



21 September 2012  
21 September 2012  
P.U. (A) 308

WARTA KERAJAAN PERSEKUTUAN

*FEDERAL GOVERNMENT  
GAZETTE*

PERINTAH KILANG DAN JENTERA (PENGECUALIAN  
KEPADA PETRONAS CHEMICALS FERTILISER KEDAH  
SDN. BHD., GURUN, KEDAH) 2012

*FACTORIES AND MACHINERY (EXEMPTION TO PETRONAS  
CHEMICALS FERTILISER KEDAH SDN. BHD., GURUN,  
KEDAH) ORDER 2012*



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ATTORNEY GENERAL'S CHAMBERS

AKTA KILANG DAN JENTERA 1967

PERINTAH KILANG DAN JENTERA (PENGECUALIAN KEPADA PETRONAS CHEMICALS FERTILISER KEDAH SDN. BHD., GURUN, KEDAH) 2012

PADA menjalankan kuasa yang diberikan oleh subseksyen 55(3) Akta Kilang dan Jentera 1967 [*Akta 139*], Menteri membuat perintah yang berikut:

**Nama**

1. Perintah ini bolehlah dinamakan **Perintah Kilang dan Jentera (Pengecualian kepada Petronas Chemicals Fertiliser Kedah Sdn. Bhd., Gurun, Kedah) 2012**.

**Pengecualian**

2. Semua dandang stim dan bejana tekanan tidak berapi yang didaftarkan dengan Ketua Pemeriksa, dengan nombor pendaftaran dan perihalan yang dinyatakan dalam ruang (1) dan (2) Jadual, atas nama Petronas Chemicals Fertiliser Kedah Sdn. Bhd., Gurun, Kedah yang telah diberikan perakuan kelayakan, dikecualikan daripada persediaan yang dikehendaki di bawah perenggan 17(*a*) dan 17(*b*) Peraturan-Peraturan (Pemberitahu, Perakuan Kelayakan dan Pemeriksaan) Kilang dan Jentera 1970 [*P.U. (A) 43/1970*] bagi pemeriksaan ulangan yang berikutnya selepas habis tempoh perakuan kelayakan itu pada 17 Julai 2012.

**Syarat pengecualian**

3. Pengecualian di bawah perenggan 2 tertakluk kepada syarat bahawa semua dandang stim dan bejana tekanan tidak berapi yang dinyatakan dalam Jadual telah menjalani pemeriksaan luaran dan ujian tanpa musnah dan Pemeriksa berpuas hati dengan keputusan pemeriksaan dan ujian itu.

## JADUAL

(1) <i>No. Pendaftaran</i>	(2) <i>Perihal dan Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
KD PMD 84	Dandang Haba Buangan Gas Sintesis
KD PMT 63	Penyejuk Aliran Methanol
KD PMT 417	Penaut Baru
KD PMT 679	Penggosok Penyejuk Air
KD PMT 890	Bejana ACF Untuk Benfield
KD PMT 912	Penyejuk Antara Udara Kedua
KD PMT 913	Penyejuk Antara Udara Ketiga
KD PMT 914	Penyejuk Penggosok Karbon Dioksida
KD PMT 915	Penyejuk Air
KD PMT 916	Pemisah Sedutan Karbon Dioksida
KD PMT 2054	Pemisah Sedutan
KD PMT 2058	Penukar Kation
KD PMT 2059	Penukar Kation
KD PMT 2060	Pemanas Udara Pembujur Pengabusan
KD PMT 2231	Bejana Penyahgas
KD PMT 2327	Penyejuk
KD PMT 4068	Penukar Kation
KD PMT 4069	Penukar Kation
KD PMT 4093	Prapemanas Udara Penyejuk Pertama
KD PMT 4163	Penyejuk Antara Peringkat Pertama
KD PMT 4164	Pemeluwap Ammonia
PMD 7836	Dandang A
PMD 7837	Dandang B
PMD 7840	Dandang Haba Buangan RG
PMD 7841	Dandang Haba Buangan (Dandang Buangan Haba Gas Pemanas)
PMD 7843	Pembentuk Utama
PMD 8012	Penjimat A
PMD 8013	Penjimat B
PMT 100080	Penyejuk Pirau Pemampat Gas Asli

