya).

dalam etiket merek

: (lihat sebaliknya).

Nomor Pendaftaran

: 465004

Tanggal Pendaftaran

: 1 Februari 2001

Kelas Barang/Jasa

: 11

Jenis Barang/Jasa

: (lihat sebaliknya).

Jangka waktu berlakunya pendaftaran

: 10 Tahun, terhitung sejak tanggal 12-10-1999

Tangerang, 1 Februari 2001

DIREKTUR JENDERAL
HAK KEKAYAAN INTELEKTUAL

ACHMAD ZEN UMAR PURBA, SH, LL.M
NIP. 130517313

1172967



Agno.: D99-8007



DEPARTEMEN KEHAKIMAN DAN HAK ASASI MANUSIA REPUBLIK INDONESIA
DIREKTORAT JENDERAL HAK KEKAYAAN INTELEKTUAL

SERTIFIKAT MEREK

Berdasarkan Undang-Undang Nomor 19 Tahun 1992 Tentang Merek, sebagaimana telah diubah dengan Undang-Undang Nomor 14 Tahun 1997 telah terdaftar dalam Daftar Umum Merek sebagai berikut :

Nama dan alamat pemilik : **Tang Kok Tjoen,**
Jl. Pekojan Skolan 23
Purwodinatan - Semarang

Nama dan alamat kuasa : **Drs. Achmad Fatchy, Cs.**
Pacific Patent, Bapindo Plaza Tower II
Lt.27, Jl. Jend. Sudirman Kav.54-55
Jakarta 12190

Tanggal pengajuan : **19 Mei 1999**

Tanggal penerimaan permintaan : **12 Oktober 1999**

Nama Negara dan tanggal permintaan pendaftaran merek yang pertama kali (apabila permintaan pendaftaran merek diajukan dengan menggunakan hak prioritas) :

Etiket Merek : **(lihat sebaliknya).**

Uraian Warna : **(lihat sebaliknya).**

Arti bahasa/huruf/angka asing dalam etiket merek : **(lihat sebaliknya).**

Nomor Pendaftaran : **465307**

Tanggal Pendaftaran : **2 Februari 2001**

Kelas Barang/Jasa : **09**

Jenis Barang/Jasa : **(lihat sebaliknya).**

Jangka waktu berlakunya pendaftaran : **10 Tahun, terhitung sejak tanggal 12-10-1999**

Tangerang, 2 Februari 2001

DIREKTUR JENDERAL
HAK KEKAYAAN INTELEKTUAL

ACHMAD ZEN UMAR PURBA, SH, LLM

NIP. 130517313

REPUBLIK INDONESIA
DEPARTEMEN ENERGI DAN SUMBER DAYA MINERAL
DIREKTORAT JENDERAL MINYAK DAN GAS BUMI

SURAT KETERANGAN TERDAFTAR

No. 003 /SKT/Daf/DMT/2006

Memperhatikan surat permohonan pendaftaran perusahaan jasa penunjang nasional No. 001/DN/Ekst/XI/2005 tanggal 29 Nopember 2005 dan berdasarkan :

1. Surat Direktur Jenderal Minyak dan Gas Bumi No. 111/DJ/MIGAS/1974 tanggal 13 April 1974 jo. No. 7523/29.06/DJM.B/2003 tanggal 31 Desember 2003 perihal Surat Keterangan Terdaftar (SKT)
2. Laporan hasil verifikasi yang dilaksanakan oleh Sub Direktorat Usaha Penunjang Migas pada tanggal 22 Pebruari 2006

DIREKTUR JENDERAL MINYAK DAN GAS BUMI

dengan ini memberikan Surat Keterangan Terdaftar kepada :

Nama Perusahaan : **PT. DHEMAR NUSANTARA**
Alamat : Kawasan Industri Terboyo Semarang
Jl. Terboyo Industri Barat Dalam II M. 111
Semarang 50118

sebagai perusahaan jasa penunjang pada kegiatan usaha minyak dan gas bumi dengan bidang usaha :

C : Jasa Produksi Bahan dan Barang Jadi
(Steel Conduit System dan Cable Support System)


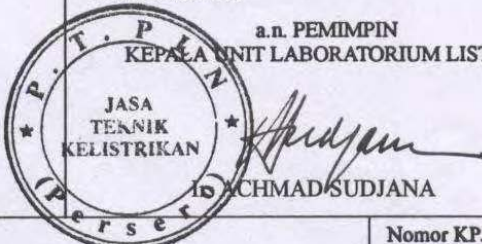
Dengan ketentuan sebagai berikut :


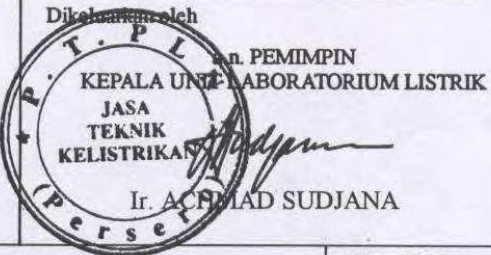
1. Dalam melaksanakan kegiatan usahanya, perusahaan wajib mengikuti ketentuan peraturan perundang-undangan yang berlaku.
2. Semaksimal mungkin menggunakan barang dan jasa produksi dalam negeri
3. Menyampaikan laporan kegiatan usaha perusahaan setiap 6 (enam) bulan sekali kepada Direktorat Teknik dan Lingkungan Migas
4. Direktorat Teknik dan Lingkungan Migas akan melakukan pengawasan atas pelaksanaan kegiatan usaha perusahaan
5. Surat Keterangan Terdaftar ini berlaku selama 2 (dua) tahun sejak tanggal dikeluarkan dan dapat diperpanjang lagi.

Dikeluarkan di Jakarta
Pada tanggal 23 Pebruari 2006



a.n. **Direktur Jenderal Minyak Dan Gas Bumi**
Direktur Teknik dan Lingkungan



Ir. Indrayana Chaidir
Ir. Indrayana Chaidir, SE, MSi
NIP. 100007065

	PT PLN (PERSERO) JTK	LAPORAN PENGUJIAN	No. 110.ULL.007A.98
			Tgl. 21 - 04 - 1998
Atas permintaan <p style="text-align: center;">PT. DHEMAR NUSANTARA Jl. Mangga 24 Kepaduri E/136 JAKARTA 11510</p>			
Jenis Pengujian Jenis	Sifat Terbatas	Penulis Kepala Laboratorium Peralatan Listrik	
Jumlah laporan 2	Jumlah halaman 11		
Keterangan Surat permintaan Nomor : 025/LMK/JISI/98. Tanggal : 12 Januari 1998.		Dikeluarkan oleh a.n. PEMIMPIN KEPALA UNIT LABORATORIUM LISTRIK  ISACHMAD SUDJANA	
Judul <p style="text-align: center;">PENGUJIAN JENIS PIPA BAJA KAKU (RIGID STEEL CONDUIT) TIPE : G.16 MEREK : ELPRO</p>		Nomor KPJ 007A/98	
Ringkasan <p>Telah dilakukan pengujian jenis Pipa Baja Kaku (Rigid Steel Conduit) tipe G.16 merek Elpro pada tanggal 18 Maret s/d 9 April 1998.</p> <p>Cara pengujian dan penilaian berdasarkan JIS C. 8305 - 1992.</p> <p>Kesimpulan :</p> <ol style="list-style-type: none"> 1. Untuk dapat dinyatakan lulus pengujian jenis , masih diperlukan melengkapi penandaan pada pipa. 2. Hasil dari pengujian yang telah dilakukan , karakteristik Pipa Baja Kaku (Rigid Steel Conduit) tersebut di atas memenuhi persyaratan standar. 			

	PT PLN (PERSERO) JTK	LAPORAN PENGUJIAN	No. 199.ULL.083A.98 Tgl. 29-7-1998
	Atas permintaan PT. DHEMAR NUSANTARA Jl. Mangga 24 Kepaduri E/136 JAKARTA 11510		
Jenis Pengujian Jenis	Sifat Terbatas	Penulis Kepala Laboratorium Peralatan Listrik	
Jumlah laporan 2	Jumlah halaman 11		
Keterangan Surat permintaan Nomor : 567/LMK/JIS/VI/98. Tanggal : 18 Juni 1998..		Dikeluarkan oleh  n. PEMIMPIN KEPALA UNIT LABORATORIUM LISTRIK JASA TEKNIK KELISTRIKAN Ir. ACHMAD SUDJANA	
Judul PENGUJIAN JENIS PIPA BAJA KAKU (RIGID STEEL CONDUIT) TIPE : E.39 MEREK : ELPRO		Nomor KPJ 083A/98	
Ringkasan <p>Telah dilakukan pengujian jenis Pipa Baja Kaku (Rigid Steel Conduit) tipe E.39 merek Elpro pada tanggal 16 s/d 23 Juli 1998.</p> <p>Cara pengujian dan penilaian berdasarkan JIS C. 8305 - 1992.</p> <p>Hasil dari pengujian yang telah dilakukan , dapat disimpulkan bahwa karakteristik Pipa Baja Kaku (Rigid Steel Conduit) tersebut memenuhi persyaratan standar.</p>			

	PT PLN (PERSERO) JTK	LAPORAN PENGUJIAN	No. 009.ULL.167A.99
			Tgl. 13 - 01 - 1999
Atas permintaan PT. DHEMAR NUSANTARA Jl. Mangga 24 Kepaduri E/136 JAKARTA 11510			
Jenis Pengujian Jenis	Sifat Terbatas	Penulis Kepala Laboratorium Peralatan Listrik	
Jumlah laporan 2	Jumlah halaman 9		
Keterangan Surat permintaan Nomor : 948 - DN - LMK - XI - 98. Tanggal : 4 Nopember 1998.		Dikeluarkan oleh a.n. PEMIMPIN KEPALA UNIT LABORATORIUM LISTRIK KHANMAD SUDJANA	
Judul PENGUJIAN JENIS PIPA BAJA KAKU (RIGID STEEL CONDUIT) TIPE : E.31 MEREK : ELPRO			Nomor KPJ 167A/98
Ringkasan Telah dilakukan pengujian jenis Pipa Baja Kaku (Rigid Steel Conduit) tipe E.31 merek Elpro pada tanggal 24 Desember 1998 s/d 6 Januari 1999. Cara pengujian dan penilaian berdasarkan JIS C. 8305 - 1992. Hasil dari pengujian yang telah dilakukan , dapat disimpulkan bahwa Pipa Baja Kaku (Rigid Steel Conduit) tersebut di atas memenuhi persyaratan standar.			

	PT PLN (PERSERO) JTK	LAPORAN PENGUJIAN	No. 200.ULL.083A.98
			Tgl. 29-7-1998
Atas permintaan PT. DHEMAR NUSANTARA Jl. Mangga 24 Kepaduri E/136 JAKARTA 11510			
Jenis Pengujian Jenis	Sifat Terbatas	Penulis Kepala Laboratorium Peralatan Listrik	
Jumlah laporan 2	Jumlah halaman 11		
Keterangan Surat permintaan Nomor : 567/LMK/JIS/VI/98 Tanggal : 18 Juni 1998..			
Ditandatangani oleh a.n. PEMIMPIN KEPALA UNIT LABORATORIUM LISTRIK JASA TEKNIK KELISTRIKAN Ir. CHMAD SUDJANA			
Judul		Nomor KPJ	
PENGUJIAN JENIS PIPA BAJA KAKU (RIGID STEEL CONDUIT) TIPE : E.25 MEREK : ELPRO		083A/98	
Ringkasan <p>Telah dilakukan pengujian jenis Pipa Baja Kaku (Rigid Steel Conduit) tipe E.25 merek Elpro pada tanggal 16 s/d 23 Juli 1998.</p> <p>Cara pengujian dan penilaian berdasarkan JIS C. 8305 - 1992.</p> <p>Hasil dari pengujian yang telah dilakukan , dapat disimpulkan bahwa karakteristik Pipa Baja Kaku (Rigid Steel Conduit) tersebut memenuhi persyaratan standar.</p>			

	PT. PLN (PERSERO) JASA TEKNIK KELISTRIKAN	LAPORAN TEKNIK	No. 008.ULL.184A.98
			Tgl. 07-01-1998
Atas permintaan <p style="text-align: center;">PT. DHEMAR NUSANTARA Jl. Mangga 24 Kepaduri E/136 Jakarta 11510</p>			
Jenis Pengujian	Sifat Terbatas	Pelaksana utama /Penulis Kepala Laboratorium Peralatan Listrik	
Jumlah laporan 2	Jumlah halaman 9		
Keterangan Surat permintaan Nomor : 83/Uji/PLN/19/97. Tanggal : 6 Oktober 1997.		Penanggung Jawab/Dikeluarkan oleh a.n PEMIMPIN KEPALA UNIT LABORATORIUM LISTRIK  MCHMAD SUDJANA	
Judul <p style="text-align: center;">PENGUJIAN JENIS PIPA BAJA KAKU (RIGID STEEL CONDUIT) TIPE : E.19 MEREK : ELPRO</p>		Nomor KPJ <p style="text-align: center;">184A/97.</p>	
Ringkasan <p>Telah dilakukan pengujian jenis Pipa Baja Kaku (Rigid Steel Conduit) tipe E.19 merek Elpro pada tanggal 10 Nopember s/d 4 Desember 1997.</p> <p>Cara pengujian dan penilaian berdasarkan JIS C. 8305 -1992.</p> <p>Hasil dari pengujian yang telah dilakukan , karakteristik Pipa Baja Kaku (Rigid Steel Conduit) tersebut di atas memenuhi persyaratan standar.</p>			

JAS-ANZ



QAS is Accredited by the
Joint Accreditation System of
Australia and New Zealand,
Acc No. S1250992AS



Quality
Endorsed
Company



CERTIFICATE OF REGISTRATION

ELPRO

Trading name of
PT Dhemar Nusantara

Jl. Merak No. 2 Tawang SEMARANG 50174 INDONESIA
Jl. Mangga 24 Kepaduri Blok E/136 Tanjung Duren JAKARTA 11510 INDONESIA

complies with the requirements of

AS/NZS ISO 9002:1994

Quality systems-Model for quality assurance in production installation and servicing

for the following capability

The registration covers the Quality Management System for the manufacturing and trading of steel electrical conduit system and cable support for industry, industrial buildings, multi stories buildings, offsite facilities and special construction.

