

**KEMENTERIAN TENAGA, SAINS, TEKNOLOGI, ALAM SEKITAR DAN PERUBAHAN IKLIM**

Bil	Berita	Media	Capaian Berita Penuh
<b>1 APRIL 2019 (ISNIN)</b>			
1.	<a href="#"><u>Bahana pencemaran alam</u></a>	Sinar Harian	Klik pada tajuk berita
2.	<a href="#"><u>Having the right degrees and skills to face Industry 4.0</u></a>	Free Malaysia Today	Klik pada tajuk berita
3.	<b><u>Lynas: Our Operations are Safe</u></b>	The Sun Daily	Rujuk Lampiran 1
4.	<b><u>Pelajar dirawat di wad dibayar insurans RM25 sehari</u></b>	Kosmo	Rujuk Lampiran 2
5.	<b><u>Jawatankuasa pengurusan sisa toksid akan diwujudkan</u></b>	Kosmo	Rujuk Lampiran 3
6.	<b><u>Many people still wearing face masks</u></b>	The Star	Rujuk Lampiran 4
7.	<b><u>DoE completes final draft on forming panel</u></b>	The Star	Rujuk Lampiran 5
8.	<b><u>Pelajar trauma, terkesan insiden diberi kaunseling</u></b>	Berita Harian	Rujuk Lampiran 6
9.	<b><u>JAS mahu tubuh jawatankuasa kebangsaan urus sisa toksik</u></b>	Berita Harian	Rujuk Lampiran 7
10.	<b><u>Kilang buang sisa ke sungai ketika hujan</u></b>	Sinar Harian	Rujuk Lampiran 8
11.	<b><u>Berterusan pantau kualiti udara</u></b>	Harian Metro	Rujuk Lampiran 9



31 MAC 2019 (AHAD)			
12.	<a href="#"><u>Lynas a threat to health of Gebeng folks: Fuziah</u></a>	The Sun Daily	Klik pada tajuk berita
13.	<a href="#"><u>No suggestion that Lynas caused groundwater contamination, says general manager</u></a>	The Malaysian Today	Klik pada tajuk berita
14.	<a href="#"><u>JAS tubuh jawatankuasa pengurusan toksik</u></a>	Utusan Malaysia	Klik pada tajuk berita
15.	<a href="#"><u>Tiada petunjuk Lynas timbulkan masalah</u></a>	Sinar Harian	Klik pada tajuk berita
16.	<a href="#"><u>Jangan dengar pandangan Lynas sahaja</u></a>	Sinar Harian	Klik pada tajuk berita
17.	<a href="#"><u>Fuziah kecewa ramai dalam k'jaan termakan cerita Lynas</u></a>	Malaysiakini	Klik pada tajuk berita
18.	<a href="#"><u>No suggestion that Lynas contributes to increased heavy metals in underground water, says review committee</u></a>	Malay mail	Klik pada tajuk berita
19.	<a href="#"><u>'No suggestion Lynas contributes to heavy metals increase in underground water'</u></a>	Malaysiakini	Klik pada tajuk berita
20.	<a href="#"><u>Fuziah: Unfortunate that many in gov't convinced by Lynas' narrative</u></a>	Malaysiakini	Klik pada tajuk berita
21.	<a href="#"><u>Lynas: Scientific evidence says Gebeng operations is safe</u></a>	The Sun Daily	Klik pada tajuk berita
22.	<a href="#"><u>Lynas silent on long-term effects of radioactive waste, says Fuziah</u></a>	The Star	Klik pada tajuk berita
23.	<a href="#"><u>Lynas refutes Fuziah's claims, says it complies with relevant regulations</u></a>	New SundayTimes	Klik pada tajuk berita



24.	<a href="#">Kilang buang sisa toksik ke sungai</a>	Sinar Harian	Klik pada tajuk berita
25.	<a href="#">Kenal pasti kilang buang toksik di Sungai Selangkah</a>	Utusan Malaysia	Klik pada tajuk berita
26.	<a href="#">JAS terus pantau kualiti udara Pasir Gudang</a>	Utusan Malaysia	Klik pada tajuk berita
27.	<a href="#">Kualiti udara Pasir Gudang pulih</a>	Harian Metro	Klik pada tajuk berita
28.	<a href="#">Curi kabel punca 300 penduduk terjejas</a>	Harian Metro	Klik pada tajuk berita
29.	<u>Kualiti udara sekitar Sungai Kim Kim kini stabil – JAS</u>	Mingguan Malaysia	Rujuk Lampiran 10
30.	<u>Strict S.O.P for Bauxite Export</u>	New Sunday Times	Rujuk Lampiran 11
<b>30 MAC 2019 (SABTU)</b>			
31.	<a href="#">Kualiti udara di kawasan terjejas akibat pencemaran toksik stabil</a>	Utusan Malaysia	Klik pada tajuk berita
32.	<a href="#">Selangor diramal hujan sehingga Jumaat</a>	Sinar Harian	Klik pada tajuk berita

**TEMPATAN**

Bil	Berita	Media	Capaian Berita Penuh
<b>1 APRIL 2019 (ISNIN)</b>			
33.	<a href="#">MDYP tak kompromi isu pencemaran</a>	Sinar Harian	Klik pada tajuk berita
34.	<u>Pelajar diberi kaunseling</u>	Sinar Harian	Rujuk Lampiran 12
35.	<u>Moratorium tamat, aktiviti bauksit belum</u>	Utusan	Rujuk



	<b><u>boleh diteruskan</u></b>	Malaysia	Lampiran 13
36.	<b><u>Lynas didakwa jejas penduduk Gebeng</u></b>	Kosmo	Rujuk Lampiran 14
37.	<b><u>535kg sampah dikutip dari Sungai Klang</u></b>	Sinar Harian	Rujuk Lampiran 15
38.	<b><u>The many applications of artificial intelligence</u></b>	The Star	Rujuk Lampiran 16
39.	<b><u>Mangsa gas toksik masih trauma</u></b>	Sinar Harian	Rujuk Lampiran 17
40.	<b><u>Fuziah: Lynas project a threat to villagers' health</u></b>	The Star	Rujuk Lampiran 18
41.	<b><u>Stringent SOPs proposed: New draft rules for bauxite mining emphasise stricter enforcement</u></b>	The Star	Rujuk Lampiran 19
42.	<b><u>Bauxite miners urged to wait a bit longer to ensure smooth operations</u></b>	The Star	Rujuk Lampiran 20
43.	<b><u>Activist: Draft a step in the right direction</u></b>	The Star	Rujuk Lampiran 21
44.	<b><u>Lynas jejas penduduk Gebeng – Fuziah</u></b>	Utusan Malaysia	Rujuk Lampiran 22
45.	<b><u>Kehadiran 90 peratus pelajar di sekolah Pasir Gudang</u></b>	Utusan Malaysia	Rujuk Lampiran 23
<b>31 MAC 2019 (AHAD)</b>			
46.	<b><u><a href="#">Lynas jejas penduduk kampung di Gebeng</a></u></b>	Utusan Malaysia	Klik pada tajuk berita
47.	<b><u><a href="#">Lynas a threat to health of Gebeng folks – Fuziah</a></u></b>	New Straits Times	Klik pada tajuk berita
48.	<b><u><a href="#">Fuziah hits out at Lynas, says rare earths plant waste could affect nearby folk</a></u></b>	The Malaysian Insight	Klik pada tajuk berita