(1) <i>No. Pendaftaran</i>	(2) <i>Perihal Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
PMT 100081	Trim Pemanas Gas Asli
PMT 100082	Pemampat Gas Asli
PMT 100083	Pemampat Gas Asli
PMT 100084	4.4m <sup>2</sup> Pemeluwap Gland Stim
PMT 100085	Hydrogenator
PMT 100086	Penyerap Sulfur
PMT 100087	Penyerap Sulfur
PMT 100088	Gelendong Ketuk Keluar Gas Asli
PMT 100089	Bejana Pembuangan Raksa
PMT 100090	Gelendong Sedutan Pemampat Gas Asli
PMT 100091	Penyejuk Antara Udara Pertama
PMT 100094	Pemeluwap Permukaan Utama
PMT 100095	Pemampat Udara Proses
PMT 100096	Pemampat Udara Proses
PMT 100097	Pemeluwap Pelecut Udara
PMT 100098	Pemeluwap Gland Stim
PMT 100099	Pemisah Udara Pertama
PMT 100100	Pemisah Udara Kedua
PMT 100101	Pemisah Udara Ketiga
PMT 100102	Gelendong Cuci Alir Kilat
PMT 100103	Penyejuk Cuci Alir
PMT 100104	Pembentuk Kedua
PMT 100105	Prapemanas Air Penyalur Dandang No. 1
PMT 100106	Prapemanas Air Penyalur Dandang No. 1
PMT 100107	Prapemanas Air Penyalur Dandang No. 1
PMT 100108	Prapemanas Air Penyalur Dandang No. 1
PMT 100109	Prapemanas Air Penyalur Dandang
PMT 100110	Pemanas Gas Pembawa
PMT 100111	Penyejuk Gas Pembawa
PMT 100112	Penukar Karbon Monoksida Bersuhu Tinggi
PMT 100113	Penukar Karbon Monoksida Bersuhu Rendah

(1)	(2)
<i>No. Pendaftaran</i>	<i>Perihal Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
PMT 100114	Pemecah Pembawa Gas
PMT 100115	Penjana Semula Karbon Dioksida
PMT 100116	Penyerap Karbon Dioksida
PMT 100118	Pengulang Didih Benfield
PMT 100119	Pengulang Didih Benfield
PMT 100120	Penukar Udara Proses/Air Penyalur Demin
PMT 100121	Penukar Gas Asid/Air Penyalur Demin
PMT 100122	Pemeluwap Atas
PMT 100123	Pemeluwap Atas
PMT 100124	Penyejuk Larutan Kurang
PMT 100125	Penyejuk Akhir Gas
PMT 100126	Penapis Larutan
PMT 100127	Penapis Larutan Pencukup
PMT 100128	3.5m <sup>2</sup> Pemeluwap Gland
PMT 100129	Pemecah Gas Pengulang Didih
PMT 100130	Pemecah Gas Asid
PMT 100131	Gelendong Kilat
PMT 100132	Pemecah Gas Akhir
PMT 100134	Penyejuk Antara Gas Sintesis Kedua
PMT 100135	Penyejuk Selepas Gas Sintesis
PMT 100136	Pendingin Gas Pencukup
PMT 100137	Penyejuk Pirau Pembahagi
PMT 100138	Pemeluwap Permukaan Turbin Pemampat Gas Sintesis
PMT 100139	Penyejuk Minyak Pelincir
PMT 100140	Penyejuk Minyak Pelincir
PMT 100141	Pemeluwap
PMT 100142	7m <sup>2</sup> Pemeluwap Stim Gland
PMT 100143	Pemecah Penyejuk Antara Pertama Gas Sintesis
PMT 100144	Pemecah Penyejuk Antara Kedua Gas Sintesis
PMT 100145	Penyejuk Selepas Gas Sintesis

(1) <i>No. Pendaftaran</i>	(2) <i>Perihal Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
PMT 100146	Penukar Tekanan Tinggi Methanator
PMT 100147	Penukar Tekanan Tinggi Methanator
PMT 100148	Trim Pemanas Tekanan Tinggi Methanator
PMT 100149	Methanator Bertekanan Tinggi
PMT 100151	Prapemanas Air Penyalur Dandang Gas Sintesis
PMT 120653	Prapemanas Air Penyalur Dandang Gas Sintesis
PMT 120654	Penukar Panas
PMT 120655	Penyejuk Air
PMT 120656	Penukar Sejuk
PMT 120657	Pendingin No. 1
PMT 120658	Pendingin No. 2
PMT 120659	Pendingin Gas Pembersih
PMT 120661	Penukar Ammonia
PMT 120662	Pemecah Ammonia
PMT 120663	Bejana Penurun
PMT 120664	Pemecah Gas Pembersih
PMT 120665	Penyejuk Antara Peringkat Pertama Penyejuk Ammonia
PMT 120666	Pemeluwap Ammonia
PMT 120667	Pemeluwap Ammonia
PMT 120668	Pemeluwap Gas Lengai
PMT 120669	Pemanas Hasil Ammonia
PMT 120670	Penyejuk Minyak Pelincir
PMT 120671	Penyejuk Minyak Pelincir
PMT 120672	15m <sup>2</sup> Pemeluwap Gland
PMT 120673	Bejana Kilat
PMT 120674	Gelendong Ketuk Keluar Pertama Penyejuk Ammonia
PMT 120675	Gelendong Ketuk Keluar Kedua Penyejuk Ammonia
PMT 120676	Penumpuk Ammonia
PMT 120677	Pemecah Gas Lengai
PMT 120678	Penggosok Tekanan Tinggi
PMT 120679	Penggosok Tekanan Rendah