Registered by:

Quality Assurance Services Pty Limited (QAS) ACN 050 611 642 1 The Crescent Homebush NSW 2140 Australia
Subject to the QAS Terms and Conditions for Certification. While all due care and skill was exercised in carrying out this assessment, QAS accepts responsibility only for proven negligence. This certificate remains the property of QAS and must be returned to QAS upon its request.

Certificate No.: QEC12498
Issue Date: 7 January 2000

Certified Date: 7 January 2000
Expiry Date: 7 January 2003

Keith Ketheeswaran
Managing Director
For and on behalf of
The Board of Quality Assurance Services Pty Limited

Authorised Local Signatory, QAS

Page 1 of 1



QUALITY ASSURANCE SERVICES

MKB18.01 • CDAN96/180



PLN LITBANG

**LAPORAN PENGUJIAN
TEST REPORT**

No. 038.BLUR.292A.2006

Tgl.
Date 19-01-2006

Peminta Jasa
Client

PT. DHEMAR NUSANTARA
Ruko Plaza Niaga I Blok D/5, Bukit Sentul, Bogor 16810

Nomor KPI/Order No. 292A-LUR/2005

Penulis
Author

Asisten Manajer Laboratorium
Peralatan Transmisi & Distribusi

Jumlah laporan
Number of copies 2

Jumlah halaman
Number of pages 6

Keterangan
Reff.

Surat permintaan
Nomor : -
Tanggal : 31 Agustus 2005

Dikeluarkan oleh
Issued by



Judul
Title

**PENGUJIAN KARAKTERISTIK MEKANIK
PERFORATED CABLE TRAY
TIPE : STRAIGHT TRAY, UKURAN : (300 x 100 x 3000) mm
MEREK : ELPRO
PEMINTA JASA : PT. DHEMAR NUSANTARA**

Ringkasan
Summary


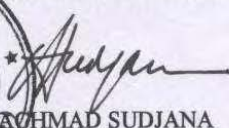
Telah dilakukan pengujian karakteristik mekanik terhadap *perforated cable tray* tipe *Straight Tray*, ukuran : (300 x 100 x 3000) mm, merek : ELPRO pada tanggal 17 Januari 2006..

Referensi pengujian : IEC 61537 (2001 - 09), Sub. Clause : 10

Hasil pengujian karakteristik *perforated cable tray* tersebut memenuhi persyaratan standar.

Keluhan atas isi dokumen hanya dilayani bila disampaikan paling lambat 3 (tiga) bulan sejak diterbitkan. Dokumen ini berlaku 5 (lima) tahun sejak diterbitkan, sepanjang standar/spesifikasi yang bersangkutan masih berlaku. Dokumen ini tidak boleh digandakan tanpa ada persetujuan tertulis dari PT PLN (Persero) Penelitian dan Pengembangan Ketenagalistrikan - Bidang Penyaluran, kecuali secara lengkap.

Complaint on this report could be handled only if it received within 3 months after issued. This report is good for 5 years as long as the related standard/specification is valid. This report shall not be reproduced except in full, without the written approval of PT PLN (Persero) Penelitian dan Pengembangan Ketenagalistrikan - Bidang Penyaluran.

	PT PLN (PERSERO) JTK	LAPORAN PENGUJIAN	No. 109.ULL.007A.98
			Tgl. 21 - 4 - 1998
Atas permintaan PT. DHEMAR NUSANTARA Jl. Mangga 24 Kepaduri E/136 JAKARTA 11510			
Jenis Pengujian Jenis	Sifat Terbatas	Penulis Kepala Laboratorium Peralatan Listrik	
Jumlah laporan 2	Jumlah halaman 11		
Keterangan Surat permintaan Nomor : 025/LMK/JISI/98. Tanggal : 12 Januari 1998.		Dikeluarkan oleh a.n. PEMIMPIN KEPALA UNIT LABORATORIUM LISTRIK  Ir. ACHMAD SUDJANA	
Judul PENGUJIAN JENIS PIPA BAJA KAKU (RIGID STEEL CONDUIT) TIPE : G.22 MEREK : ELPRO		Nomor KPJ 007A/98	
Ringkasan Telah dilakukan pengujian jenis Pipa Baja Kaku (Rigid Steel Conduit) tipe G.22 merek Elpro pada tanggal 18 Maret s/d 9 April 1998. Cara pengujian dan penilaian berdasarkan JIS C. 8305 - 1992. Kesimpulan : 1. Untuk dapat dinyatakan lulus pengujian jenis , masih diperlukan melengkapi penandaan pada pipa. 2. Hasil dari pengujian yang telah dilakukan , karakteristik Pipa Baja Kaku (Rigid Steel Conduit) tersebut di atas memenuhi persyaratan standar.			



PT. RAHMI IDA NUSANTARA

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STEEL CONDUIT PIPE & CABLE SUPPORT SYSTEM MANUFACTURER



PREQUALIFICATION DOCUMENT ISO 9001 : 2008 CERTIFIED

Section 6

Factory Testing Reports

Website : elprosteel.com

E-mail : sales.jkt@elprosteel.com

MARKETING SERVICE COMPANY

PT. RAHMI IDA NUSANTARA

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Semarang: Ph. (+62-24) 6590 555-6 Fax. (+62-24) 6890 565 Email: sales.smg@elprosteel.com

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www.elprosteel.com



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Steel Conduit Pipe & Cable Support System Manufacturer

FACTORY TEST

1. TYPE TEST

DESTRUCTION LOAD TEST

DEFLECTION TEST

MEASUREMENT of ELECTRICAL CONTINUITY OF CONNECTIONS

WELDING TEST

2. ROUTINE TEST

VISUAL INSPECTION

INCPECTION of GALVANISING

DEFLECTION CHECK

DIMENSION CHECK

MATERIAL CERTIFICATIONS

TEST REPORTS

WELDING PROCEDURE and PROCEDURE QUALIFICATIONS

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E-mail : sales.jkt@elprosteel.com

MARKETING SERVICE COMPANY

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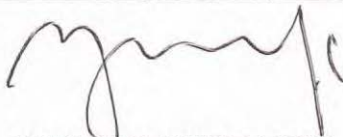




PT. RAHMI IDA NUSANTARA

STEEL CONDUIT AND CABLE SUPPORT SYSTEM MANUFACTURER

INSTRUKSI KERJA UJI BEBAN WORK INSTRUCTIONS FOR LOADING TEST

Page : 1 of 6
Doc. No : IK.1001 - 02
Effective date : 23 January 2013
Revision status : A1

Disusun Oleh <i>Prepared by</i>	Diperiksa Oleh <i>Checked by</i>	Disahkan Oleh <i>Approved by</i>
 QUALITY ASSURANCE	 MANAGEMENT REPRESENTATIVE	 DIREKTUR UTAMA

1. TUJUAN

OBJECTIVE

Memastikan kemampuan material dalam menahan beban sesuai dengan persyaratan pelanggan.
Ensure the ability of material to support the weight in accordance with customer requirements.

2. DEFINISI

DEFINITION

Uji beban adalah uji terhadap produk yang telah ditentukan untuk mengetahui kemampuan produk dalam menerima dan menahan beban sesuai standar yang telah disepakati.

Loading test is testing of the products that have been determined to find out the product's ability to receive and hold load according to standard as agreed.

3. STANDAR

STANDARD

NEMA VE.1 Metal Cable Tray Systems

4. BAHAN CABLE TRAY

CABLE TRAY SYSTEM MATERIALS

Aluminium, stainless steel, atau baja dengan finishing anti karat
Aluminium, stainless steel, or metal with a corrosion-resistant finished

5. SARANA YANG DIGUNAKAN

TOOLS USED

- 4.1. Jangka sorong
Calipers
- 4.2. Meteran, mistar ukur
Meter, measuring rules
- 4.3. Timbangan
Weight scale
- 4.4. Beban uji
Loading material
- 4.5. Pencatat defleksi
Deflection recording
- 4.6. Pena
Pen
- 4.7. Penyangga beban uji
Specimen supports

6. OPERATOR DAN INSPEKTOR

OPERATORS AND INSPECTORS

Bagian Quality Control
Quality Control Section



PT. RAHMI IDA NUSANTARA

STEEL CONDUIT AND CABLE SUPPORT SYSTEM MANUFACTURER

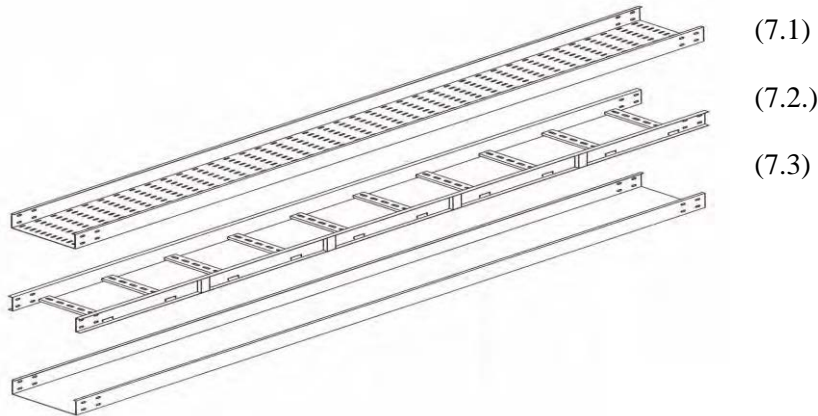
INSTRUKSI KERJA UJI BEBAN WORK INSTRUCTIONS FOR LOADING TEST

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7. BENDA UJI

SPECIMEN

- 7.1. Straight Perforated
- 7.2. Straight Ladder
- 7.3. Straight Duct



8. INSTRUKSI KERJA

WORK INSTRUCTONS

- 8.1. Cek dimensi benda uji meliputi :

Check dimensions of the specimen such as :

- 8.1.1. Panjang
Length
- 8.1.2. Lebar
Width
- 8.1.3. Tinggi
Height
- 8.1.4. Tebal
Thick
- 8.1.5. Dimensi lain yang diperlukan
Other dimensions as needed



Cek lebar benda uji



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Check the width of the specimen

- 8.2. Siapkan penyangga dan atur jarak antar penyangga sesuai jarak span. Toleransi span adalah ± 38 mm (1½ inch).

Prepare and set the support according to the distance of span. Span tolerance is ± 38 mm (1½ inch).

- 8.3. Tempatkan benda uji di atas penyangga yang telah disiapkan dan periksa kembali jarak spannya.

Put the specimen on the support and check again the distance of span.



Cek panjang benda uji

Check the length of the specimen

- 8.4. Tempatkan alat pencatat defleksi pada jarak ¼, ½ dan ¾ span dan catat titik nol defleksi pada 3 titik yang telah ditentukan tersebut.

Put the deflection recording devices at distance of ¼, ½, and ¾ span and record the zero deflection at three predetermined points.