49.	<a href="#"><u>Kuantan MP: Lynas a threat to health of Gebeng folks</u></a>	Malaymail	Klik pada tajuk berita
50.	<a href="#"><u>Lynas quotes ministry report to defend waste operations</u></a>	Free Malaysia Today	Klik pada tajuk berita
51.	<a href="#"><u>Pencemaran: Penduduk alami bau busuk dari sebuah kilang plastik kitar semula</u></a>	Utusan Malaysia	Klik pada tajuk berita
52.	<a href="#"><u>Caj baharu beg plastik akan dimuktamad</u></a>	Utusan Malaysia	Klik pada tajuk berita dan Rujuk lampiran 24
53.	<a href="#"><u>LSS TNB mercu tanda Bukit Selambau</u></a>	Sinar Harian	Klik pada tajuk berita
54.	<a href="#"><u>Cambodia's environment, Singapore's problem</u></a>	Malaymail	Klik pada tajuk berita
55.	<a href="#"><u>Green energy options</u></a>	The Star	Klik pada tajuk berita dan Rujuk lampiran 25
56.	<a href="#"><u>Emphasis on cleanliness, safety and environment</u></a>	New Sunday Times	Rujuk Lampiran 26
57.	<a href="#"><u>Tak laksana cadangan dalam masa terdekat</u></a>	Berita Harian	Rujuk Lampiran 27
58.	<a href="#"><u>SOP eksport bauksit ketat elak pencemaran</u></a>	Berita Harian	Rujuk Lampiran 28
59.	<a href="#"><u>Two-storey rubbish pile causing a stink</u></a>	The Star	Rujuk Lampiran 29
60.	<a href="#"><u>30 garbage truck drivers caught red-handed dumping waste</u></a>	The Star	Rujuk Lampiran 30
61.	<a href="#"><u>Bringing the Arts and Sciences together</u></a>	The Star	Rujuk Lampiran 31



30 MAC 2019 (SABTU)			
62.	<a href="#"><u>Kilang Lynas diteruskan untuk tarik pelabur asing - Mohd. Redzuan</u></a>	Utusan Malaysia	Klik pada tajuk berita
63.	<a href="#"><u>Pencemaran toksik:355 pelajar mohon takaful</u></a>	Utusan Malaysia	Klik pada tajuk berita
64.	<a href="#"><u>Use blockchain to keep track of hazardous materials</u></a>	New Straits Times	Klik pada tajuk berita
65.	<a href="#"><u>Your #OOTD posts may be harming the environment, says Maya Karin</u></a>	Malay mail	Klik pada tajuk berita
66.	<b><u>Varsity promotes STEM through challenge</u></b>	The Star	Rujuk Lampiran 32
67.	<b><u>Kedah govt on the hunt for poachers in Ulu Muda</u></b>	The Star	Rujuk Lampiran 33
68.	<b><u>TNB employees pay tribute to Azman</u></b>	New Straits Times	Rujuk Lampiran 34

## ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
69.	<b><u>Dunia bergelap sejam sokong Earth Hour</u></b>	Berita Harian	Rujuk Lampiran 35
70.	<b><u>Smog chokes coal-dependent Poland</u></b>	The Star	Rujuk Lampiran 36
31 MAC 2019 (AHAD)			
71.	<b><u>'Declare emergency now'</u></b>	The Star	Rujuk Lampiran 37
30 MAC 2019 (SABTU)			



72.	<b><u>Worsening air pollution cuts lifespan in Indonesia</u></b>	The Star	Rujuk Lampiran 38
73.	<b><u>Gempa bumi gegar sentral Greece</u></b>	Utusan Malaysia	Klik pada tajuk berita
74.	<b><u>Australia Suffers From Garbage Crisis</u></b>	The Science Times	Klik pada tajuk berita



**LAMPIRAN 1**  
**THE SUN DAILY (NEWS WITHOUT BORDERS): MUKA SURAT 3**  
**TARIKH: 1 APRIL 2019 (ISNIN)**

**LYNAS: OUR OPERATIONS  
ARE SAFE**

PETALING JAYA: There is scientific evidence that Lynas Malaysia's operations in Gebeng, Kuantan, is safe. In a statement yesterday, the company said a scientific review committee appointed by the Ministry of Energy, Science, Technology, Environment and Climate Change showed its operations posed only a low risk and were in compliance with relevant regulations. It pointed out the ministry's review also understood that extracting rare earth could not be compared with a nuclear plant. The company was responding to a statement by Kuantan MP Fuziah Salleh that its operations posed a health risk. The statement, signed by its managing director and vice-president for Malaysia Datuk Mashal Ahmad and the general manager in charge of radiation safety, regulations and compliance Prof Ismail Bahari, said the company's operations only yielded very low levels of radiation, which was not unique in Malaysia. "The oil and gas industry, tin mining and amang processing also produce radioactive residues. These industries have been in operation for many years." Lynas said it had contributed to the economy by providing jobs for more than 1,000 people, 97% of whom are locals.





LAMPIRAN 2  
KOSMO (NEGARA): MUKA SURAT 14  
TARIKH: 1 APRIL 2019 (ISNIN)

Pelajar dirawat di wad dibayar insurans RM25 sehari

PASIR GUDANG - Seramai 355 pelajar yang terjejas akibat pencemaran toksik di Sungai Kim Kim di sini baru-baru ini sudah menghantar permohonan mendapatkan Takaful Pelajar Sekolah Malaysia.

Pengerusi Jawatankuasa Hal Ehwal Agama Islam dan Pendidikan negeri, Aminolhuda Hassan berkata, jumlah itu membabitkan pelajar yang dirawat di wad hospital dengan setiap pelajar akan dibayar RM25 sehari sepanjang mereka dirawat.

"Kita jangkakan lebih ramai pelajar akan menghantar borang permohonan takaful berikutan sekolah baru dibuka hari ini (semalam).

"Setiap pelajar akan dibayar duit takaful sebanyak RM25



KERATAN Kosmo! 14 Mac 2019.

sehari mengikut jumlah hari mereka dirawat," katanya pada sidang akhbar selepas melakukan lawatan ke Sekolah Menengah Kebangsaan (SMK) Pasir Gudang 2 di sini semalam.

Dalam perkembangan lain, Aminolhuda berkata, peratusan kehadiran pelajar di 111 buah sekolah daerah ini yang ditutup akibat pencemaran udara kerana pemuangan sisa toksik ke dalam Sungai Kim Kim sejak 7 Mac lalu memuaskan iaitu mencapai tahap 90 peratus.



AMINOLHUDA bersama pelajar di SMK Pasir Gudang 2 selepas sekolah dibuka semula semalam setelah ditutup berikutan kejadian limpahan bahan kimia di Sungai Kim Kim, Pasir Gudang, Johor.

"Saya mendapat laporan awal bahawa kehadiran pelajar di 111 sekolah di sini yang sebelum ini ditutup akibat pencemaran

mencapai 90 peratus.

"Laporan kualiti udara daripada Jabatan Alam Sekitar juga menunjukkan tahap udara

dalam keadaan baik dan bebas pencemaran," katanya.

Tambah Aminolhuda, kecekapan dan kemahiran guru-guru untuk menghabiskan sukatan pelajaran diyakini mampu membantu pelajar-pelajar yang tidak dapat hadir ke sekolah sebelum ini.

Pada 7 Mac lalu, dua sekolah iaitu Sekolah Kebangsaan Taman Pasir Putih dan SMK Pasir Putih adalah dua sekolah yang mula-mula terjejas dan ditutup ekoran pemuangan sisa kimia secara haram dikesan di Sungai Kim Kim.

Selepas gelombang kedua pencemaran Sungai Kim Kim pada 9 Mac lalu, Kementerian Pendidikan mengarahkan 111 sekolah di Pasir Gudang ditutup sepenuhnya pada 13 Mac lalu.