(1)	(2)
<i>No. Pendaftaran</i>	<i>Perihal Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
PMT 120680	Pelucut
PMT 120681	Pengulang Didih
PMT 120682	Pemeluwap
PMT 120685	Pemanas Salur
PMT 120686	Penstabil Sedutan
PMT 120687	8" Pembahagi Prisma
PMT 120688	8" Pembahagi Prisma
PMT 120689	8" Pembahagi Prisma
PMT 120690	8" Pembahagi Prisma
PMT 120691	8" Pembahagi Prisma
PMT 120692	8" Pembahagi Prisma
PMT 120693	8" Pembahagi Prisma
PMT 120694	8" Pembahagi Prisma
PMT 120695	8" Pembahagi Prisma
PMT 120696	Pelucut Pemeluwap Proses
PMT 120697	Penyalur Luwapan Proses
PMT 120698	Penyalur Luwapan Proses
PMT 120699	Penyalur Luwapan Proses
PMT 120700	Penyejuk Luwapan Pengolah
PMT 120701	Gelendong Ketuk Keluar Luwapan Proses
PMT 120702	Pembahagi Methanol Kedua
PMT 120703	Penukar Buangan/Penyalur Pertama
PMT 120704	Pemeluwap Methanol
PMT 120705	Penukar Buangan/Penyalur Kedua
PMT 120706	Pemanas Trim Reaktor Methanol Adiabatik
PMT 120707	Penyejuk Air
PMT 120708	Reaktor Methanol
PMT 120709	Reaktor Methanol Adiabatik
PMT 120710	Gelendong Stim Reaktor Methanol
PMT 120711	Pembahagi Methanol Pertama
PMT 120712	Bejana Kilat Methanol

(1) <i>No. Pendaftaran</i>	(2) <i>Perihal Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
PMT 120713	Menara Penstabil
PMT 120714	Menara Penghimpun
PMT 120715	Pengulang Didih Menara Penstabil
PMT 120716	Pengulang Didih Menara Penstabil
PMT 120717	Pemeluwap OH Menara Penstabil
PMT 120718	Pengulang Didih Menara Penghimpun
PMT 120719	Penyejuk Ulang Menara Penghimpun
PMT 120720	Pemeluwap OH Menara Penghimpun
PMT 120721	Penyejuk Hasil
PMT 120723	Penumpuk OH Menara Penstabil
PMT 120724	Penyejuk Karbon Dioksida Peringkat Pertama
PMT 120725	Penyejuk Karbon Dioksida Peringkat Kedua
PMT 120727	Penyejuk Pirau Pemampat Karbon Dioksida
PMT 120728	Pemeluwap Permukaan Turbin Pemampat Karbon Dioksida
PMT 120729	Penyejuk Minyak Pelincir
PMT 120730	Penyejuk Minyak Pelincir
PMT 120731	Pemeluwap & Pelecut Udara
PMT 120732	7m <sup>2</sup> Pemeluwap Gland Beserta Penyuntik
PMT 120734	Pembahagi Karbon Dioksida Peringkat Pertama
PMT 120735	Pembahagi Karbon Dioksida Peringkat Kedua
PMT 120736	Pembahagi Karbon Dioksida Peringkat Ketiga
PMT 120737	Penyejuk Minyak
PMT 120738	Penyejuk Minyak
PMT 120739	Pelucut
PMT 120740	Pemeluwap Carbamate
PMT 120741	Pemeluwap Carbamate
PMT 120742	Reaktor Urea
PMT 120743	Pembahagi Tekanan Tinggi
PMT 120744	Gelendong Luwapan Stim Pelucut
PMT 120745	Penyerap Tekanan Sederhana

(1)	(2)
<i>No. Pendaftaran</i>	<i>Perihal Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
PMT 120746	Penerima Ammonia
PMT 120747	Menara Pembersih Gas Lengai Tekanan Sederhana
PMT 120748	Pengurai Tekanan Sederhana (Bahagian Bawah)
PMT 120749	Menara Pembersih Gas Lengai Tekanan Rendah
PMT 120750	Pembahagi Tekanan Rendah
PMT 120751	Pembahagi Prapenghimpun
PMT 120752	Pembahagi Vakum
PMT 120753	Menara Pemulihan Stim
PMT 120754	Pemeluwap Tekanan Sederhana
PMT 120756	Pemeluwap Ammonia
PMT 120757	Penapis Ammonia Penyalur
PMT 120758	Penapis Ammonia Penyalur
PMT 120759	Pembahagi Pengurai Stim Luwapan Tekanan Sederhana
PMT 120760	Pemeluwap Tekanan Rendah
PMT 120762	Gelendong Pengurai Stim Luwapan Tekanan Rendah
PMT 120763	Penghimpun Vakum
PMT 120764	Pemeluwap Vakum Pertama
PMT 120765	Pemeluwap Vakum Kedua
PMT 120766	Pemeluwap Akhir
PMT 120767	Penyejuk Pemeluwap Stim
PMT 120768	Penapis Urea Kitar Semula
PMT 120769	Penapis Urea Kitar Semula
PMT 120770	Gelendong Luwapan Stim Berkepekatan
PMT 120771	Penggosok Alih Angin Untuk Unit Vakum
PMT 120772	Menara Melucut
PMT 120773	Prapemanas Menara Melucut
PMT 120774	Prapemanas Menara Melucut
PMT 120775	Prapemanas Hydrolyzer
PMT 120776	Prapemanas Hydrolyzer
PMT 120777	Penyejuk Luwapan Proses