- 8.5. Beban uji minimal yang akan diterapkan harus mengikuti rumus sebagai berikut :

The minimum test load to be applied should follow the following formula :

$$\text{Total beban uji minimal} = 1.5 \times L \times W$$

Total minimum test load

1.5 = safety factor

L = panjang jarak rentang (m)

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STEEL CONDUIT AND CABLE SUPPORT SYSTEM MANUFACTURER

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$$W = \frac{\text{span length (ft)}}{\text{rated load (lb/ft)}} = \text{beban merata (kg/m)}$$

W dan L mengikuti tabel berikut :
W and L follow the table below :

Table 1
HISTORICAL LOAD/SPAN CLASS DESIGNATION
(See Clauses 4.8.1, 4.8.2, and 6.1.2 (c).)

Load, kg/m (lb/ft)	Span, m (ft)				
	2.4 (8)	3.0 (10)	3.7 (12)	4.9 (16)	6.0 (20)
37 (25)	—	A	—	—	—
67 (45)	—	—	—	—	D
74 (50)	8A	—	12A	16A	20A
97 (65)	—	C	—	—	—
112 (75)	8B	—	12B	16B	E or 20B
149 (100)	8C	—	12C	16C	20C
179 (120)	—	D	—	—	—
299 (200)	—	E	—	—	—

NOTE—8A/B/C, 12A/B/C, 16A/B/C, and 20A/B/C have been NEMA designations. A, C, D, and E have been CSA designations.

9. METODE B. PEMBEBANAN UNTUK MENGETAHUI SISA DEFLEKSI

Method B. Loading to determine the residual deflection

9.1. Letakkan beban yang pertama/Initial Load (10% dari total beban uji minimal) ke atas benda uji secara merata sepanjang span. Catat defleksinya di tiga titik yang telah ditentukan.

Put the first load / Initial Load (10% of total minimum test load) on the specimen evenly along the span. Record the deflection at three predetermined points.



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- 9.2. Beri tenggang waktu minimal 1 menit, kemudian letakkan beban yang kedua ke atas benda uji secara merata sepanjang span. Catat defleksinya di tiga titik yang telah ditentukan. Demikian seterusnya sampai beban yang kesepuluh. Beban yang kedua sampai kesepuluh juga 10% dari total beban uji minimal.

Give grace period of at least 1 minute, then put the second load on the specimen evenly along the span. Record the deflection at three predetermined points. And so on until the tenth load. Second load until tenth are also 10% of total minimum test load.

- 9.3. Setelah beban yang kesepuluh diletakkan ke atas benda uji merata sepanjang span atau beban uji minimal sudah diletakkan semua ke atas benda uji secara merata dan defleksi di tiga titik yang telah ditentukan sudah dicatat, tahan total beban uji minimal di atas benda uji minimal selama 30 menit.

After the tenth load had placed on the specimen evenly along the span or the total minimum test load had placed on the specimen evenly along the span and the deflection at three predetermined points was recorded, hold the total minimum test load on the specimen at least 30 minutes.



Total beban uji minimal sudah diletakkan di atas benda uji secara merata sepanjang span dan defleksi pada 3 titik yang telah ditentukan sudah dicatat.

Total minimum test load had placed on the specimen evenly along the span and deflection at three predetermined points had recorded.



Start 10:29



Finish 10:30

- 9.4. Setelah 30 menit, catat defleksi yang terjadi pada 3 titik yang telah ditentukan lalu turunkan semua beban yang ada di atas benda uji.

After 30 minutes, record the deflection at three predetermined points and remove the load on the specimen.



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- 9.5. Setelah semua beban diturunkan, biarkan benda uji tanpa beban selama minimal 15 menit untuk mengurangi defleksi menuju titik nol defleksi (8.4).
After all existing load was removed, let specimen without load at least 15 minutes to reduce the deflection to the point of zero deflection (8.4).
- 9.6. Setelah 15 menit, catat sisa defleksi yang ada dengan acuan titik nol defleksi pada 8.4.
After 15 minutes, record the residual deflection refer to the point of zero deflection (8.4).

10. PENGUKURAN SISA DEFLEKSI

Measurement of residual deflection

Nilai maksimal sisa defleksi yang tercatat adalah 80% dari defleksi yang terjadi karena beban awal/pertama (initial deflection, 9.1).

Maximal point of residual deflection was recorded is 80% from deflection that happen because first load (initial deflection, 9.1).

11. METODE A. UJI BEBAN HINGGA RUSAK

Method A. Destructive Loading Test

- 11.1. Lakukan prosedur uji beban dari tahap 1 sampai 9.2 di atas.
Perform the load test procedure from step 1 to 9.2 above.
- 11.2. Tambahkan beban ke atas specimen sebesar setengah dari beban yang pertama (initial load, 9.1) secara merata sepanjang span. Catat defleksi yang terjadi di tiga titik yang telah ditentukan setiap ada penambahan beban.
Add load on the specimen as big as a half of first load (initial load, 9.1) evenly along the span. Record deflection at three predetermined points every additional load.
- 11.3. Ulangi tahap 9.2 sampai benda uji ambruk. Catat total beban uji pada saat ambruk.
Repeat step 9.2 until the specimen collapsed. Record the total load at the time of collapsed.
- 11.4. Total beban uji pada saat ambruk, setelah dibagi safety factor, dan dibagi lagi dengan span HARUS lebih besar dari Historical Load pada tabel 1 tahap 8.5.
Total test load when collapsed, after divided by safety factor, and divided again by span MUST be greater than the Historical Load in table 1 stage 8.5.
- 11.5. Contoh : Uji Beban NEMA 20C
Example : test load for NEMA 20C

Span = 6m
Historical load = 149 kg/m
Safety factor = 1.5

Total minimum test load = $149 \times 1.5 \times 6 = 1341$ kg
Total load at collapsed time = 1420 Kg
= $(1420) / 1.5 = 946.67$ kg
= $(946.67) / 6 = 157.78$ kg > **149 kg (OK)**



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Section 7

References

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E-mail : sales.jkt@elprosteel.com

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www.elprosteel.com



the standard in safety

Underwriters
Laboratories

Dhemar Nusantara Asia Pacific Pte Ltd

Kheng Chiu Building,
Beach Road #02-03
Singapore 189683

**Attn: Mr. Redi Nusantara
Managing Director**

May 25, 2010

RE: LETTER OF APPOINTMENT FOR ASEAN CHANNEL SALES AGENT

Dear Mr. Redi:

Underwriters Laboratories Inc ("UL") authorizes **Dhemar Nusantara Asia Pacific Pte Ltd**, for the limited purpose of performing sales agent services to act as our sales representative in Indonesia to sell UL's training services.

The sales agency relationship shall remain in effect in Indonesia from the date indicated above for one (1) year. UL may renew this authorization annually. UL may also revoke this authorization at any time according to the agreement signed between UL and the Sales Agent.

If you have any questions or comments, please contact Mr. SoonLee Ng or Underwriters Laboratories, ASEAN Region at

Address:

UL International-Singapore Pte Ltd
1 Maritime Square, HarbourFront Centre
#11-03 Singapore 099253

Tel: +65-6854 7935

Email: SoonLee.Ng@sg.ul.com.

Very Truly Yours,

Janardhanan Chandrasekar
Managing Director & General Manager
Underwriters Laboratories
ASEAN



Federal Hardware Engineering Co. Pte. Ltd.

47/49, Genting Road, Singapore 349489
Tel: 67478118 Facsimile: 67430690, 67450048
GST Registration No: M2-0038837-2
Email Address: admin@fedsin.com.sg
Webpage: <http://www.federal.com.sg>
Registration No.: 198001714M



July 01, 2009

To: PT.RAHMI IDA NUSANTARA
Plaza Niaga I Blok D/5, Kompleks Bukit Seni Estate,
Bogor, 16810 - Indonesia
Tel: 62-21-87962255-59. Fax: 62-21-87962256.

Attn: : PERTAMINA CEPU
To: To whom it may concern

Supporting Letter

Dear Sir,

Please be informed that our company Federal Hardware Engineering Company Private Limited, an integrated supplier for the Oil and Gas and infrastructure industries head quartered in Singapore will support PT.Rahmi Ida Nusantara for any Electrical Bulk and equipment tenders.

This appointment letter will be valid for a period of 1 year taking effect from the date hereof.

Any extension of the date is subject to any mutual agreement by both parties.

Yours Truly,



Sim Teck Kheng
Sales Manager, Electrical Division
Federal Hardware Engineering Co. Pte. Ltd.

SUPPORTING MEMO

This memorandum is made on 9th day of July 2009 between

The first party HWA JANN ENTERPRISE Co. Ltd. (Hereinafter referred as system
supplier)

And

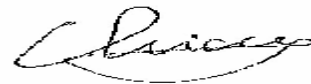
The second party PT RIN Co. Ltd. (Hereinafter referred as agent)

This memorandum is proven that the system supplier will fully support the
technology and best quality of fly ash handling system for securing contracts
bided by agent in Indonesia.

HWA JANN ENTERPRISE Co, Ltd.

VICE PRESIDENT

Jason Chiang

A handwritten signature in black ink, appearing to read 'Jason Chiang', with a horizontal line underneath it.

Fire Protection & Jacket Repair of Electrical Cables

Kristiansand, 10 July 2009

PT. Rahmi Ida Nusantara
Jl. M H Thamrin
Ruko Plaza Niaga # 1-D5
Sentul City, Bogor 16810
Indonesia

*Attn: Mr. Redi Nusantara
Director/Owner*

Appointed Representative
for
Fire Security - Norway

Fire Security is pleased to confirm the appointment of **PT. Rahmi Ida Nusantara** as our authorized agent and representative for the territory of Indonesia.

Fire Security specializes in fire protection, fire technical upgrading, repairing and extending the life of electrical cables and instrument cables. Fire Security's global headquarter is located in Kristiansand, Norway.

This appointment shall be effective from this date and shall prevail over any previous standing appointments.

We look forward to the opportunity to working with you and towards a long term mutually beneficial relationship.

Respectfully yours,

On behalf of Fire Security as

Paal Mathisen

Technical Adviser

Fire Security as



FIRE SECURITY



FIRE SECURITY

www.fire-security.com

Skibåsen 20 B 4636 Kristiansand
Tlf: +47-95 47 80 00
Fax: +47-38 02 15 31
Ent.no. 980 339 807
E-mail: headquarter@fire-security.com

Fire Protection & Jacket Repair of Electrical Cables

Kristiansand 01.12.2009

PT. Rahmi Ida Nusantara

Plaza Niaga I Blok D No. 5
Sentul City - Bogor 16810
Indonesia

Congratulations to PT. Rahmi Ida Nusantara of achieving the Status of Fire Security **Exclusive Distributor** to Premier Oil Natuna Sea BV on this the 30th day of November, 2009. The title of Fire Security Exclusive Distributor entitles PT. Rahmi Ida Nusantara to purchase discounted products from Fire Security, NORWAY for the purpose of distribution, resale and service to the said client in Indonesia. The Distributor has access to all products contained in the Fire Security Product Guide with full inclusion of all associated parts, service and marketing accessories.

The term of this Distributor Agreement is three years from date of inception and is subject to review at the end of each fiscal year. If either party deems it necessary to dissolve this agreement, 60 days written notice will be required.

Throughout the period of this distributor agreement, Fire Security will forward and make aware PT. Rahmi Ida Nusantara of any leads and requests for product in the said market area of Indonesia. In turn, it is the agreement of PT. Rahmi Ida Nusantara to promote and distribute the Fire Security Brand Name products exclusively in relation to products contained in the Fire Security Product Guide. Promotion and distribution of direct competitive products is prohibited.

Signed

Leif Harald Tveitnes
President Fire Security

Date

30-11-2009

Notary Public

The undersigned Notary Public hereby certifies that Leif Harald Tveitnes signed this document in my presence. Please note that the confirmation applies to the signature(s) only, not to the contents of the document.
Kristiansand tingrett, 1 December 2009

Notary Public
Anne Skråvik
førstekonsulent



This is to certify that Anne Skredvåg
is Notary Public in Kristiansand S.
and by virtue of the position thus held is qualified to issue such certificate as the foregoing.

Royal Ministry of Foreign Affairs,
Oslo, this 16th day of DEC 2009

No. of leg.: 13653/09



Roger Krave
Roger Krave
Adviser

No. 174/L/XII/09/N

Seen at the Embassy of the Republic of Indonesia in Oslo, on **29 Dec 2009**

- for the purpose to authenticate the signature of **Roger Krave**
Royal Ministry of Foreign Affairs in **Oslo**
- Authentication of signature does not cover the contents of document.