LAMPIRAN 3  
KOSMO (NEGARA): MUKA SURAT 6  
TARIKH: 1 APRIL 2019 (ISNIN)

## Jawatankuasa pengurusan sisa toksid akan diwujudkan

**JOHOR BAHRU** - Jawatankuasa Pengurusan Sisa Toksik Buangan Berjadual Kebangsaan akan diwujudkan dalam usaha kerajaan merangka satu prosedur operasi standard (SOP) untuk menangani bencana pencemaran kimia.

Ketua Pengarah Jabatan Alam Sekitar (JAS), Datuk Dr. Ahmad Kamarulnajib Che Ibrahim berkata, setakat ini, penubuhan jawatankuasa yang akan bertanggungjawab dalam merangka SOP berkenaan itu kini berada dalam peringkat draf sebelum dibawa kepada Kementerian Tenaga, Teknologi, Sains, Alam Sekitar dan Perubahan Iklim (MESTECC) untuk dimuktamadkan.

"Antara fungsinya adalah untuk buat keputusan apa jua isu berkaitan dengan pengurusan sisa toksik pada masa akan datang. Itu yang paling utama, supaya kita ada satu platform paling tertinggi yang boleh membuat keputusan dan mengambil tindakan selanjutnya," katanya.

Beliau berkata demikian kepada pemberita ketika diminta mengulas mengenai cadangan mewujudkan SOP berkenaan semasa ditemui selepas melawat Sekolah Menengah Kebangsaan Pasir Putih, di sini semalam.

Turut hadir Pengarah JAS Johor, Datuk Dr. Mohammad Ezanni Mat Salleh.

Dalam pada itu, menurut Ahmad Kamarulnajib lagi, buat masa ini pihaknya hanya ditugaskan untuk menyiapkan draf penubuhan jawatankuasa itu dan ia akan menyerahkannya kepada MESTECC untuk membuat keputusan selanjutnya.

Sementara itu, beliau berkata, pemantauan kualiti udara yang dilakukan pihaknya di 20 buah sekolah yang berada dalam jarak 15 kilometer dari Sungai Kim Kim di Pasir Gudang adalah baik.

"JAS akan terus melaksanakan pemantauan kualiti udara secara berterusan di kawasan terjejas bagi memastikan kualiti udara adalah baik bagi penduduk serta murid-murid di sekolah berhampiran. Ia juga bertujuan memastikan kejadian pelepasan

bahan toksik tidak berulang," katanya.

Ketika diminta mengulas mengenai aduan pencemaran Sungai Selangkah yang dibuat orang ramai terhadap JAS, Mohammad Ezanni berkata, terdapat kira-kira 20 hingga 30 kilang dikenal pasti berkemungkinan terlibat dalam kes pembuangan sisa toksik di sungai berkenaan.

"Siasatan terperinci sedang dijalankan bagi mengesan kilang yang terlibat mengikut Akta Kualiti Alam Sekeliling 1974," katanya.

- Bernama



AHMAD  
KAMARULNAJIB

LAMPIRAN 4  
THE STAR (NATION): MUKA SURAT 4  
TARIKH: 1 APRIL 2019 (ISNIN)

# Many people still wearing face masks

## Despite air quality improvement, students and parents remain wary

By REMAR NORDIN  
newsdesk@thestar.com.my

**PASIR GUDANG:** The Sungai Kim Kim pollution has eased up but that has not stopped many people, especially schoolchildren, from wearing face masks to protect themselves from any lingering toxic fumes.

Schools in and around here have reopened following the end of the pollution and the one-week school holiday.

Checks at SMK Pasir Gudang 2 here found that many students and parents were still wearing face masks despite the Department of Environment's assurance that the air quality is back to normal.

Among them was Nur Syazwani Husaini, who was earlier warded at Hospital Sultanah Aminah (HSA) after she complained of nausea.

"My class is on the third floor. It was windy and there was a sudden strong smell.

"I have asthma, so I had difficulty breathing. Each time I took a breath, I could feel a burning sensation," she recounted when met at the school here yesterday.

Another student, Nur Aishah Rusman, said it was a scary experience to see her friends, teachers and school staff being affected by the toxic fumes.

"A teacher brought me to the quarantine room. It was full of my schoolmates lying around and crying due to the pain.

"My parents actually did not want me to go to school because they were afraid that the



**Studies must go on:** SMK Pasir Gudang 2 students attending assembly on their first day back at school.

toxic fumes might come back," she added.

Johor Islamic Affairs and Education Committee chairman Aminolhuda Hassan said 355 students from around here had submitted their applications for the Takaful Pelajar

Sekolah Malaysia (TPSM) claim.

He said it involved students who were sent to hospital wards. Each student would be paid RM25 a day for the duration of their time in the hospital.

"All students in the country are covered by TPSM," Aminolhuda added.

SMK Pasir Gudang 2 was one of the 111 schools that were shut down following the third wave of toxic gas pollution caused by a chemical substance that had been dumped into Sungai Kim Kim on March 6.

Meanwhile, Education Minister Dr Maszlee Malik said students still traumatised by the toxic fumes would go for counselling sessions.

He said the Welfare Department and HSA's psychiatric unit would be conducting the sessions starting today.

"It will be done in stages, starting with two to three weeks depending on the trauma level of the student," he said after visiting SMK Pasir Gudang 1 yesterday.

He added that all 111 schools had reopened.

Aminolhuda said the affected students would have to catch up on their studies to prepare for upcoming examinations and that the schools need not hold replacement classes.

"Examinations will not be postponed. I believe the teachers are experienced in handling the learning procedures.

"We expect them to complete the syllabus to ensure that students are prepared to take the exams," he said.

Watch the video  
[thestartv.com](http://thestartv.com)



LAMPIRAN 5  
THE STAR (NATION): MUKA SURAT 4  
TARIKH: 1 APRIL 2019 (ISNIN)

# DOE completes final draft on forming panel

By REMAR NORDIN  
newsdesk@thestar.com.my

**PASIR GUDANG:** The Department of Environment (DOE) has completed its final draft for the forming of the Toxic Waste Management and Scheduled Waste National Committee following the chemical spill at Sungai Kim Kim.

Its director-general Datuk Dr Ahmad Kamarulnajib Che Ibrahim said the draft would be sent to the Energy, Science, Technology, Environment and Climate Change Ministry for approval.

"We have completed the draft. We will present it to the ministry as soon as possible for them to make the final decision.

"The committee will be responsible for any future toxic waste management," he said during a visit to SMK Taman Pasir Putih here yesterday.

Ahmad Kamarulnajib said the committee would be the highest platform that could make decisions on how to better manage toxic waste so that the Sungai Kim Kim case would not happen again.

He also stressed that the air quality in Pasir Gudang was back back to normal, but the DOE would continue to monitor the condition

“

The committee will be responsible for any future toxic waste management.

Datuk Dr Ahmad Kamarulnajib Che Ibrahim

”

of Sungai Kim Kim.

State DOE director Datuk Dr Mohammad Ezanni Mat Salleh said DOE was currently searching for factories responsible for dumping toxic waste into Sungai Selangkah here.

These factories, he said, had taken advantage of a high tide by releasing their waste into the river during the rainy season.

"We have identified 113 factories along Sungai Selangkah within a radius of 10km.

"We have identified 20 to 30 factories which are potential suspects," Mohammad Ezanni said, adding that DoE had yet to establish if the toxic waste that polluted Sungai Selangkah was the same type dumped into Sungai Kim Kim.

# LAMPIRAN 6 BERITA HARIAN (ISU): MUKA SURAT 7 TARIKH: 1 APRIL 2019 (ISNIN)

**PENCEMARAN SUNGAI KIM KIM** [FOTO HAIRUL ANUAR RAHIM/BH]



Maszlee memberi kata-kata semangat kepada pelajar ketika membuat tinjauan pascabencana pencemaran kimia di SMK Pasir Gudang 1, semalam.