(1) <i>No. Pendaftaran</i>	(2) <i>Perihal dan Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
PMT 120778	Penyejuk Luwapan Stim
PMT 120779	Hydrolyzer
PMT 120781	Pemanas Udara Pembendaliran Pembutir
PMT 120782	Pemanas Udara Pembendaliran Pembutir
PMT 120783	Pemanas Udara Pembendaliran Pembutir
PMT 120785	Pendingin Udara Penyejuk Akhir
PMT 120786	Prapemanas Udara Penyejuk Akhir
PMT 120787	Penghembus Udara Pengatoman
PMT 120788	Pemecah Ammonia
PMT 120789	Penyerap Formaldehyde
PMT 120790	Persejat Methanol
PMT 120791	Pemanas Gas Proses
PMT 120792	Dandang Haba Buangan
PMT 120793	Pemeluwap Alih Angin Minyak
PMT 120794	Pemeluwap Minyak
PMT 120795	Pemeluwap Stim
PMT 120796	Penyejuk Pengelilingan Penyerap
PMT 120797	Penyejuk Pengelilingan Hasil
PMT 120798	Penyejuk Gas Kitar Semula
PMT 120799	Pemanas Gas Belakang
PMT 120801	Penyejuk Hasil
PMT 120802	Pemanas Minyak Pemula
PMT 120803	Penukar Haba Penyejuk Minyak
PMT 120804	Reaktor Formaldehyde
PMT 120805	Reaktor Penunuan
PMT 120806	Pembahagi Gas Kitar Semula
PMT 120807	Pembahagi Minyak
PMT 120808	Penyejuk Luwapan Stim
PMT 120809	Penapis Karbon Teraktif
PMT 120810	Penapis Karbon Teraktif
PMT 120813	Penukar Anion

(1) <i>No. Pendaftaran</i>	(2) <i>Perihal Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
PMT 120814	Penukar Anion
PMT 120815	Penapis Karbon
PMT 120816	Penapis Karbon
PMT 120821	Penyejuk Air Kedap
PMT 120822	Penyejuk Minyak
PMT 120823	Penyejuk Minyak
PMT 120824	Penyejuk Minyak
PMT 120825	3.5 m <sup>2</sup> Pemeluwap Gland Stim
PMT 120826	3.5 m <sup>2</sup> Pemeluwap Gland Stim
PMT 120827	Penyahudaraan
PMT 120828	Bejana Air Penyalur Dandang Kembali
PMT 120830	Pemeluwap Permukaan Pam Turbin Air Penyejuk Pengeliling
PMT 120831	Pemeluwap Permukaan Pam Turbin Air Penyejuk Pengeliling
PMT 120832	Penapis Aliran Sampingan Untuk Unit A dan U
PMT 120833	Penapis Aliran Sampingan Untuk Unit A dan U
PMT 120834	Penyejuk Minyak
PMT 120835	Pemeluwap Pelecut Udara
PMT 120836	5m <sup>2</sup> Pemeluwap Gland
PMT 120837	Penyejuk Minyak
PMT 120838	Pemeluwap Pelecut Udara
PMT 120839	5m <sup>2</sup> Pemeluwap Gland
PMT 120840	Penapis Aliran Sampingan Untuk Urea Unit
PMT 120841	Menara Pengering Udara Instrument
PMT 120842	Menara Pengering Udara Instrument
PMT 120843	Penerima Udara
PMT 120844	Penerima Angin Instrument
PMT 120845	Penerima Udara Kecemasan
PMT 120846	Penjerap M.S
PMT 120847	Penjerap M.S
PMT 120848	Menara Perata Arus

(1)	(2)
<i>No. Pendaftaran</i>	<i>Perihal Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
PMT 120849	Penyejuk Minyak
PMT 120850	Pemanas Penjanaan Semula Elektrik
PMT 120851	Penukar Haba Utama
PMT 120852	Pemeluwap Pensejat
PMT 120853	Sub Penyejuk
PMT 120854	Penyejuk Trim Biasa
PMT 120855	Gelendong Udara Termampat
PMT 120856	Tangki Penyimpan Nitrogen Cecair
PMT 120857	Pemanas Ammonia
PMT 120858	Pengewap Ammonia
PMT 120859	Pemeluwap Pencecairan Semula
PMT 120860	Pembersih
PMT 120861	Penyejuk Minyak
PMT 120862	Pemecah Sedutan
PMT 120863	Penerima Ammonia
PMT 120864	Unit Pemampat Pencecairan Semula Ammonia
PMT 120865	Penyejuk Air Serombong Udara Gas
PMT 120866	Penyerap Karbon Dioksida
PMT 120867	Penjana Semula
PMT 120868	Penyejuk Air Serombong Udara Gas
PMT 120869	Penyejuk Air Basuh
PMT 120870	Penukar Haba Larutan
PMT 120872	Penebus Guna
PMT 120873	Pemeluwap Penjana Semula
PMT 120874	Penyejuk Larutan Kurang
PMT 120875	Penyejuk Luwapan Stim
PMT 120876	Penapis Karbon
PMT 120877	Gelendong Penjanaan Semula Ulang Masuk
PMT 120878	Gelendong Luwapan Stim
PMT 120879	18" Pot Ogino A
PMT 120884	18" Pot Ogino B