For the Ambassador,



Mansyur Pangeran
Mansyur Pangeran
Minister Counsellor



FIRE SECURITY

www.fire-security.com

Skibåsen 20 B 4636 Kristiansand
Tlf: +47-95 47 80 00
Fax: +47-38 02 15 31
Ent.no. 980 339 807
E-mail: headquarter@fire-security.com

Fire Protection & Jacket Repair of Electrical Cables

Kristiansand 01.12.2009

PT. Rahmi Ida Nusantara

Plaza Niaga I Blok D No. 5
Sentul City - Bogor 16810
Indonesia

Congratulations to PT. Rahmi Ida Nusantara of achieving the Status of Fire Security **Exclusive Distributor** to PT Pertamina EP Java on this the 30th day of November, 2009. The title of Fire Security Exclusive Distributor entitles PT. Rahmi Ida Nusantara to purchase discounted products from Fire Security, NORWAY for the purpose of distribution, resale and service to the said client in Indonesia. The Distributor has access to all products contained in the Fire Security Product Guide with full inclusion of all associated parts, service and marketing accessories.

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Signed

Date

30-11-2009

Leif Harald Tveitnes
President Fire Security

Notary Public

The undersigned Notary Public hereby certifies that Leif Harald Tveitnes signed this document in my presence. Please note that the confirmation applies to the signature(s) only, not to the contents of the document.
Kristiansand tingrett, 1 December 2009

Notary Public
Anne Skråvik
førstekonsulent



This is to certify that Anne Shråvik
is Notary Public in Kristiansand S.
and by virtue of the position thus held is qualified to issue such certificate as the foregoing.

Royal Ministry of Foreign Affairs,
Oslo, this 16th day of DEC 2009

No. of leg.: 13654/09



Roger Krave
Roger Krave
Adviser

No. 175/L/XII/09/N

Seen at the Embassy of the Republic of Indonesia in Oslo, on **29 Dec 2009**

- for the purpose to authenticate the signature of **Roger Krave**
Royal Ministry of Foreign Affairs in **Oslo**
- Authentication of signature does not cover the contents of document.

For the Ambassador,



Mansyur Pangeran
Mansyur Pangeran
Minister Counsellor



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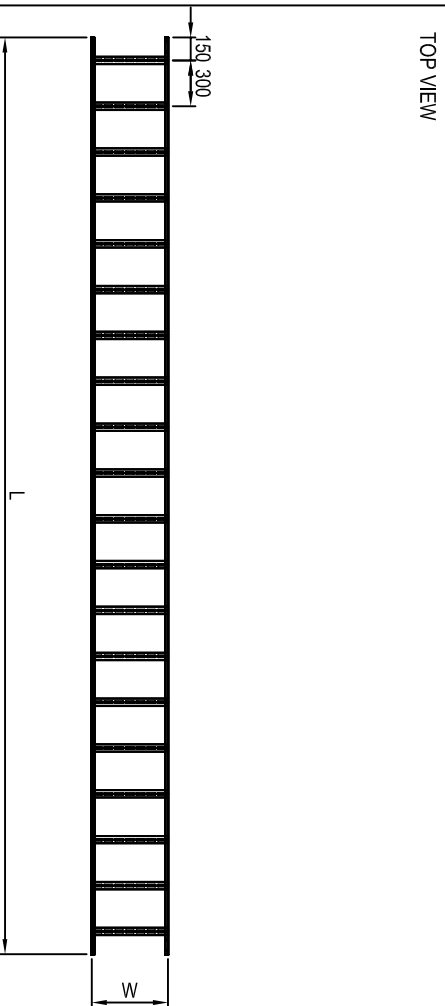
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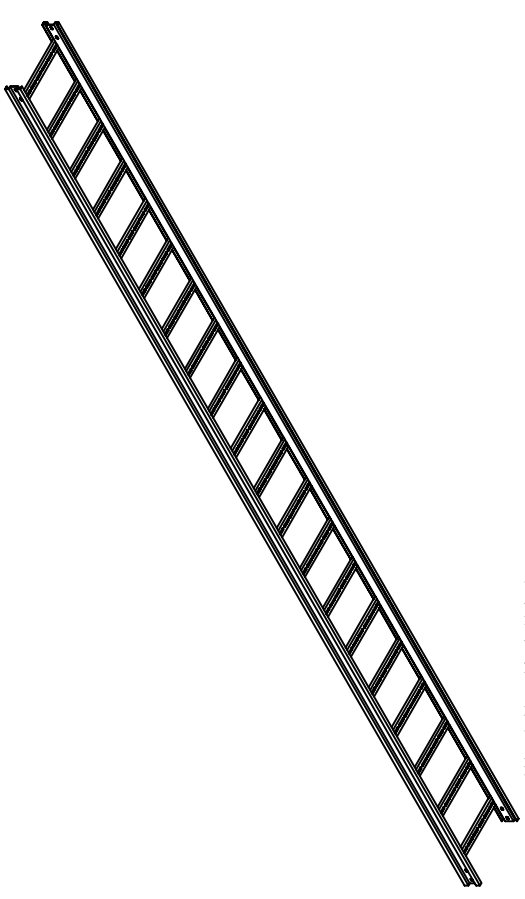
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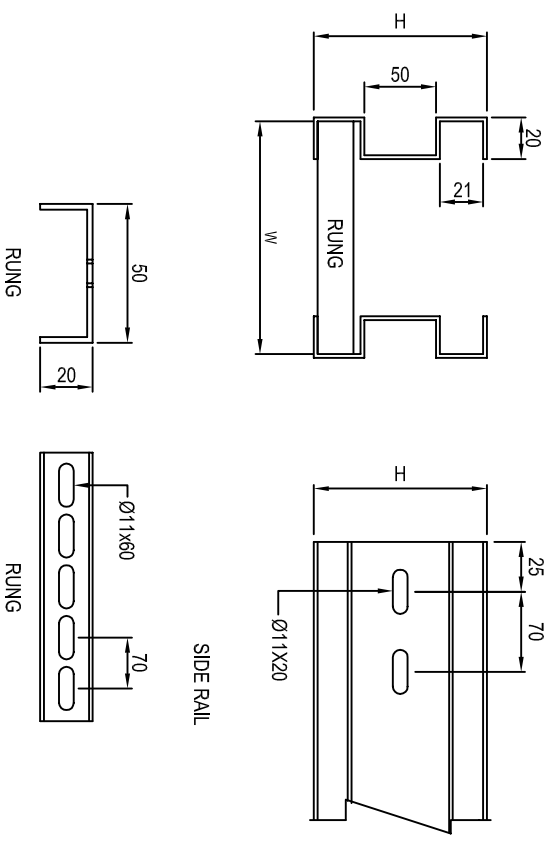
TOP VIEW



ISOMETRIC VIEW

- NEMA VE-1 Metal Cable Tray
- CSA C22.2 Specification 128.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- Fire Rated to AS / NZ 3013 : 1995

SECTION VIEW



Material : JIS 3131 Hot-Rolled Mild Steel Plates, Thickness 2 mm

Finishing : Hot Dip Galvanizing

Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
- Width, Height, Bending Radius : ±1 mm
- Rung Spacing : ±5 mm
- Hole to hole, hole to edge : ± 0.5 mm
- Size of hole : + 0.5 mm / - 0 mm
- Other overall dimensions : ± 1 mm

Standard : NEMA VE-1 Class 20 B

NO	CODE	W	H	L
1	EL.SLH-100	100	100	6000
2	EL.SLH-200	200	100	6000
3	EL.SLH-300	300	100	6000
4	EL.SLH-400	400	100	6000
5	EL.SLH-500	500	100	6000
6	EL.SLH-600	600	100	6000
7	EL.SLH-700	700	100	6000
8	EL.SLH-800	800	100	6000
9	EL.SLH-900	900	100	6000
10	EL.SLH-1000	1000	100	6000

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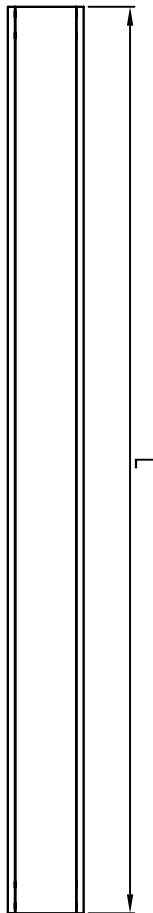
REV.	DATE	DESCRIPTION	REVISOR	CHECKED	APPROVED
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

TITLE :
STRAIGHT LADDER HEAVY
(6 M LENGTH)

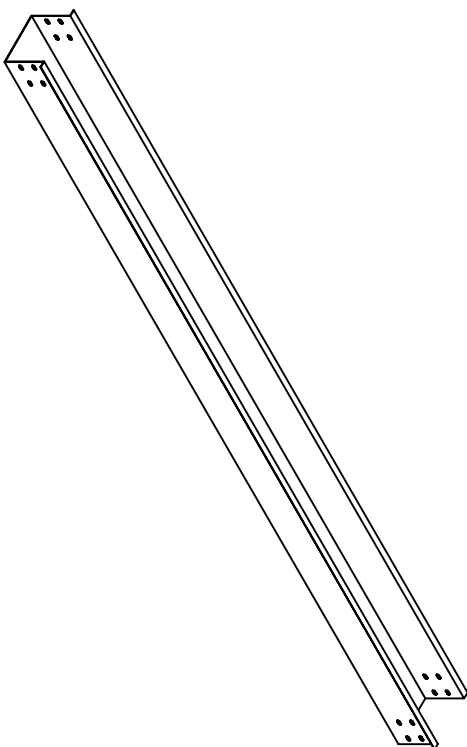
UNIT :	mm	SCALE :	NTS	3RD ANGLE
PREPARED BY OR SUB-CONTRACTOR				
PT. RAHMI IDA NUSANTARA				

REV.	0	SHEET	8
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TOP VIEW

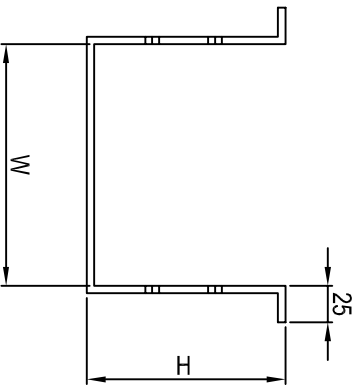


ISOMETRIC VIEW

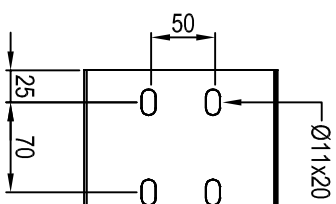


- NEMA VE-1 Metal Cable Tray
- CSA C22.2 Specification 125.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- Fire Rated to AS / NZ 3013 : 1995

SECTION VIEW



FRONT VIEW



Material : JIS 3131 Hot-Rolled Mild Steel Plates, Thickness 2 mm
 Finishing : Hot Dip Galvanizing
 Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
 - Width, Height, Bending Radius : ±1 mm
 - Runng Spacing : ±5 mm
 - Hole to hole, hole to edge : ± 0.5 mm
 - Size of hole : + 0.5 mm / - 0 mm
 - Other overall dimensions : ± 1 mm
- Standard : NEMA VE-1 Class 12 C

NO	CODE	W	H	L
1	ELSD-100	100	150	3000
2	ELSD-150	150	150	3000
3	ELSD-200	200	150	3000
4	ELSD-250	250	150	3000
5	ELSD-300	300	150	3000
6	ELSD-400	400	150	3000
7	ELSD-500	500	150	3000
8	ELSD-600	600	150	3000
9	ELSD-700	700	150	3000
10	ELSD-800	800	150	3000

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REV.	DATE	DESCRIPTION	REVISOR	CHECKED	APPROVED
1			Ami Polyana	M. Nurudin	

TITLE :
 STRAIGHT DUCT
 (3 M LENGTH)