## Pelajar trauma, terkesan insiden diberi kaunseling

➔ Langkah wujud sistem sokongan atasi isu berbangkit pascabencana

Oleh **Mohamed Farid Noh**  
farid\_noh@bh.com.my  
Pasir Gudang

**P**elajar yang trauma dan masih terkesan dengan insiden pencemaran sisa kimia di Sungai Kim Kim, akan diberi kaunseling oleh Jabatan Kebajikan Masyarakat (JKM), Unit Psikiatri Hospital Sultanah Aminah (HSA) dan sekolah, bermula hari ini. Menteri Pendidikan, Dr Maszlee Malik, berkata pelaksanaan program kaunseling itu ialah antara langkah diambil jabatan pendidikan negeri (JPN) susulan bencana pencemaran berkenaan. "Bermula esok (hari ini), pelajar terjejas khususnya yang

masih trauma berikutan insiden pencemaran kimia berbahaya itu, akan menerima bantuan kaunseling daripada pakar termasuk JKJ dan Unit Psikiatri HSA, selain guru bimbingan di sekolah. Kementerian Pendidikan mengucapkan terima kasih kepada semua terbabit kerana membantu secara langsung. "JPN sudah mewujudkan sistem sokongan untuk mengatasi segala isu berbangkit pasca bencana itu," katanya selepas membuat tinjauan pascabencana pencemaran kimia di Sekolah Menengah Kebangsaan (SMK) Pasir Gudang 1, di sini, semalam.

**Bantuan ikut keperluan**  
Pencemaran toksik di Sungai Kim Kim yang dikesan 7 Mac lalu, menjejaskan hampir 6,000 penduduk, termasuk pelajar sehingga semua 111 sekolah di Pasir Gudang diarahkan ditutup sementara sejak 13 Mac sebelum dibuka semula, semalam. Ditanya mengenai tempoh pelaksanaan program kaunseling berkenaan, Maszlee berkata, tiada jangka masa tertentu tetapi bantuan akan terus diberi mengikut keperluan. "Ia akan dibuat secara ber-

peringkat. Untuk permulaan, dalam dua hingga tiga minggu mengikut tahap trauma pelajar terbabit," katanya. Beliau berkata, seramai 2,510 pelajar terjejas di Pasir Gudang menerima rawatan akibat bencana pencemaran itu dengan 450 daripadanya dimasukkan ke wad bagi rawatan susulan.

**Kehadiran pelajar capai 90 peratus**  
Sementara itu, kehadiran pelajar di 111 sekolah yang ditutup mencapai 90 peratus apabila dibuka semula, semalam.

Pengerusi Jawatankuasa Hal Ehwal Agama Islam dan Pendidikan Johor, Aminolhuda Hasan, berkata jumlah kehadiran pelajar berkenaan amat baik, walaupun sebelum itu ada kebimbangan dalam kalangan ibu bapa.

"Saya mendapat laporan awal bahawa kehadiran pelajar di 111 sekolah di sini yang sebelum ini ditutup akibat pencemaran, mencapai 90 peratus.

"Laporan kualiti udara daripada Jabatan Alam Sekitar (JAS) juga menunjukkan pada tahap baik dan bebas pencemaran," katanya pada sidang media selepas membuat tinjauan di SMK

Pasir Gudang 2. Dalam pada itu, Aminolhuda berkata, seramai 355 pelajar terjejas pencemaran itu sudah menghantar permohonan mendapatkan Takaful Pelajar Sekolah Malaysia. Beliau berkata, ia membabitkan mereka yang dirawat di wad hospital dengan setiap pelajar terbabit akan dibayar RM25 sehari sepanjang tempoh rawatan di hospital.

"Kita menjangkakan lebih ramai pelajar akan menghantar borang permohonan takaful berikutan sekolah baru dibuka hari ini (semalam)," katanya. Ditanya sama ada kerajaan negeri akan membayar pampasan kepada pelajar terjejas akibat pencemaran berkenaan pula, Aminolhuda berkata, perkara itu belum diputuskan.

Sementara itu, beliau berkata, kecekapan dan kemahiran guru menghabiskan sukatan pelajaran diyakini mampu membantu pelajar yang tidak dapat hadir ke sekolah terbabit. "Saya percaya pelajar dapat mengikuti proses pengajaran dan pembelajaran seperti biasa walaupun terpaksa kejar untuk menghadapi peperiksaan," katanya.

## LAMPIRAN 7 BERITA HARIAN (ISU): MUKA SURAT 7 TARIKH: 1 APRIL 2019 (ISNIN)

### JAS mahu tubuh jawatankuasa kebangsaan urus sisa toksik

**Pasir Gudang:** Jawatankuasa Kebangsaan Pengurusan Sisa-sisa Toksik dan Pembuangan Terjadual akan ditubuhkan bagi pengurusan sisa toksik di negara ini.

Ketua Pengarah Jabatan Alam Sekitar (JAS), Datuk Ahmad Kamarulnajib Ibrahim, berkata langkah itu penting sebagai panduan pengurusan sisa toksik, sekali gus mengelakkan insiden pencemaran seperti di Sungai Kim Kim berulang.

"JAS dalam perancangan untuk menubuhkan Jawatankuasa Kebangsaan Pengurusan Sisa-sisa Toksik dan Pembuangan Terjadual dan kini sedang menyediakan draf. Ia akan dikemuka kepada pihak berkaitan dalam tempoh terdekat.

"Fungsi penubuhan jawatankuasa berkenaan adalah bagi membuat keputusan berkaitan isu pengurusan sisa toksik pada masa depan, selain mengelakkan pencemaran toksik yang menjejaskan alam sekitar dan manusia," katanya selepas melawat Sekolah Menengah Kebangsaan (SMK) Pasir Putih, di sini, semalam.

#### Pantau kualiti udara

Yang turut hadir, Pengarah JAS Johor, Datuk Dr Mohammad Ezanni Mat Salleh.

Sementara itu, Ahmad Kamarulnajib, berkata data pemantauan kualiti udara di 20 sekolah dalam radius 15 kilometer dari Sungai Kim Kim adalah baik dan pada paras dibenarkan.

Beliau berkata, jabatan berkenaan juga menjalankan pemantauan kualiti udara di lokasi tertentu di sekitar Pasir Gudang dan mendapati keadaannya juga baik.

"JAS akan melaksanakan pemantauan kualiti udara secara berterusan di kawasan yang terjejas bagi memastikan kualiti udara baik bagi penduduk dan warga sekolah.

"Kita juga akan mempertingkatkan penguatkuasaan terhadap kilang-kilang yang tidak mematuhi peraturan iaitu melepaskan effluen tanpa dirawat.

"Effluen berkenaan seharusnya perlu dilupuskan dalam tempoh tidak melebihi enam bulan atau dilupuskan sekiranya sudah mencecah 20 tan," katanya.

Dalam pada itu, Ahmad Kamarulnajib berkata, pihaknya sudah mengeluarkan kompaun terhadap 60 kilang di Pasir Gudang yang didapati gagal mematuhi peraturan ditetapkan.

Katanya, jumlah kompaun adalah RM2,000 dan tindakan mahkamah juga boleh diambil terhadap mereka.



Langkah ini sebagai panduan pengurusan sisa toksik, sekali gus elak insiden pencemaran seperti di Sungai Kim Kim berulang"

**Ahmad Kamarulnajib Ibrahim,**  
Ketua Pengarah JAS



LAMPIRAN 8  
SINAR HARIAN: MUKA SURAT 13  
TARIKH: 1 APRIL 2019 (ISNIN)

## Kilang buang sisa ke sungai ketika hujan

PASIR GUDANG - Jabatan Alam Sekitar (JAS) sedang mengenal pasti kilang-kilang yang membuang sisa toksik ke dalam Sungai Selangkah.