(1)	(2)
<i>No. Pendaftaran</i>	<i>Perihal Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
PMT 120885	Penerima Udara
PMT 121612	Penapis Perangkap Resin
PMT 121613	Penapis Resin
PMT 150269	Prapemanas Bahan Api Gas Asli
PMT 150270	Penapis Karbon Teraktif
PMT 150271	Penapis Adang
PMT 150273	Penjana Pengulang Didih
PMT 150529	Turus Pengering Udara Alatan
PMT 150530	Turus Pengering Udara Alatan
PMT 150570	Pelurut Ammonia
PMT 150571	Penuras Karbon Teraktif
PMT 150572	Prapemanas
PMT 150573	Prapemanas
PMT 150574	Prapemanas

Dibuat 3 Julai 2012

[KSM/PUU/T/01/02/03 ]ld.17; PN(PU<sup>2</sup>)235/XXXIII]

DATUK SERI DR. SUBRAMANIAM A/L K.V. SATHASIVAM  
*Menteri Sumber Manusia*

FACTORIES AND MACHINERY ACT 1967

FACTORIES AND MACHINERY (EXEMPTION TO PETRONAS CHEMICALS FERTILISER  
KEDAH SDN. BHD., GURUN, KEDAH) ORDER 2012

IN exercise of the powers conferred by subsection 55(3) of the Factories and Machinery Act 1967 [*Act 139*], the Minister makes the following order:

**Citation**

1. This order may be cited as the **Factories and Machinery (Exemption to Petronas Chemicals Fertiliser Kedah Sdn. Bhd., Gurun, Kedah) Order 2012**.

**Exemption**

2. All steam boilers and unfired pressure vessels registered with the Chief Inspector, with the registration numbers and descriptions as specified in columns (1) and (2) of the Schedule, in the name of Petronas Chemicals Fertiliser Kedah Sdn. Bhd., Gurun, Kedah which have been issued with certificates of fitness, are exempted from the preparation required under paragraphs 17(*a*) and 17(*b*) of the Factories and Machinery (Notification, Certificate of Fitness and Inspection) Regulations 1970 [*P.U. (A) 43/1970*] for subsequent regular inspection after the expiry of such certificates of fitness on 17 July 2012.

**Condition of exemption**

3. The exemption under paragraph 2 is subject to the condition that all of the steam boilers and unfired pressure vessels as specified in the Schedule undergo an external inspection and non-destructive tests and the Inspector is satisfied with the results of such inspection and tests.

## SCHEDULE

(1) <i>Registration No.</i>	(2) <i>Description of Steam Boilers and Unfired Pressure Vessels</i>
KD PMD 84	Synthesis Gas Waste Heat Boiler
KD PMT 63	Methanol Offstream Cooler
KD PMT 417	New Coalescer
KD PMT 679	Scrubber Water Cooler
KD PMT 890	ACF Vessel For Benfield
KD PMT 912	Air Second Intercooler
KD PMT 913	Air Third Intercooler
KD PMT 914	Carbon Dioxide Chiller Scrubber
KD PMT 915	Water Chiller
KD PMT 916	Carbon Dioxide Suction Separator
KD PMT 2054	Suction Separator
KD PMT 2058	Cation Exchanger
KD PMT 2059	Cation Exchanger
KD PMT 2060	Granulator Atomization Air Heater
KD PMT 2231	Degasser Vessel
KD PMT 2327	Cooler
KD PMT 4068	Cation Exchanger
KD PMT 4069	Cation Exchanger
KD PMT 4093	First Cooler Air Preheater
KD PMT 4163	First Stage Intercooler
KD PMT 4164	Ammonia Condenser
PMD 7836	Boiler A
PMD 7837	Boiler B
PMD 7840	RG Waste Heat Boiler
PMD 7841	Waste Heat Boiler (Carrier Gas Waste Heat Boiler)
PMD 7843	Primary Reformer
PMD 8012	Economizer A
PMD 8013	Economizer B
PMT 100080	Natural Gas Compressor Bypass Cooler