UNIT : mm SCALE : NTS 3RD ANGLE

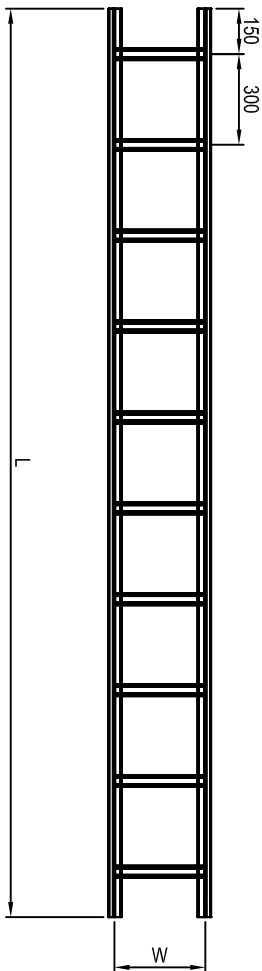
PREPARED BY OR SUB-CONTRACTOR



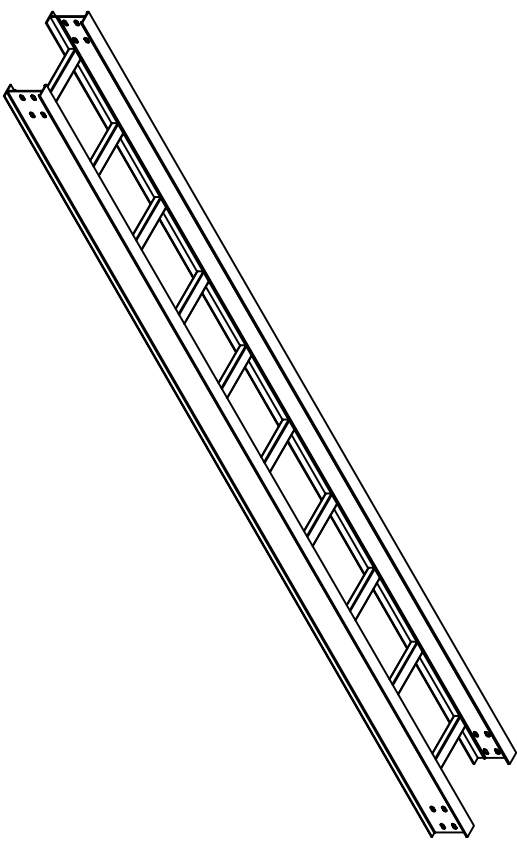
PT. RAHMI IDA NUSANTARA

REV / SHEET
 0 / 3

TOP VIEW

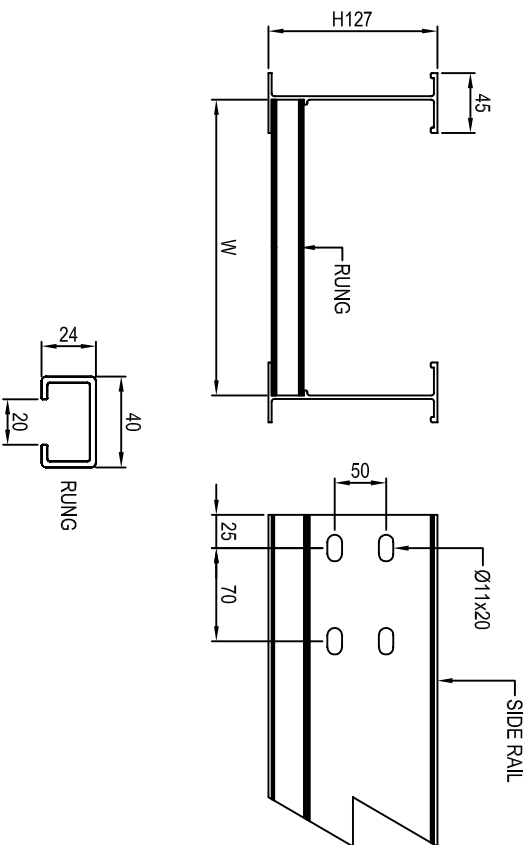


ISOMETRIC VIEW



- NEMA VE-1 Metal Cable Tray
- CSA C22.2 Specification 128.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- File Rated to AS / NZ 3013 : 1995

SECTION VIEW



Material : Aluminium, Thickness 2,5 mm

Finishing : Natural

Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
 - Width, Height, Bending Radius : ±1 mm
 - Rung Spacing : ±5 mm
 - Hole to hole, hole to edge : ± 0,5 mm
 - Size of hole : + 0,5 mm / - 0 mm
 - Other overall dimensions : ± 1 mm
- Standard : NEMA VE-1 Class 12 C

NO	CODE	W	H	L
1	EL.SLA-100	100	127	3000
2	EL.SLA-200	200	127	3000
3	EL.SLA-300	300	127	3000
4	EL.SLA-400	400	127	3000
5	EL.SLA-500	500	127	3000
6	EL.SLA-600	600	127	3000
7	EL.SLA-700	700	127	3000
8	EL.SLA-800	800	127	3000
9	EL.SLA-900	900	127	3000
10	EL.SLA-1000	1000	127	3000

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REV.	DATE	DESCRIPTION	REVISOR	CHECKED	APPROVED
1			Ami Piyono		
2			M. Nurudin		
3					
4					
5					
6					
7					
8					
9					
10					

TITLE :
STRAIGHT LADDER ALUMINIUM
(3 M LENGTH)

UNIT : mm SCALE : NTS 3RD ANGLE

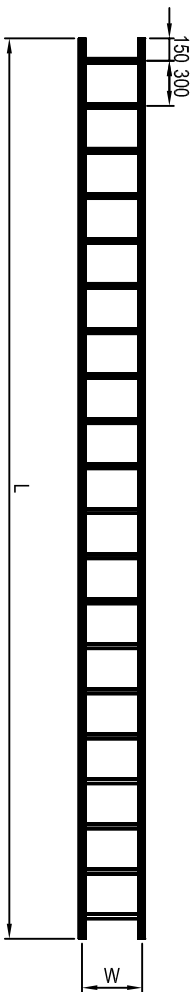
PREPARED BY OR SUB-CONTRACTOR



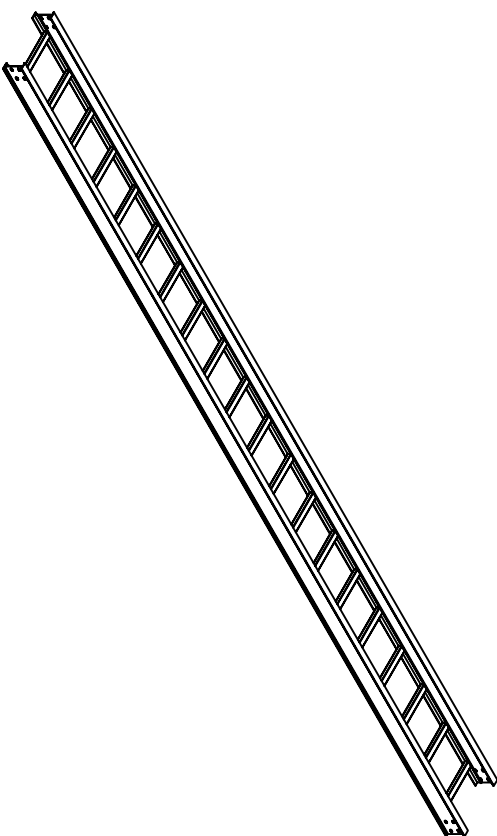
PT. RAHMI IDA NUSANTARA

REV / SHEET
0 / 11

TOP VIEW

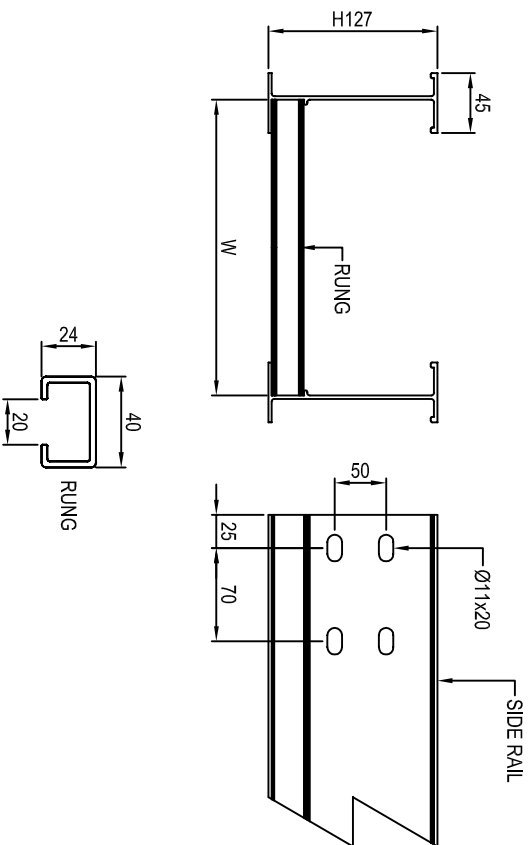


ISOMETRIC VIEW



- NEMA VE-1 Metal Cable Tray
- CSA C22.2 Specification 128.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- Fire Rated to AS / NZ 3013 : 1995

SECTION VIEW



Material : Aluminium, Thickness 2.5 mm

Finishing : Natural

Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
 - Width, Height, Bending Radius : ±1 mm
 - Rung Spacing : ±5 mm
 - Hole to hole, hole to edge : ± 0.5 mm
 - Size of hole : + 0.5 mm / - 0 mm
 - Other overall dimensions : ± 1 mm
- Standard : NEMA VE-1 Class 12 C

NO	CODE	W	H	L
1	EL.SLA-100	100	127	6000
2	EL.SLA-200	200	127	6000
3	EL.SLA-300	300	127	6000
4	EL.SLA-400	400	127	6000
5	EL.SLA-500	500	127	6000
6	EL.SLA-600	600	127	6000
7	EL.SLA-700	700	127	6000
8	EL.SLA-800	800	127	6000
9	EL.SLA-900	900	127	6000
10	EL.SLA-1000	1000	127	6000

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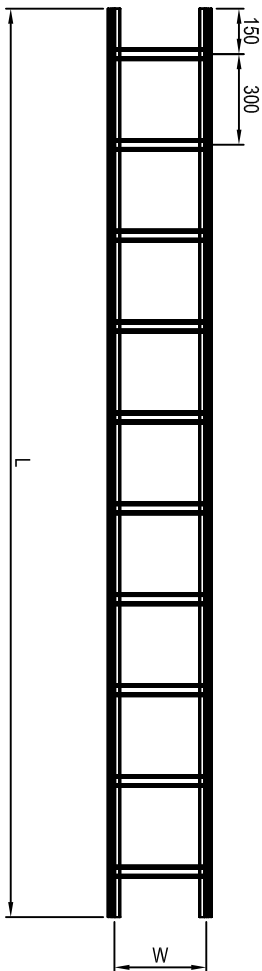
REV.	DATE	DESCRIPTION	REVISED BY	CHECKED BY	APPROVED BY
1			Zain Piyono	M. Nurudin	

TITLE : STRAIGHT LADDER ALUMINIUM (6 M LENGTH)

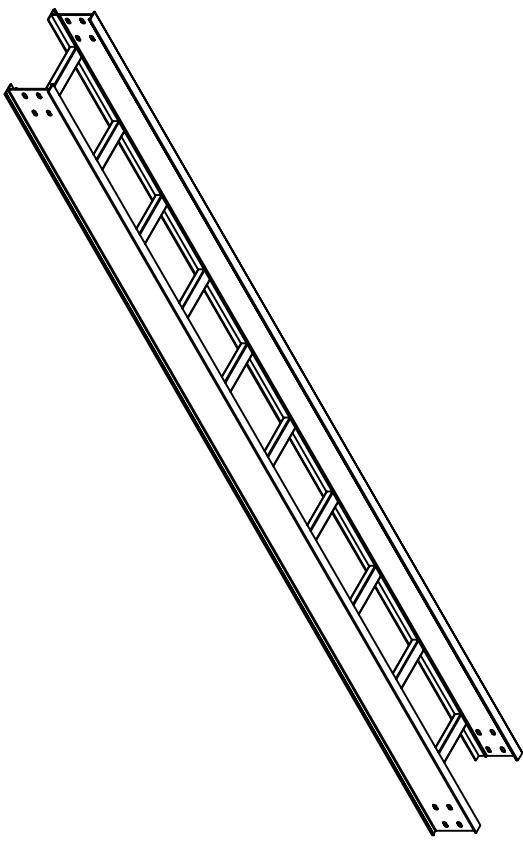
UNIT :	mm	SCALE :	NTS	3RD ANGLE
PREPARED BY OR SUB-CONTRACTOR				
PT. RAHMI IDA NUSANTARA				

REV	0	SHEET	12
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TOP VIEW

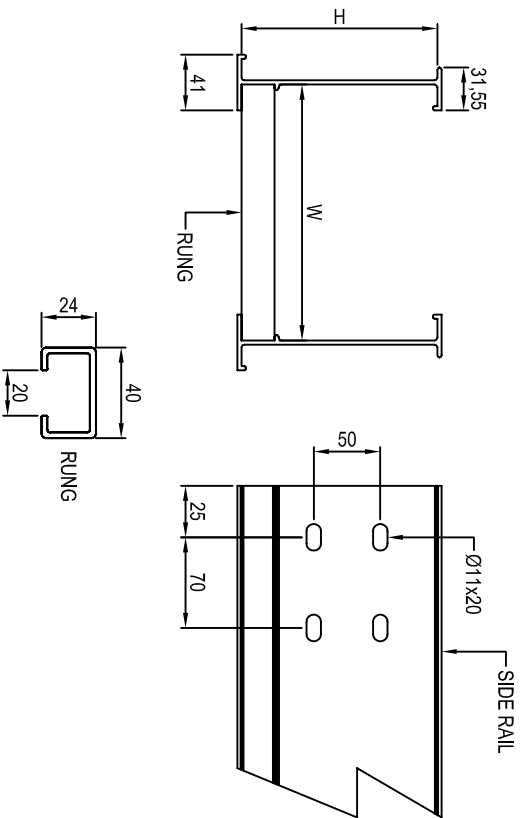


ISOMETRIC VIEW



- NEMA VE-1 Metal Cable Tray
- CSA G22.2 Specification 125.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- Fire Rated to AS / NZ 3013 : 1995