Pengarahnya, Datuk Dr Mohammad Ezanni Mat Salleh berkata, kilang terbabit dipercayai mengambil kesempatan dengan membuang sisa toksik ketika waktu hujan.

"Bagi pencemaran Sungai Selangkah siasatan telah dijalankan dan kita dapati aduan itu timbul selepas hujan. Jadi kita syak ada kilang-kilang mengambil kesempatan melepaskan sisa toksik tanpa dirawat ke sungai pada waktu hujan.

"Sebab tu masa hujan, timbul bau kimia dan sebagainya. Semakan kita pada waktu kering, keadaannya normal tapi ketika hujan, keadaan jadi luar biasa. Jadi kita syak ini kaedah diguna pelaku," katanya di sini, semalam.

Sebelum ini, *Sinar Harian* melaporkan rungutan penduduk Taman Tanjung Puteri Resort Fasa 2 terhadap bau busuk yang terpaksa dihidu setiap hari dari Sungai Selangkah be-



Ezanni (kiri) mengiringi Ketua Pengarah JAS, Datuk Dr Ahmad Kamarulnajib Che Ibrahim (dua, kiri) di SMK Taman Pasir Putih.

gitu hampir dengan kediaman mereka.

Dalam pada itu, Mohammad Ezanni menegaskan, pihaknya sedang giat melakukan pemeriksaan setiap kilang yang disyaki bagi mengesan pelaku.

"Mana-mana kilang yang didapati melanggar arahan kita akan ambil tindakan sewajarnya. JAS melipat gandakan operasi untuk kenal pasti kilang-kilang tersebut dengan kadar segera.

"Kita anggarkan ada 113 buah kilang di sepanjang Sungai Selangkah

dalam jarak sekitar 10 kilometer radius dan sekarang ini ada 20 hingga 30 buah kilang yang disyaki terlibat. Kita periksa satu demi satu," katanya.

Namun pihaknya masih belum mengenal pasti sama ada sisa toksik yang mencemari Sungai Selangkah itu sama atau berbeza dengan pencemaran di Sungai Kim Kim.

"Bahannya kita tak pasti lagi tapi unit pengawasan memeriksa kualiti air sungai sedang kenal pasti kandungan supaya mudah untuk tahu suspek," katanya.

LAMPIRAN 9
HARIAN METRO (SETEMPAT): MUKA SURAT 22
TARIKH: 1 APRIL 2019 (ISNIN)



MASIH ada pelajar memakai topeng muka sebagai langkah berjaga-jaga ketika hadir ke sekolah.



AMINOLHUDA (lima dari kiri) bertanya khabar pelajar yang hadir ke sekolah semula ketika lawatannya di Sekolah Menengah Kebangsaan Pasir Gudang 2.

90% HADIR SEKOLAH

Kehadiran pelajar pada hari pertama persekolahan memberangsangkan selepas isu racun Sungai Kim Kim

Mary Victoria Dass
maryvictoria@nstp.com.my

Pasir Gudang

Kehadiran murid dan pelajar 111 sekolah di daerah ini yang dibuka semula semalam selepas ditutup sejak 13 Mac lalu akibat pencemaran sisa kimia di Sungai Kim Kim melebihi 90 peratus.

Pengurus Jawatankuasa Hal Ehwal Agama Islam dan Pendidikan negeri, Aminolhuda Hassan berkata, tinjauan ke Sekolah Menengah Kebangsaan (SMK) Pasir Gudang II di Taman Mawar di sini mendapati kehadiran pelajar pada hari pertama persekolahan semalam amat memberangsangkan.

Beliau berkata, senario positif itu menunjukkan keyakinan ibu bapa dan pelajar terhadap keputusan Kementerian Pendidikan Malaysia (KPM) untuk membuka semula sekolah di

sekitar Pasir Gudang semalam selepas cuti krisis dan cuti penggal pertama.

Mereka juga yakin dan percaya dengan laporan agensi berkaitan mengenai keadaan kualiti udara yang semakin pulih selepas kerja pembersihan dijalankan dengan kos sejumlah RM6 juta di Sungai Kim Kim.

Kami mendapati masih ada yang menggunakan penutup hidung dan mulut, ia sebagai langkah keselamatan dan sebagai manusia memang perasaan takut adalah perkara biasa, katanya ketika meninjau SMK Pasir Gudang II, semalam. Hadir sama Timbalan Pengarah Jabatan Pendidikan Negeri JPN Johor, Azman Adnan.

Beliau berkata, keadaan udara pada hari ini baik dan semua sekolah yang dibuka semula beroperasi seperti biasa.

Saya percaya guru di sekolah terbabit mampu menyelesaikan masalah pembelajaran yang ketinggalan dan akan

mengambil langkah tertentu bagi memastikan kumpulan pelajar dan murid menguasai sebelum peperiksaan.

Malah tarikh peperiksaan juga tidak ditangguh dan akan berjalan seperti di rancang, katanya.

Aminolhuda berkata, pihaknya juga menyerahkan borang tuntutan Takaful Pelajar Sekolah Malaysia kepada 355 pelajar yang terjejas.

Mereka yang dimasukkan ke wad layak menuntut RM25 sehari bagi tempoh rawatan ketika ditahan di wad hospital.

Kami juga akan mengesan murid dan pelajar yang masih belum menerima borang tuntutan berkenaan, katanya.

Akibat pencemaran udara yang berlaku pada 7 Mac lalu berpunca daripada pemuangan sisa kimia ke Sungai Kim Kim, di sini, sebanyak 111 sekolah sekitar Pasir Gudang membabitkan 115,000 pelajar dan 8,000 guru, ditutup sejak 13 Mac lalu.

Pencemaran yang berlaku menjejaskan kira-kira 6,000 mangsa termasuk pelajar dan murid sekolah dan penduduk.

FAKTA
Pelajar yang dimasukkan ke wad layak menuntut RM25 sehari



**LAMPIRAN 9 (SAMB.)  
HARIAN METRO (SETEMPAT): MUKA SURAT 23  
TARIKH: 1 APRIL 2019 (ISNIN)**

**Johor Bahru:** Kementerian Pendidikan menyediakan khidmat kaunseling pasca bencana kepada warga sekolah yang trauma akibat pencemaran bahan kimia di Sungai Kim Kim, Pasir Gudang, 7 Mac lalu.

Menteri Pendidikan, Dr Maszlee Malik berkata, langkah proaktif itu antara pendekatan dilaksanakan bagi membantu individu terkesan pencemaran terbahit.

"Kementerian bersikap proaktif dengan menyediakan khidmat kaunseling bagi mereka yang trauma terhadap apa yang berlaku (kesan pencemaran).

"Kaunselor sekolah dengan kerjasama Jabatan Kebajikan Masyarakat (JKM) dan Kementerian Kesihatan terutama Hospital Sultanah Aminah (HSA) akan dihantar ke sekolah," katanya.

Beliau berkata demikian ketika merasmikan Kursus Kepimpinan dan Pentadbiran Majlis Pengurusan Komuniti Kampung (MPKK) Parlimen Simpang Renggam di sebuah hotel di sini, semalam.

Dr Maszlee berkata, khidmat kaunseling akan diberikan kepada pelajar, guru dan kakitangan sekolah bagi memberikan

rawatan trauma kepada mereka.

Menyentuh mengenai lawatannya ke sekolah terjejas akibat pencemaran yang memulakan sesi persekolahan hari ini katanya, semua dalam keadaan baik.