(1) <i>Registration No.</i>	(2) <i>Description of Steam Boilers and Unfired Pressure Vessels</i>
PMT 100081	Natural Gas Trim Heater
PMT 100082	Natural Gas Compressor
PMT 100083	Natural Gas Compressor
PMT 100084	4.4m <sup>2</sup> Gland Steam Condenser
PMT 100085	Hydrogenator
PMT 100086	Sulphur Absorber
PMT 100087	Sulphur Absorber
PMT 100088	Natural Gas Knock Out Drum
PMT 100089	Mercury Removal Vessel
PMT 100090	Natural Gas Compressor Suction Drum
PMT 100091	Air First Intercooler
PMT 100094	Main Surface Condenser
PMT 100095	Process Air Compressor
PMT 100096	Process Air Compressor
PMT 100097	Air Ejector Condenser
PMT 100098	Gland Steam Condenser
PMT 100099	Air First Separator
PMT 100100	Air Second Separator
PMT 100101	Air Third Separator
PMT 100102	Blowdown Flash Drum
PMT 100103	Blowdown Cooler
PMT 100104	Secondary Reformer
PMT 100105	Boiler Feed Water Preheater No. 1
PMT 100106	Boiler Feed Water Preheater No. 1
PMT 100107	Boiler Feed Water Preheater No. 1
PMT 100108	Boiler Feed Water Preheater No. 1
PMT 100109	Boiler Feed Water Preheater No. 2
PMT 100110	Carrier Gas Heater
PMT 100111	Carrier Gas Cooler
PMT 100112	High Temperature Carbon Monoxide Converter
PMT 100113	Low Temperature Carbon Monoxide Converter

(1) <i>Registration No.</i>	(2) <i>Description of Steam Boilers and Unfired Pressure Vessels</i>
PMT 100114	Carrier Gas Separator
PMT 100115	Carbon Dioxide Regenerator
PMT 100116	Carbon Dioxide Absorber
PMT 100118	Benfield Reboiler
PMT 100119	Benfield Reboiler
PMT 100120	Process Gas/Demin Feed Water Exchanger
PMT 100121	Acid Gas/Demin Feed Water Exchanger
PMT 100122	Overhead Condenser
PMT 100123	Overhead Condenser
PMT 100124	Lean Solution Cooler
PMT 100125	Final Gas Cooler
PMT 100126	Solution Filter
PMT 100127	Solution Make-Up Filter
PMT 100128	3.5m <sup>2</sup> Gland Condenser
PMT 100129	Gas Reboiler Separator
PMT 100130	Acid Gas Separator
PMT 100131	Flash Drum
PMT 100132	Final Gas Separator
PMT 100134	Synthesis Gas Second Intercooler
PMT 100135	Synthesis Gas After Cooler
PMT 100136	Make Up Gas Chiller
PMT 100137	Circulator By Pass Cooler
PMT 100138	Synthesis Gas Compressor Turbine Surface Condenser
PMT 100139	Lube Oil Cooler
PMT 100140	Lube Oil Cooler
PMT 100141	Condenser
PMT 100142	7m <sup>2</sup> Gland Steam Condenser
PMT 100143	Synthesis Gas First Intercooler Separator
PMT 100144	Synthesis Gas Second Intercooler Separator
PMT 100145	Synthesis Gas After Cooler

(1) <i>Registration No.</i>	(2) <i>Description of Steam Boilers and Unfired Pressure Vessels</i>
PMT 100146	High Pressure Methanator Exchanger
PMT 100147	High Pressure Methanator Exchanger
PMT 100148	High Pressure Methanator Trim Heater
PMT 100149	High Pressure Methanator
PMT 100151	Synthesis Gas Boiler Feed Water Preheater
PMT 120653	Synthesis Gas Boiler Feed Water Preheater
PMT 120654	Hot Exchanger
PMT 120655	Water Cooler
PMT 120656	Cold Exchanger
PMT 120657	No. 1 Chiller
PMT 120658	No. 2 Chiller
PMT 120659	Purge Gas Chiller
PMT 120661	Ammonia Converter
PMT 120662	Ammonia Separator
PMT 120663	Let Down Vessel
PMT 120664	Purge Gas Separator
PMT 120665	Ammonia Refrigerant First Stage Intercooler
PMT 120666	Ammonia Condenser
PMT 120667	Ammonia Condenser
PMT 120668	Inert Gas Condenser
PMT 120669	Ammonia Product Heater
PMT 120670	Lube Oil Cooler
PMT 120671	Lube Oil Cooler
PMT 120672	15m <sup>2</sup> Gland Condenser
PMT 120673	Flash Vessel
PMT 120674	Ammonia Refrigerant First Knock Out Drum
PMT 120675	Ammonia Refrigerant Second Knock Out Drum
PMT 120676	Ammonia Accumulator
PMT 120677	Inert Gas Separator
PMT 120678	High Pressure Scrubber
PMT 120679	Low Pressure Scrubber