SECTION VIEW



Material : Aluminium, Thickness 3,1 mm

Finishing : Natural

Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
- Width, Height, Bending Radius : ±1 mm
- Rung Spacing : ±5 mm
- Hole to hole, hole to edge : ± 0,5 mm
- Hole to hole, hole to edge : ± 0,5 mm
- Size of hole : + 0,5 mm / - 0 mm
- Other overall dimensions : ± 1 mm

Standard : NEMA VE-1 Class 12 C

NO	CODE	W	H	L
1	EL.SLA-100	100	150	3000
2	EL.SLA-200	200	150	3000
3	EL.SLA-300	300	150	3000
4	EL.SLA-400	400	150	3000
5	EL.SLA-500	500	150	3000
6	EL.SLA-600	600	150	3000
7	EL.SLA-700	700	150	3000
8	EL.SLA-800	800	150	3000
9	EL.SLA-900	900	150	3000
10	EL.SLA-1000	1000	150	3000

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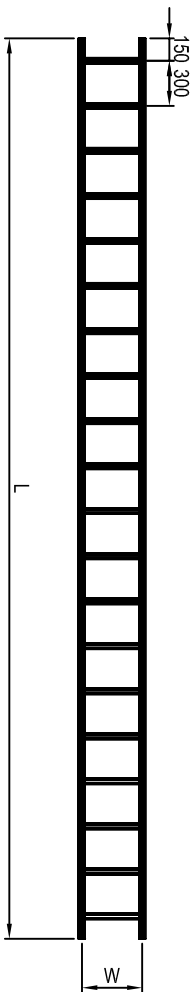
REV.	DATE	DESCRIPTION	REVISOR	CHECKED	APPROVED

TITLE :
STRAIGHT LADDER ALUMINIUM
(3 M LENGTH)

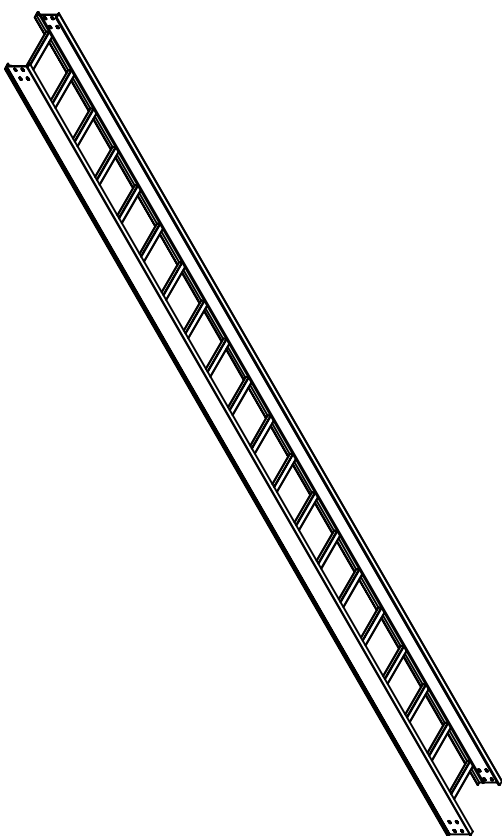
UNIT :	mm	SCALE :	NTS	3RD ANGLE
PREPARED BY OR SUB-CONTRACTOR	PT. RAHMI IDA NUSANTARA			

REV	0	SHEET	13
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TOP VIEW

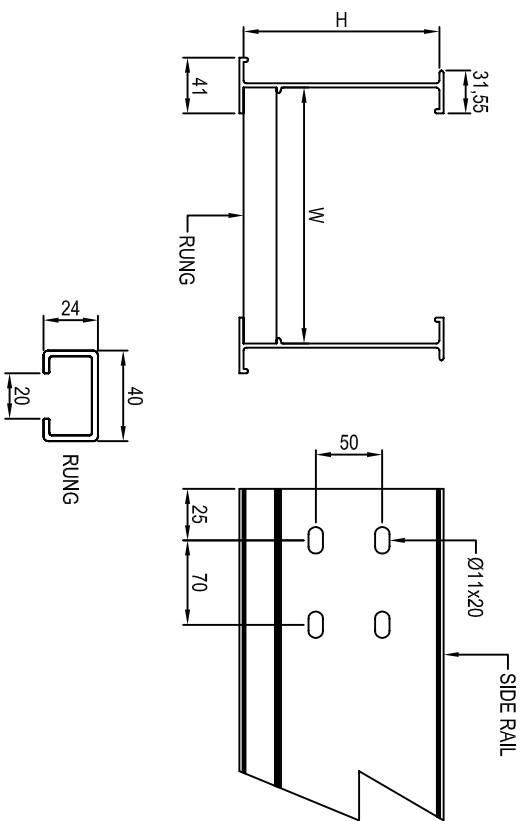


ISOMETRIC VIEW



- NEMA VE-1 Metal Cable Tray
- CSA C22.2 Specification 125.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- Fire Rated to AS / NZ 3013 : 1995

SECTION VIEW



Material : Aluminium, Thickness 2.5 mm

Finishing : Natural

Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
 - Width, Height, Bending Radius : ±1 mm
 - Rung Spacing : ±5 mm
 - Hole to hole, hole to edge : ± 0.5 mm
 - Size of hole : + 0.5 mm / - 0 mm
 - Other overall dimensions : ± 1 mm
- Standard : NEMA VE-1 Class 12 C

NO	CODE	W	H	L
1	EL.SLA-100	100	150	6000
2	EL.SLA-200	200	150	6000
3	EL.SLA-300	300	150	6000
4	EL.SLA-400	400	150	6000
5	EL.SLA-500	500	150	6000
6	EL.SLA-600	600	150	6000
7	EL.SLA-700	700	150	6000
8	EL.SLA-800	800	150	6000
9	EL.SLA-900	900	150	6000
10	EL.SLA-1000	1000	150	6000

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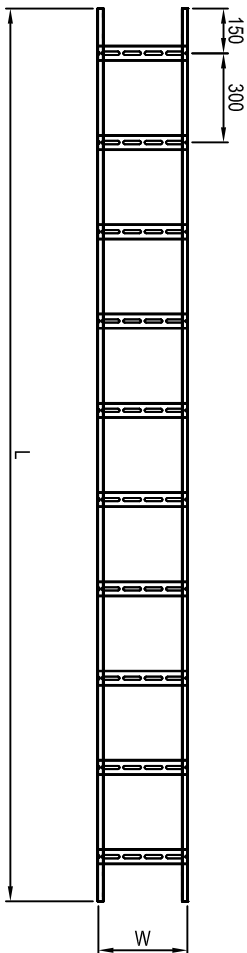
REV.	DATE	DESCRIPTION	REVISOR	CHECKED	APPROVED
1			Ami Piyono	M. Nurudin	

TITLE : STRAIGHT LADDER ALUMINIUM (6 M LENGTH)

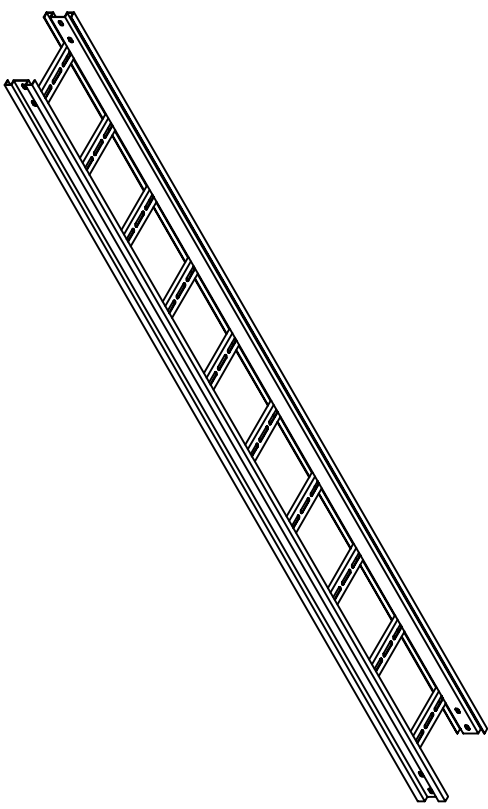
UNIT :	mm	SCALE :	NTS	3RD ANGLE
PREPARED BY OR SUB-CONTRACTOR				
PT. RAHMI IDA NUSANTARA				

REV	0	SHEET	14
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TOP VIEW

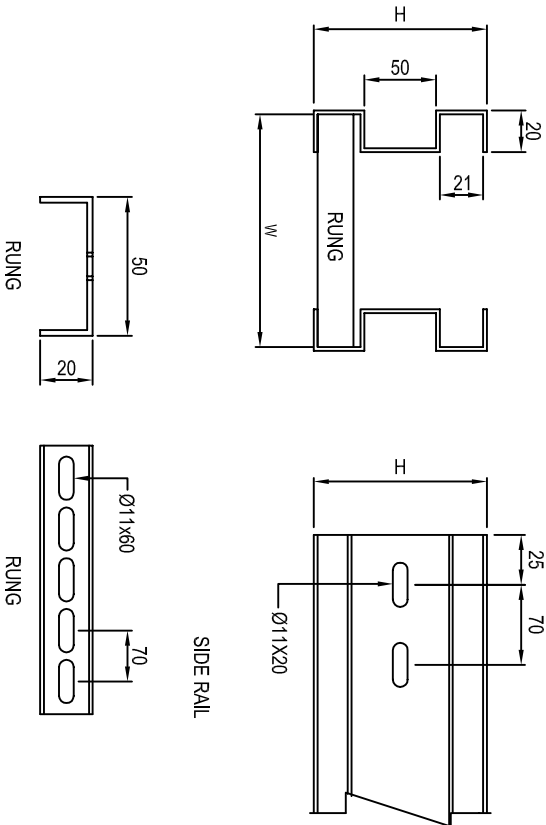


ISOMETRIC VIEW



- NEMA VE-1 Metal Cable Tray
- CSA G22.2 Specification 125.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- Fire Rated to AS / NZ 3013 : 1995

SECTION VIEW



Material : JIS 3131 Hot-Rolled Mild Steel Plates, Thickness 2 mm

Finishing : Hot Dip Galvanizing

Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
 - Width, Height, Bending Radius : ±1 mm
 - Rung Spacing : ±5 mm
 - Hole to hole, hole to edge : ± 0.5 mm
 - Size of hole : + 0.5 mm / - 0 mm
 - Other overall dimensions : ± 1 mm
- Standard : NEMA VE-1 Class 12 C

NO	CODE	W	H	L
1	EL.SLH-100	100	100	3000
2	EL.SLH-200	200	100	3000
3	EL.SLH-300	300	100	3000
4	EL.SLH-400	400	100	3000
5	EL.SLH-500	500	100	3000
6	EL.SLH-600	600	100	3000
7	EL.SLH-700	700	100	3000
8	EL.SLH-800	800	100	3000
9	EL.SLH-900	900	100	3000
10	EL.SLH-1000	1000	100	3000

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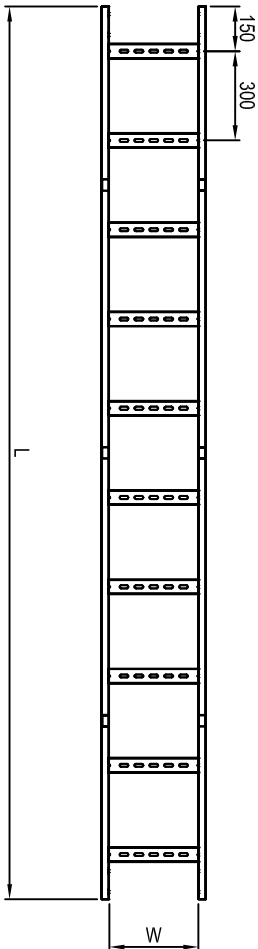
REV.	DATE	DESCRIPTION	REVISOR	CHECKED	APPROVED
1			Ami Polyana	M. Nurudin	