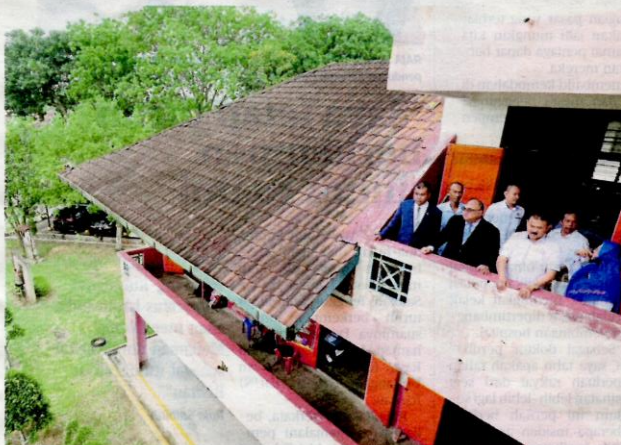
"Di sekolah (ketika lawatan) murid, pelajar dan guru bersemangat memulakan sesi persekolahan, bahkan kakitangan sekolah juga dalam keadaan baik.

"Kami juga ingin memberitahu kepada rakyat di Malaysia rakyat di Pasir Gudang kini sudah kembali kepada kehidupan asalnya," katanya.



**Sedia khidmat kaunseling di sekolah**

DR Maszlee Malik (dua dari kiri) memberi kata-kata semangat kepada pelajar ketika melawat SMK Pasir Gudang selepas sekolah dibuka semula.



DR Ahmad Kamarulnajib (dua dari kiri) dan Dr Muhammad Ezanni (kiri) memantau kualiti udara di sekolah ketika melakukan lawatan selepas kes pencemaran Sungai Kim Kim di SMK Pasir Putih, Pasir Gudang.



STESEN Pengawasan Kualiti Udara Automatik yang dipasang Jabatan Alam Sekitar (JAS) Johor di SMK Pasir Gudang 2 bagi memantau kualiti udara.

## Berterusan pantau kualiti udara

**Pasir Gudang:** Data pemantauan kualiti udara di 20 sekolah dalam radius 15 kilometer dari Sungai Kim Kim di sini, adalah baik dan di paras dibenarkan.

Ketua Pengarah Jabatan Alam Sekitar (JAS), Datuk Dr Ahmad Kamarulnajib Ibrahim berkata, jabatan berkenaan juga menjalankan pemantauan kualiti udara di lokasi tertentu di sekitar Pasir Gudang dan mendapati keadaannya baik.

Beliau berkata, JAS akan melaksanakan pemantauan kualiti udara secara berterusan di kawasan yang terjejas bagi memastikan kualiti udara baik bagi penduduk.

Menurutnya, pemantauan

juga dilakukan bagi memastikan kejadian pelepasan bahan toksik ke udara tidak berulang.

"Kami akan meningkatkan pengawasan berkala mengikut frekuensi ditetapkan menggunakan alat lebih spesifik bagi membaca parameter yang rendah kekepatannya.

"Malah, kami mempertingkatkan penguatkuasaan terhadap kilang yang tidak mematuhi peraturan iaitu melepaskan efluen tanpa dirawat.

"Efluen berkenaan seharusnya perlu dilupuskan dalam tempoh tidak melebihi enam bulan atau dilupuskan sekiranya sudah mencecah 20 tan," katanya dalam lawatannya ke

Sekolah Menengah Kebangsaan (SMK) Pasir Putih di sini, semalam.

SMK Pasir Putih antara 111 sekolah terjejas dalam pencemaran bahan kimia di Sungai Kim Kim sejak 7 Mac lalu.

Hadir sama, Pengarah JAS Negeri, Datuk Dr Mohammad Ezanni Mat Salleh

Ahmad Kamarulnajib berkata, pihaknya sudah mengeluarkan kompaun terhadap 60 kilang di Pasir Gudang yang didapati gagal mematuhi peraturan ditetapkan.

Menurutnya, jumlah kompaun RM2,000 dan tindakan mahkamah juga boleh diambil terhadap mereka.



LAMPIRAN 10  
MINGGUAN MALAYSIA (DALAM NEGERI): MUKA SURAT 66  
TARIKH: 31 MAC 2019 (AHAD)

## Kualiti udara sekitar Sungai Kim Kim kini stabil – JAS

**JOHOR BAHRU 30 Mac** - Pemantauan **Jabatan Alam Sekitar (JAS)** di 30 buah sekolah dalam radius 10 kilometer sekitar Pasir Gudang mendapati kualiti udara di dalam paras yang dibenarkan dan stabil.

Pemantauan kualiti udara oleh JAS di kawasan itu dilaksanakan secara berterusan setelah pencemaran toksik di Sungai Kim Kim, Pasir Gudang pada 7 Mac lalu menjejaskan sekolah-sekolah berhampiran.

JAS dalam satu kenyataan hari ini memberitahu, pihaknya juga telah menjalankan pemantauan di lokasi-lokasi tertentu dalam lingkungan 15

kilometer radius dari kawasan kejadian dan secara keseluruhannya keputusan bagi data pemantauan kualiti udara di lokasi tersebut adalah dalam paras yang dibenarkan dan stabil.

“JAS akan terus melaksanakan pemantauan kualiti udara secara berterusan di kawasan yang terjejas bagi memastikan kualiti udara adalah dalam paras yang dibenarkan bagi penduduk tempatan serta murid-murid di sekolah terbabit.

“Pemantauan kualiti udara ini juga adalah bagi memastikan kejadian pelepasan bahan toksik ke udara tidak berulang,” menurut kenyataan itu.



**PENCEMARAN** toksik di Sungai Kim Kim, Pasir Gudang, Johor telah menyebabkan lebih 50 buah sekolah berhampiran ditutup.

LAMPIRAN 11  
NEW SUNDAY TIMES: MUKA SURAT 2  
TARIKH: 31 MAC 2019 (AHAD)

EXTRA CAUTIOUS

# STRICT S.O.P. FOR BAUXITE EXPORT

Kuantan Port pledges 'red sea' phenomenon will not happen again

T.N. ALAGESH  
AND ABDUL RAZAK RAAFF  
KUANTAN  
news@nstp.com.my

ONCE bitten, twice shy. The saying best describes Kuantan Port's preparedness not to make the mistake again when it comes to handling bauxite.

In 2015, the port was on the receiving end following the "red sea" phenomenon at a river and beach that was allegedly caused by bauxite ore.

Kuantan Port chief operating officer Mazlim Husin said they

would take extra precautions, including implementing a strict standard operating procedure (SOP).

"The future of bauxite exportation through this (Kuantan) port depends on how we handle the minerals. If we repeat the same mistake again, bauxite might not be sent here. We will not allow it to happen again.

"We are extra cautious. When the port handled bauxite in the past, some clients had complained about dust entering their factories and contaminating their cargo. We have to be sensitive to their complaints," he told the *New Sunday Times*.

Mazlim said the port was aware that things needed to go smoothly as all eyes would be on them.

"I told my team to handle it (bauxite) safely, neatly and fast without polluting the environment. Since we handle other con-



Mazlim Husin

signments, we have to look at our long-term operation. If not, we may end up losing our revenue.

"The government's announcement that bauxite ore must be

washed before exporting is a good move. If this is adhered to, we should not have any problems. Kuantan Port has been handling iron ore exports for 10 years and we have had no problems."

Mazlim said bauxite operators were making arrangements to export the 207,000 tonnes in stockpiles inside the port.

"Initially, there were 257,000 tonnes before two vessels were hired to export 50,000 tonnes of the ore.