(1) <i>Registration No.</i>	(2) <i>Description of Steam Boilers and Unfired Pressure Vessels</i>
PMT 120680	Stripper
PMT 120681	Reboiler
PMT 120682	Condenser
PMT 120685	Stripper Feed Exchanger
PMT 120686	Suction Stabilizer
PMT 120687	8" Prism Separator
PMT 120688	8" Prism Separator
PMT 120689	8" Prism Separator
PMT 120690	8" Prism Separator
PMT 120691	8" Prism Separator
PMT 120692	8" Prism Separator
PMT 120693	8" Prism Separator
PMT 120694	8" Prism Separator
PMT 120695	8" Prism Separator
PMT 120696	Process Condenser Stripper
PMT 120697	Process Condensate Feed
PMT 120698	Process Condensate Feed
PMT 120699	Process Condensate Feed
PMT 120700	Treated Condensate Cooler
PMT 120701	Process Condensate Knock Out Drum
PMT 120702	Second Methanol Separator
PMT 120703	First Feed/Effluent Exchanger
PMT 120704	Methanol Condenser
PMT 120705	Second Feed/Effluent Exchanger
PMT 120706	Adiabatic Methanol Reactor Trim Heater
PMT 120707	Water Cooler
PMT 120708	Methanol Reactor
PMT 120709	Adiabatic Methanol Reactor
PMT 120710	Methanol Reactor Steam Drum
PMT 120711	First Methanol Separator
PMT 120712	Methanol Flash Vessel

(1)	(2)
<i>Registration No.</i>	<i>Description of Steam Boilers and Unfired Pressure Vessels</i>
PMT 120713	Stabilizer Column
PMT 120714	Concentration Column
PMT 120715	Stabilizer Column Reboiler
PMT 120716	Stabilizer Column Reboiler
PMT 120717	Stabilizer Column OH Condenser
PMT 120718	Concentration Column Reboiler
PMT 120719	Concentration Column Return Cooler
PMT 120720	Concentration Column OH Condenser
PMT 120721	Product Cooler
PMT 120723	Stabilizer Column OH Accumulator
PMT 120724	First Stage Carbon Dioxide Cooler
PMT 120725	Second Stage Carbon Dioxide Cooler
PMT 120727	Carbon Dioxide Compressor By-Pass Cooler
PMT 120728	Carbon Dioxide Compressor Turbine Surface Condenser
PMT 120729	Lube Oil Cooler
PMT 120730	Lube Oil Cooler
PMT 120731	Air Ejector & Condenser
PMT 120732	7m <sup>2</sup> Gland Condenser Injector
PMT 120734	First Stage Carbon Dioxide Separator
PMT 120735	Second Stage Carbon Dioxide Separator
PMT 120736	Third Stage Carbon Dioxide Separator
PMT 120737	Oil Cooler
PMT 120738	Oil Cooler
PMT 120739	Stripper
PMT 120740	Carbamate Condenser
PMT 120741	Carbamate Condenser
PMT 120742	Urea Reactor
PMT 120743	High Pressure Separator
PMT 120744	Stripper Steam Condensate Drum
PMT 120745	Middle Pressure Absorber

(1) <i>Registration No.</i>	(2) <i>Description of Steam Boilers and Unfired Pressure Vessels</i>
PMT 120746	Ammonia Receiver
PMT 120747	Middle Pressure Inerts Washing Tower
PMT 120748	Middle Pressure Decomposer (Lower Part)
PMT 120749	Low Pressure Inerts Washing Tower
PMT 120750	Low Pressure Separator
PMT 120751	Preconcentrator Separator
PMT 120752	Vacuum Separator
PMT 120753	Steam Recovering Tower
PMT 120754	Middle Pressure Condenser
PMT 120756	Ammonia Condenser
PMT 120757	Ammonia Feed Filter
PMT 120758	Ammonia Feed Filter
PMT 120759	Middle Pressure Decomposer Steam Condensate Separator
PMT 120760	Low Pressure Condenser
PMT 120762	Low Pressure Decomposer Steam Condensate Drum
PMT 120763	Vacuum Concentrator
PMT 120764	First Vacuum Condenser
PMT 120765	Second Vacuum Condenser
PMT 120766	Final Condenser
PMT 120767	Steam Condensate Cooler
PMT 120768	Urea Recycle Filter
PMT 120769	Urea Recycle Filter
PMT 120770	Concentration Steam Condensate Drum
PMT 120771	Vent Scrubber For Vacuum Unit
PMT 120772	Stripping Tower
PMT 120773	Stripping Tower Preheater
PMT 120774	Stripping Tower Preheater
PMT 120775	Hydrolyzer Preheater
PMT 120776	Hydrolyzer Preheater
PMT 120777	Process Condensate Cooler