TITLE :
STRAIGHT LADDER HEAVY
(3 M LENGTH)

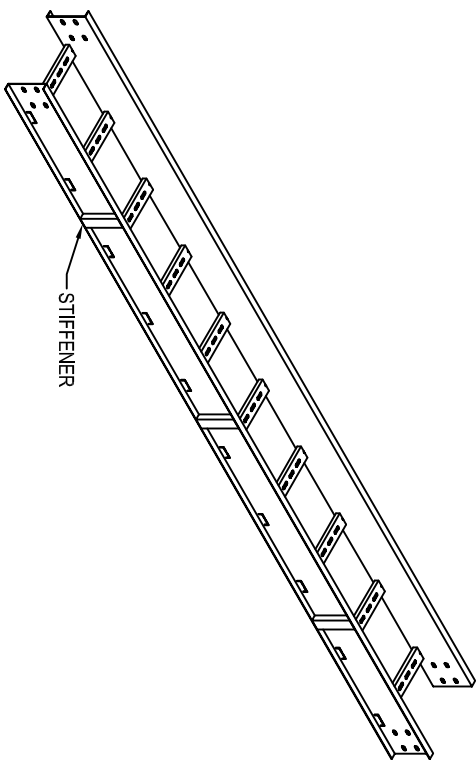
UNIT :	mm	SCALE :	NTS	3RD ANGLE
PREPARED BY OR SUB-CONTRACTOR				
PT. RAHMI IDA NUSANTARA				

REV.	0	SHEET	7
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TOP VIEW

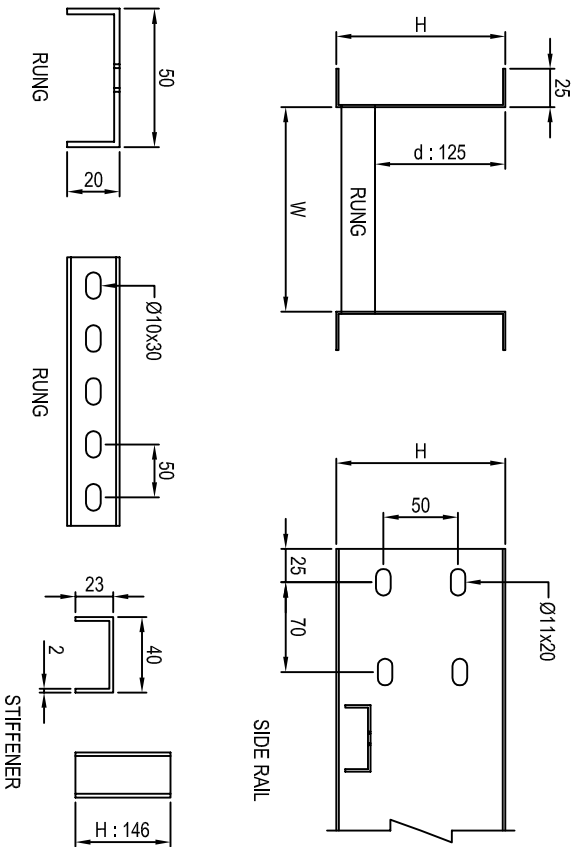


ISOMETRIC VIEW



- NEMA VE-1 Metal Cable Tray
- CSA C22.2 Specification 125.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- File Rated to AS / NZ 3013 : 1995

SECTION VIEW



Material : JIS 3131 Hot-Rolled Mild Steel Plates, Thickness 2 mm
 Finishing : Hot Dip Galvanizing
 Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
 - Width, Height, Bending Radius : ±1 mm
 - Rung Spacing : ±5 mm
 - Hole to hole, hole to edge : ± 0.5 mm
 - Size of hole : + 0.5 mm / - 0 mm
 - Other overall dimensions : ± 1 mm
- Standard : NEMA VE-1 Class 12 C

NO	CODE	W	H	L
1	EL.SLHD-100	100	150	3000
2	EL.SLHD-200	200	150	3000
3	EL.SLHD-300	300	150	3000
4	EL.SLHD-400	400	150	3000
5	EL.SLHD-500	500	150	3000
6	EL.SLHD-600	600	150	3000
7	EL.SLHD-700	700	150	3000
8	EL.SLHD-800	800	150	3000
9	EL.SLHD-900	900	150	3000
10	EL.SLHD-1000	1000	150	3000

REV.	DATE	DESCRIPTION	REVISOR	CHECKED	APPROVED
1			Ami Polyano	M. Nurudin	

TITLE : STRAIGHT LADDER HEAVY DUTY (3 M LENGTH)

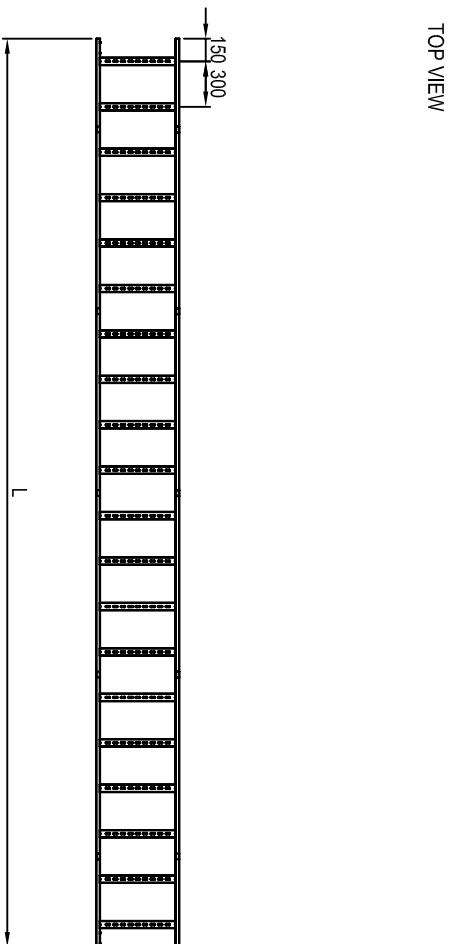
UNIT : mm SCALE : NTS

PREPARED BY OR SUB-CONTRACTOR : PT. RAHMI IDA NUSANTARA

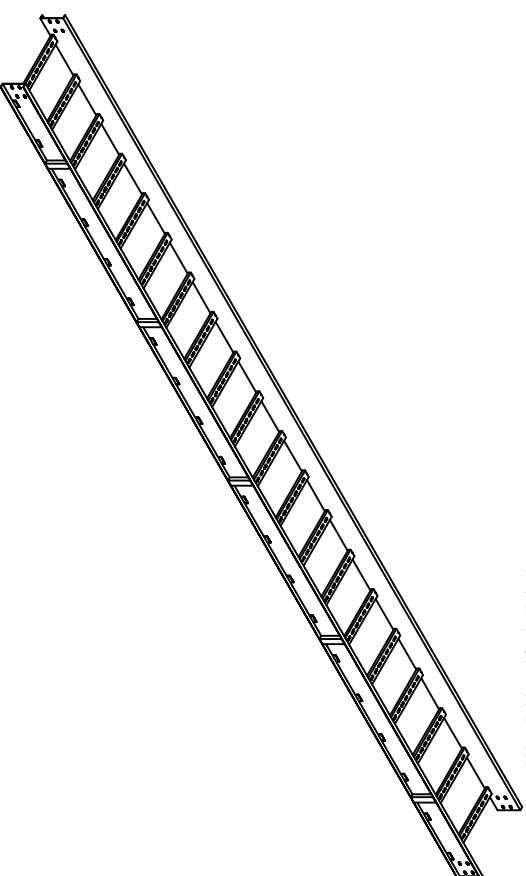
3RD ANGLE

REV	0
SHEET	5

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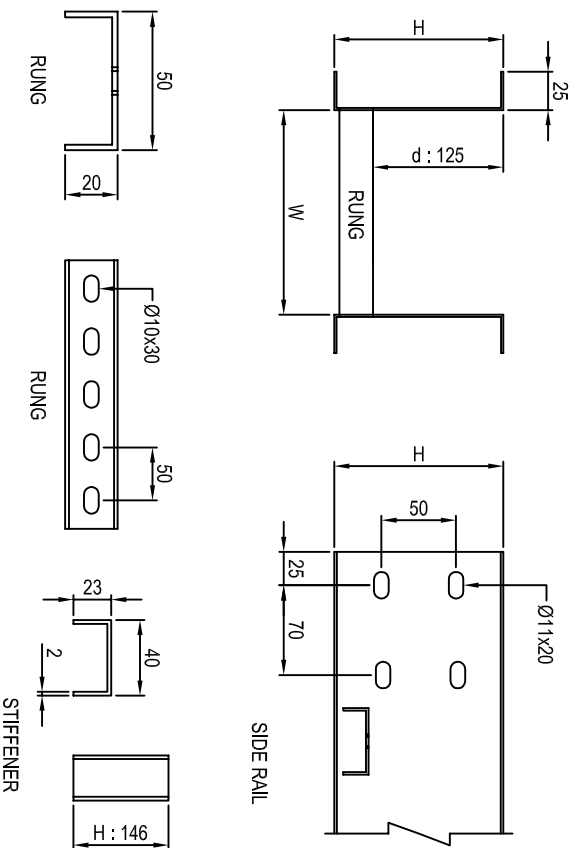


ISOMETRIS VIEW



- NEMA VE-1 Metal Cable Tray
- CSA C22.2 Specification 125.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- Fire Rated to AS / NZ 3013 : 1995

SECTION VIEW



Material : JIS 3131 Hot-Rolled Mild Steel Plates, Thickness 2 mm
 Finishing : Hot Dip Galvanizing
 Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
 - Width, Height, Bending Radius : ±1 mm
 - Rung Spacing : ±5 mm
 - Hole to hole, hole to edge : ± 0,5 mm
 - Size of hole : + 0,5 mm / - 0 mm
 - Other overall dimensions : ± 1 mm
- Standard : NEMA VE-1 Class 20 B

NO	CODE	W	H	L
1	EL.SLHD-100	100	150	6000
2	EL.SLHD-200	200	150	6000
3	EL.SLHD-300	300	150	6000
4	EL.SLHD-400	400	150	6000
5	EL.SLHD-500	500	150	6000
6	EL.SLHD-600	600	150	6000
7	EL.SLHD-700	700	150	6000
8	EL.SLHD-800	800	150	6000
9	EL.SLHD-900	900	150	6000
10	EL.SLHD-1000	1000	150	6000

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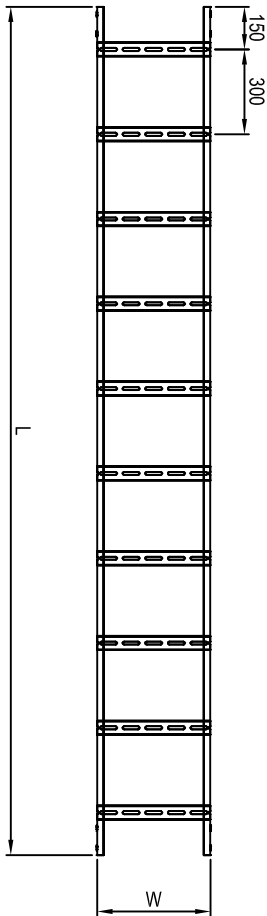
REV.	DATE	DESCRIPTION	REVISOR	CHECKED	APPROVED
1			Zaini Pilyanda	M. Nurudin	

TITLE : STRAIGHT LADDER HEAVY DUTY (6 M LENGTH)

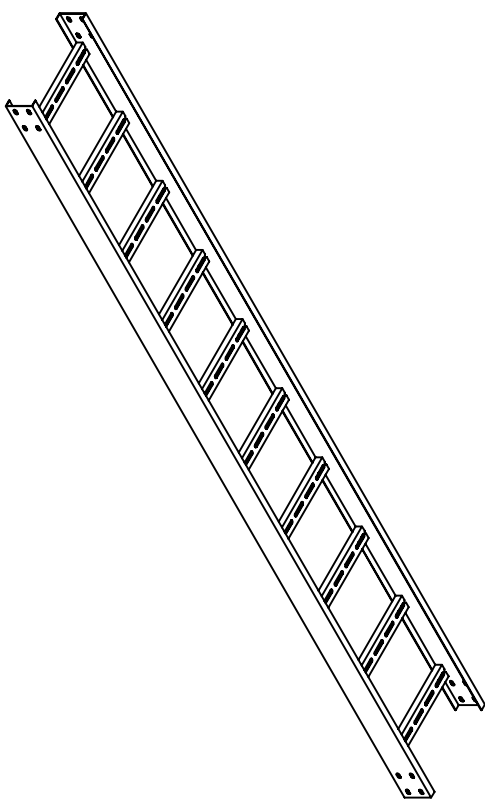
UNIT : mm	SCALE : NTS	3RD ANGLE
PREPARED BY OR SUB-CONTRACTOR		
PT. RAHMI IDA NUSANTARA		