"However, the move depends on bauxite owners. We do not know when they will hire additional vessels to clear the remaining stockpiles.

"The minister (Water, Land and Natural Resources Minister Dr A. Xavier Jayakumar) had announced that bauxite stockpiles at the port must be cleared by March 31 (today) and operators

will not be allowed to export after

the deadline," he said.

On the new conditions on bauxite handling at the port, Mazlim said the SOP was submitted to the Department of Environment, Kuantan Port Authority and Transport Ministry, and it had received their approval.

He said the new SOP included allowing only two berths at the port to handle bauxite for export, the introduction of a 700m conveyor system to transport bauxite directly to the ship from the stockpiles and the handling of a maximum of 600,000 tonnes of bauxite a month.

"Unlike in the past, vessels involved in exporting bauxite will dock at two multipurpose berths.

"One berth will use the conveyor system to ensure minimum spillage when ore is loaded onto the vessel, while the other will continue to use lorries."



LAMPIRAN 12  
SINAR HARIAN (PENCEMARAN SUNGAI KIM KIM): MUKA SURAT 13  
TARIKH: 1 APRIL 2019 (ISNIN)

# Pelajar diberi kaunseling

*Untuk kurangkan rasa trauma dalam kalangan mangsa terlibat*

PASIR GUDANG

**M**angsa yang terkesan atau trauma dengan bencana pencemaran Sungai Kim Kim awal bulan lalu diberi kaunseling mulai semalam.

Menteri Pendidikan, Dr Maszlee Malik berkata, program berkenaan bukan sekadar tertumpu kepada pelajar di kawasan terjejas.

"Kita telah adakan program kaunseling kepada mangsa yang trauma dalam kalangan murid, guru dan kakitangan sekolah.

"Program ini akan di-



Dr Maszlee meluangkan masa melawat SMK Pasir Gudang pada hari pertama sesi persekolahan selepas cuti bencana dan cuti penggal pertama berakhir.



laksanakan oleh guru bimbingan dan kaunseling negeri mulai 1 April (hari ini) dengan kerjasama Jabatan Kebajikan Malaysia (JKM) dan Unit Psikiatri Hospital Sultanah Aminah," katanya kepada pem-

berita selepas melawat SMK Pasir Gudang di sini, semalam.

Maszlee bagaimanapun mengakui gembira melihat semangat yang ditunjukkan pelajar, guru serta kakitangan yang hadir ke se-

kolah selepas dirawat di hospital.

"Saya rasa amat gembira dengan keadaan sekolah yang selamat untuk dihadiri pelajar dan guru. Saya gembira lihat semua dalam keadaan selamat.

"Saya tengok dalam 90 peratus pelajar telah kembali ke sekolah," katanya.

Setakat ini, seramai 398 pelajar telah membuat permohonan tuntutan insurans daripada Takaful Malaysia dan Maszlee

berharap urusan tersebut dapat dipercepatkan.

Sebelumnya, Maszlee telah meluangkan masa melawat dan beramah mesra dengan pelajar-pelajar serta guru SMK Pasir Gudang.



LAMPIRAN 13  
UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 19  
TARIKH: 1 APRIL 2019 (ISNIN)

## Moratorium tamat, aktiviti bauksit belum boleh diteruskan

**KUANTAN 31 Mac** - Penamatan arahan moratorium terhadap kegiatan perlombongan bauksit di negeri ini bermula esok tidak bermakna aktiviti tersebut boleh kembali diteruskan seperti biasa sehingga prosedur operasi standard (SOP) mengenainya diluluskan.

Ahli Parlimen Kuantan, Fuziah Salleh berkata, perkara itu telah dinyatakan oleh Menteri Air, Tanah dan Sumber Asli, Dr. Xavier Jayakumar bahawa semua pihak perlu bersedia melaksana dan menguatkuasakan SOP aktiviti perlombongan dan pengeksportan bauksit negeri.

Katanya, sesi pendengaran awam bagi mendapatkan maklum balas mengenai SOP berkenaan akan diadakan pada 14 April ini.

"Sebelum sesi itu diadakan

dan SOP diluluskan, saya difahamkan operasi perlombongan bauksit tidak boleh dimulakan. Diharapkan kita sama-sama me-

antau supaya tiada pergerakan lori mengangkut bauksit sehingga SOP baharu diluluskan," katanya selepas merasmikan Sambutan Hari Wanita di Pantai Cheroke Paloh, di sini hari ini.

Dalam pada itu, berhubung kenyataan Menteri Pembangunan Usahawan, Datuk Seri Mohd.

Redzuan Yusof bahawa kilang memproses nadi bumi, **Lynas Corporation Ltd. (Lynas)** di Gebeng di sini akan diteruskan sebagai salah satu usaha kerajaan untuk menarik pelabur asing melabur di negara ini, Fuziah berkata, perkara berkenaan seharusnya dilihat secara holistik dan bukan dengan satu perspektif sahaja.



**FUZIAH SALLEH**

LAMPIRAN 14
KOSMO (NEGARA): MUKA SURAT 4
TARIKH: 1 APRIL 2019 (ISNIN)

Lynas didakwa jejas penduduk Gebeng

KUALA LUMPUR - Projek Lynas di Gebeng, Kuantan Pahang menjejaskan penduduk kampung yang tinggal berhampiran, dakwa Ahli Parlimen Kuantan, Fuziah Salleh.

Fuziah berkata, hanya selepas lima tahun beroperasi, pembuangan sisa radioaktif di tapak dan sisa berjadual kini berjumlah 1.5 juta tan metrik dan air bawah tanah di bawah Lynas sudah tercemar dengan logam berat.

"Ini akan memberi kesan kepada penduduk kampung yang tinggal di sekitar Gebeng, yang sebahagiannya masih bergantung kepada telaga tiub untuk kegunaan air harian mereka. Ia juga akan mencemarkan saluran air di sekitar Gebeng," katanya dalam satu kenyataan di sini semalam.

Fuziah yang juga Timbalan Menteri di Perdana Menteri berkata, isu berkenaan dengan Lynas

Kilang Lynas tidak akan ditutup, tarik pelabur

KUALA LUMPUR - Kerajaan akan menubuhkan syarikat Lynas Malaysia Sdn. Bhd. (LMS) di Labuan, Labuan. Syarikat ini akan menguruskan operasi kilang Lynas di Labuan, Labuan. Menteri Pembangunan Usahawan dan Koperasi, Datuk Seri Mohd. Yusof berkata, syarikat ini akan menguruskan operasi kilang Lynas di Labuan, Labuan.

berkaitan dengan projek ini, katanya. "Ini adalah projek yang akan memberi kesan kepada penduduk kampung yang tinggal berhampiran, dakwa Ahli Parlimen Kuantan, Fuziah Salleh.

Apie Shabih Menteri Pembangunan Usahawan Malaysia, Datuk Seri Mohd. Yusof berkata, syarikat ini akan menguruskan operasi kilang Lynas di Labuan, Labuan.



KERATAN Kosmo! Ahad semalam.

biasanya disalah faham oleh ramai orang terutamanya berkaitan dengan pengurusan sisa khususnya dengan sisa radioaktif.

"Lynas bijak dalam strategi menyampaikan mesej mereka yang agak mudah terpedaya dengan pernyataan mereka tentang tahap radiasi yang rendah.

"Lynas sentiasa membisu mengenai thorium dalam sisa radioaktif mereka yang mempunyai jangka hayat yang sangat lama sehingga mencapai 14 bilion tahun.

"Tetapi sayang sekali, ramai dalam kalangan kerajaan juga tidak memahami isu pengurusan sisa yang betul dan yakin dengan

cerita Lynas disampaikan kepada orang ramai," jelasnya.