(1) <i>Registration No.</i>	(2) <i>Description of Steam Boilers and Unfired Pressure Vessels</i>
PMT 120778	Steam Condensate Cooler
PMT 120779	Hydrolyzer
PMT 120781	Granulator Fluidization Air Heater
PMT 120782	Granulator Fluidization Air Heater
PMT 120783	Granulator Fluidization Air Heater
PMT 120785	Final Cooler Air Chiller
PMT 120786	Final Cooler Air Preheater
PMT 120787	Atomization Air Blower
PMT 120788	Ammonia Separator
PMT 120789	Formaldehyde Absorber
PMT 120790	Methanol Evaporator
PMT 120791	Process Gas Heater
PMT 120792	Waste Heat Boiler
PMT 120793	Oil Vent Condenser
PMT 120794	Oil Condenser
PMT 120795	Steam Condenser
PMT 120796	Absorber Circulation Cooler
PMT 120797	Product Circulation Cooler
PMT 120798	Recycle Gas Cooler
PMT 120799	Tail Gas Heater
PMT 120801	Product Cooler
PMT 120802	Oil Start-Up Heater
PMT 120803	Oil Cooler Heat Exchanger
PMT 120804	Formaldehyde Reactor
PMT 120805	Incineration Reactor
PMT 120806	Recycle Gas Separator
PMT 120807	Oil Separator
PMT 120808	Steam Condensate Cooler
PMT 120809	Activated Carbon Filter
PMT 120810	Activated Carbon Filter
PMT 120813	Anion Exchanger

(1) <i>Registration No.</i>	(2) <i>Description of Steam Boilers and Unfired Pressure Vessels</i>
PMT 120814	Anion Exchanger
PMT 120815	Carbon Filter
PMT 120816	Carbon Filter
PMT 120821	Seal Water Cooler
PMT 120822	Oil Cooler
PMT 120823	Oil Cooler
PMT 120824	Oil Cooler
PMT 120825	3.5m <sup>2</sup> Gland Steam Condenser
PMT 120826	3.5m <sup>2</sup> Gland Steam Condenser
PMT 120827	Dearator
PMT 120828	Boiler Feed Water Return Vessel
PMT 120830	Cooling Water Circulation Pump Turbine Surface Condenser
PMT 120831	Cooling Water Circulation Pump Turbine Surface Condenser
PMT 120832	Side Stream Filter For A and U Unit
PMT 120833	Side Stream Filter For A and U Unit
PMT 120834	Oil Cooler
PMT 120835	Air Injector Condenser
PMT 120836	5m <sup>2</sup> Gland Condenser
PMT 120837	Oil Cooler
PMT 120838	Air Injector Condenser
PMT 120839	5m <sup>2</sup> Gland Condenser
PMT 120840	Side Stream Filter For Area Unit
PMT 120841	Instrument Air Dryer Column
PMT 120842	Instrument Air Dryer Column
PMT 120843	Air Receiver
PMT 120844	Instrument Air Receiver
PMT 120845	Emergency Air Recover
PMT 120846	M.S Absorber
PMT 120847	M.S Absorber
PMT 120848	Rectifier Column
PMT 120849	Air Cooler

(1) <i>Registration No.</i>	(2) <i>Description of Steam Boilers and Unfired Pressure Vessels</i>
PMT 120850	Regeneration Electric Heater
PMT 120851	Main Heat Exchanger
PMT 120852	Evaporator Condenser
PMT 120853	Sub Cooler
PMT 120854	Common Trim Cooler
PMT 120855	Compressed Air Drum
PMT 120856	Liquid Nitrogen Storage Tank
PMT 120857	Ammonia Heater
PMT 120858	Ammonia Vaporizer
PMT 120859	Reliquefaction Condenser
PMT 120860	Purger
PMT 120861	Oil Cooler
PMT 120862	Suction Separator
PMT 120863	Ammonia Receiver
PMT 120864	Ammonia Reliquefaction Compressor Unit
PMT 120865	Flue Gas Water Cooler
PMT 120866	Carbon Dioxide Absorber
PMT 120867	Regenerator
PMT 120868	Flue Gas Cooling Water
PMT 120869	Wash Water Cooler
PMT 120870	Solution Heat Exchanger
PMT 120872	Reclaimer
PMT 120873	Regenerator Condenser
PMT 120874	Lean Solution Cooler
PMT 120875	Steam Condensate Cooler
PMT 120876	Carbon Filter
PMT 120877	Regeneration Reflux Drum
PMT 120878	Steam Condensate Drum
PMT 120879	18" Ogino Pot A
PMT 120884	18" Ogino Pot B
PMT 120885	Air Receiver

(1) <i>Registration No.</i>	(2) <i>Description of Steam Boilers and Unfired Pressure Vessels</i>
PMT 121612	Resin Trap Filter
PMT 121613	Resin Filter
PMT 150269	Natural Gas Fuel Preheater
PMT 150270	Activated Carbon Filter
PMT 150271	Guard Filter
PMT 150273	Regenerator Reboiler
PMT 150529	Desiccant Air Dryer
PMT 150530	Desiccant Air Dryer
PMT 150570	Ammonia Stripper
PMT 150571	Activated Carbon Filter
PMT 150572	Preheater
PMT 150573	Preheater
PMT 150574	Preheater

Made 3 July 2012

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DATUK SERI DR. SUBRAMANIAM A/L K.V. SATHASIVAM  
*Minister of Human Resources*