REV	SHEET
0	6

TOP VIEW

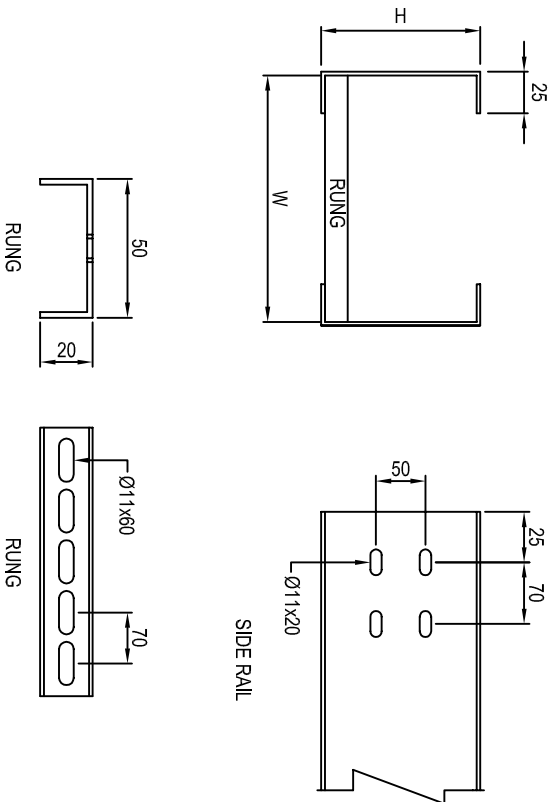


ISOMETRIC VIEW



- NEMA VE-1 Metal Cable Tray
- CSA C22.2 Specification 125.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- File Rated to AS / NZ 3013 : 1995

SECTION VIEW



Material : JIS 3131 Hot-Rolled Mild Steel Plates, Thickness 2 mm
 Finishing : Hot Dip Galvanizing
 Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
 - Width, Height, Bending Radius : ±1 mm
 - Rung Spacing : ±5 mm
 - Hole to hole, hole to edge : ± 0.5 mm
 - Size of hole : + 0.5 mm / - 0 mm
 - Other overall dimensions : ± 1 mm
- Standard : NEMA VE-1 Class 12 C

NO	CODE	W	H	L
1	EL.SLL-100	100	100	3000
2	EL.SLL-200	200	100	3000
3	EL.SLL-300	300	100	3000
4	EL.SLL-400	400	100	3000
5	EL.SLL-500	500	100	3000
6	EL.SLL-600	600	100	3000
7	EL.SLL-700	700	100	3000
8	EL.SLL-800	800	100	3000
9	EL.SLL-900	900	100	3000
10	EL.SLL-1000	1000	100	3000

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REV.	DATE	DESCRIPTION	REVISOR	CHECKED	APPROVED
1			Zaini Piyawan	M. Nurudin	

TITLE : STRAIGHT LADDER LIGHT (3 M LENGTH)

UNIT : mm SCALE : NTS

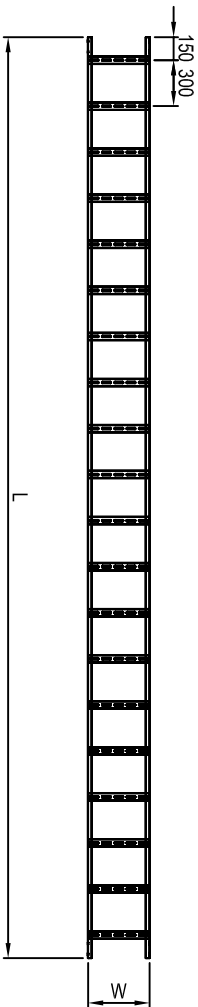
PREPARED BY OR SUB-CONTRACTOR

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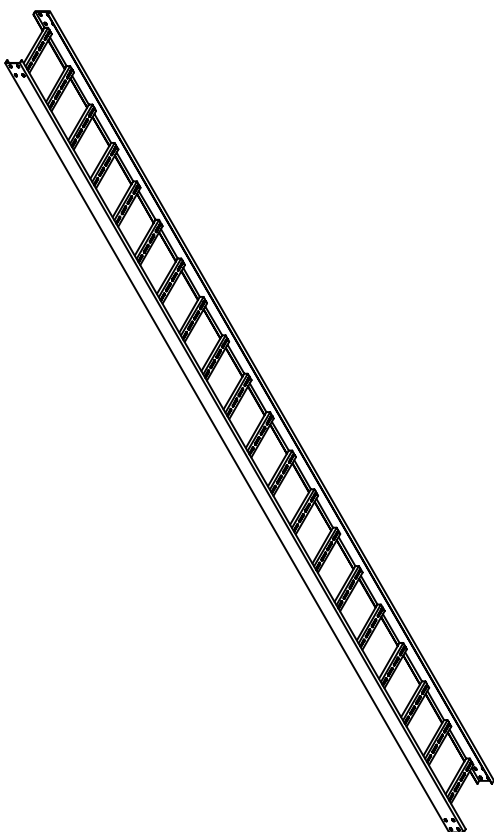
3RD ANGLE

REV	0	SHEET	9
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TOP VIEW

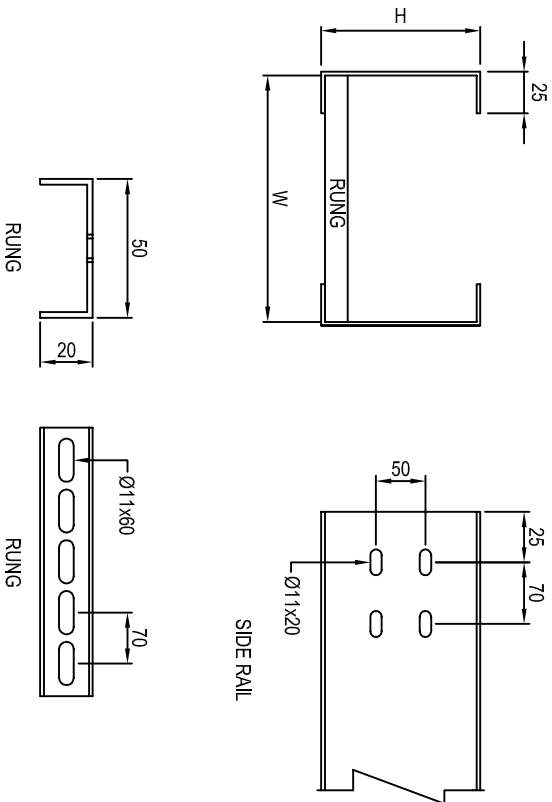


ISOMETRIC VIEW



- NEMA VE-1 Metal Cable Tray
- CSA C22.2 Specification 128.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- Fire Rated to AS / NZ 3013 : 1995

SECTION VIEW



Material : JIS 3131 Hot-Rolled Mild Steel Plates, Thickness 2 mm

Finishing : Hot Dip Galvanizing

Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
 - Width, Height, Bending Radius : ±1 mm
 - Rung Spacing : ±5 mm
 - Hole to hole, hole to edge : ± 0.5 mm
 - Size of hole : + 0.5 mm / - 0 mm
 - Other overall dimensions : ± 1 mm
- Standard : NEMA VE-1 Class 20 B

NO	CODE	W	H	L
1	EL.SLL-100	100	100	6000
2	EL.SLL-200	200	100	6000
3	EL.SLL-300	300	100	6000
4	EL.SLL-400	400	100	6000
5	EL.SLL-500	500	100	6000
6	EL.SLL-600	600	100	6000
7	EL.SLL-700	700	100	6000
8	EL.SLL-800	800	100	6000
9	EL.SLL-900	900	100	6000
10	EL.SLL-1000	1000	100	6000

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REV.	DATE	DESCRIPTION	REVISOR	CHECKED	APPROVED
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

TITLE : STRAIGHT LADDER LIGHT
(6 M LENGTH)

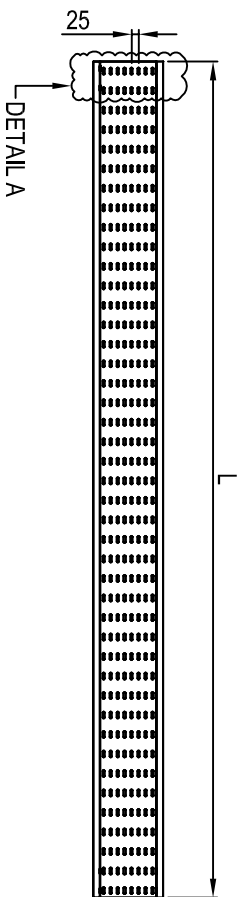
UNIT : mm SCALE : NTS

PREPARED BY OR SUB-CONTRACTOR :

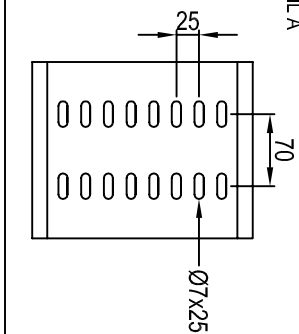
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REV	SHEET
0	10

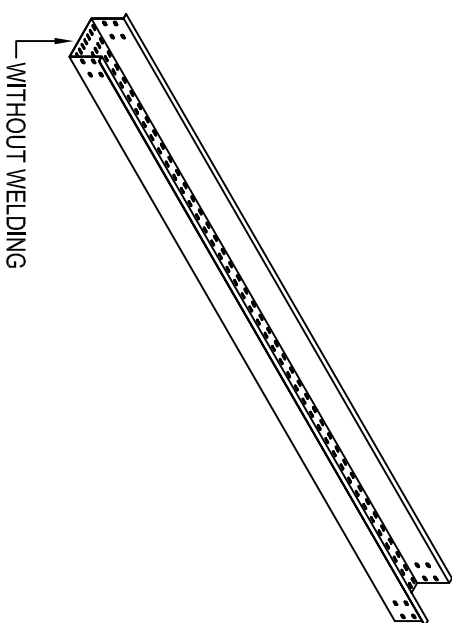
TOP VIEW



DETAIL A

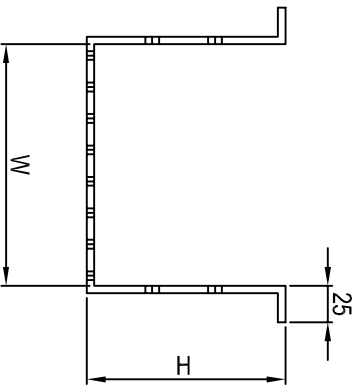


ISOMETRIC VIEW

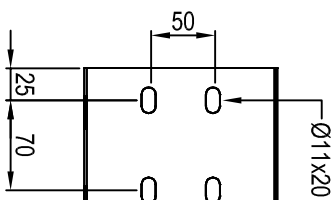


- NEMA VE-1 Metal Cable Tray
- CSA C22.2 Specification 128.1 Metal Cable Tray
- IEC 61537 Cable Tray & Cable Ladder Systems
- Fire Rated to AS / NZ 3013 : 1995

SECTION VIEW



FRONT VIEW



Material : JIS 3131 Hot-Rolled Mild Steel Plates, Thickness 2 mm
 Finishing : Hot Dip Galvanizing
 Applicable Tolerance :

- Length of straight ladder, perforated tray and cover : ±5 mm
 - Width, Height, Bending Radius : ±1 mm
 - Rung Spacing : ±5 mm
 - Hole to hole, hole to edge : ± 0.5 mm
 - Hole to hole, hole to edge : ± 0.5 mm
 - Size of hole : + 0.5 mm / - 0 mm
 - Other overall dimensions : ± 1 mm
- Standard : NEMA VE-1 Class 12 C

NO	CODE	W	H	L
1	EL-ST-100	100	150	3000
2	EL-ST-150	150	150	3000
3	EL-ST-200	200	150	3000
4	EL-ST-250	250	150	3000
5	EL-ST-300	300	150	3000
6	EL-ST-400	400	150	3000
7	EL-ST-500	500	150	3000
8	EL-ST-600	600	150	3000
9	EL-ST-700	700	150	3000
10	EL-ST-800	800	150	3000

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REV.	DATE	DESCRIPTION	REVISOR	CHECKED	APPROVED
1			Zaini Palyana	M. Nurudin	

TITLE : STRAIGHT PERFORATED TYPE CABLE TRAY
 (3 M LENGTH)

UNIT : mm SCALE : NTS 3RD ANGLE

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REV	SHEET
0	1