Jelas Fuziah, kerajaan sentiasa mengalu-alukan kehadiran pelabur asing yang berhasrat mengembangkan perusahaannya mereka di Malaysia dengan syarat mereka bermatlamatkan pembangunan lestari.

"Walaupun kehadiran pelabur penting, namun pada masa yang sama kehadiran mereka tidak boleh disertai dengan masalah seperti pembuangan sisa toksik atau perkara lain yang berisiko merosakkan alam semula jadi," katanya.

Kosmo! Ahad semalam melaporkan, kerajaan akan meneruskan operasi Lynas di Gebeng dalam usaha mengembalikan keyakinan pelabur asing ke negara ini.

Menteri Pembangunan Usahawan Datuk Seri Mohd. Redzuan Yusof berkata, berikutan itu Lynas dibenarkan meneruskan operasi mereka.

LAMPIRAN 15  
 SINAR HARIAN (SENTRAL): MUKA SURAT 20  
 TARIKH: 1 APRIL 2019 (ISNIN)

**535kg sampah dikutip dari Sungai Klang**

KUALA LUMPUR - Sebanyak 535 kilogram sampah dikutip pada program pembersihan sungai di bawah Program Pendekatan Awam, Fasa 5 Sungai Nadi Kehidupan (RoL) oleh Jabatan Pengairan dan Saliran (JPS) di sepanjang 100 meter Sungai Klang, di sekitar Midvalley Megamall, di sini semalam.

Program bermula jam 8 pagi itu adalah inisiatif Friends of Sungai Klang Mid Valley (FoSK MV) hasil gabungan enam NGO yang terdiri daripada persatuan-persatuan pencinta alam sekitar, persatuan penduduk dan badan-badan korporat.

Pengurus Projek Fasa 5 Program Pendekatan Awam RoL Dr K. Kalithasan berkata, program pembersihan di hadapan Midvalley Megamall dan Pangsapuri Abdullah Hukum di sepanjang 500 meter sungai itu disertai 150 sukarelawan.

"Jumlah sisa buangan terkumpul yang boleh dikitar semula adalah 50 kilogram yang terdiri daripada 41 kilogram botol plastik, diikuti tujuh kilogram kaca



Sebahagian sukarelawan sibuk mengasingkan sampah yang dikutip.



Pembersihan dilakukan di Sungai Klang dan Pangsapuri Abdullah Hukum.

dan dua kilogram logam.

"Kami sedaya upaya meminimumkan penghantaran sisa-sisa buangan ini ke tapak pelupusan dan cuba untuk kitar semula hasil buangan tersebut untuk kelestarian alam sekitar," katanya selepas program pembersihan Sungai Klang di sini, semalam.

diadakan untuk meningkatkan kesedaran terutamanya dalam kalangan orang awam untuk tidak menganggap sungai dan tebing sungai sebagai tong sampah atau tempat membuang sampah.

"Selama ini, setiap NGO beroperasi secara bersendirian namun kini setiap kepakaran mereka bakal dimanfaatkan untuk

peroleh hasil lebih baik.

"Dengan penglibatan penduduk dan pengusaha di sekitar kawasan Sungai Klang, ia secara tidak langsung pupuk kesedaran cintai sungai," katanya.

Dr Kalithasan berkata, masyarakat tidak boleh bergantung kepada pihak berkuasa tempatan semata-mata untuk menjaga ke-

bersihan, sebaliknya semua pihak perlu memainkan peranan tidak membuang sampah sesuka hati.

Pengurus Program FoSK MV Shayley Hing berkata, program itu akan menyaksikan satu program pembersihan mingguan termasuk mengindahkan kawasan tebing sungai dan memastikan bersih. *Berita*



LAMPIRAN 16  
THE STAR (SME BIZ): MUKA SURAT 10  
TARIKH: 1 APRIL 2019 (ISNIN)

# The many applications of artificial intelligence

By NEIL FOO

WHAT is artificial intelligence (AI)? Malaysians are generally not aware that AI is already present in our day-to-day lives.

Worse still, blue collar labourers, white collar top executives and even policy makers seem to know little of the progress of AI. Some may not even know what AI stands for.

The field of AI studies started in 1956. Over the years, the sector has experienced waves of optimism, stagnation and the loss of funding.

AI is a branch of computer science dealing with the simulation of intelligent behaviour in computers and the capability of a machine to imitate intelligent human behaviour. AI machine mimics "cognitive" functions that humans normally associate with other human minds, such as learning and problem solving.

The study of AI can be in cognitive science, engineering, ethics, linguistics, logic, mathematics, natural sciences, philosophy, physiology, psychology, and statistics.

It should be exhibited by thinking, decision making, solving problems, and more importantly, learning.

The study of AI believes that machines can be made self-aware with human-like AI, in which the computer program thinks and reasons at the level of a human being.

On the other hand, there is also non-human-like AI, where the computer program develops a non-human way of thinking and reasoning.

Facial recognition, voice recognition, chat bot, machine translator and robotics – these are some of the AI applications used to solve many real life problems today. For example, robots are used to help find land-mines, search for humans trapped under rubble, and clean underground drainage systems.

According to a McKenzie report, AI could add an extra 1.2% yearly GDP growth in the next 10 years. It is estimated that AI could generate US\$13 trillion in extra global economic activity by 2020. There will be approximately 70% of companies that will at least adopt one AI application.

These numbers sound great.

But on the other end of the spectrum, we have the SMEs who are puzzled about how to use AI to make money.

Employees are also starting to be

anxious about whether their jobs will be replaced by AI-led instruments or robots. Hence, they would wonder whether they should embrace AI or not.

There are generally four kinds of AI applications.

## 1. Internet AI

The use of AI in Google, Facebook, Microsoft and YouTube keeps our eyeballs preoccupied. For example, I get notifications on NBA and Shark Tank videos on my smartphone and computer, all trying to get me to watch these programmes.

"Scroll, watch, like, share" is becoming a means of compiling Big Data.

The application of AI on the Internet is embedded into the search history, for example, to get information on the users' interest and display relevant advertisements while they are watching videos or browsing the Internet for information, sub-consciously playing on the consumers' minds and persuading them to make purchases.

Companies like Google, Facebook and Microsoft have been earning money from AI.

## 2. Finance AI

The finance sector is using AI to evaluate loan applications and credit rating of companies and applicants. It traces and tracks all possible information online in terms of repayment track records of credit cards, car loans, house loans and so on.

This includes crawling for any previous wrongdoings of the companies and applicants.

This also makes the work much faster and accurate.

## 3. AI recognition

Facial recognition can help a traditional business adopt a Precision Marketing model as it helps retailers monitor customer behaviour and satisfaction.

By analysing facial expressions, the AI technology can detect and determine the level of satisfaction a customer feels in terms of shop appeal, product attraction and customer service feedback.

Likewise, it can also help retailers easily record the daily flow of customers in the shop, their preferred shelf level, colours and designs. The AI-enabled CCTV can even tell

the gender of the patrons.

AirAsia has announced that it is adopting AI facial recognition management system to enhance their efficiency and security control efficacy.

## 4. Self AI

The Chinese have started moving towards electric car years ago. We are still talking about it as the "future" or we are still on the hybrid model.

I have ridden in the electric car taxi in Shenzhen and Hangzhou a few times. In my chats with the drivers, they shared that they have been driving these cars, branded under BYD, for at least three years and they are satisfied with the performance of China-made electric cars.

The electric cars are equipped with AI voice recognition to start the car, use the GPS, control the audio and so on.

In conclusion, AI application is not about the future, it is happening now. It is already transforming our lifestyle in so many ways.

Neil Foo is the Malaysian representative of Apec SME Forum and AI practitioner.



LAMPIRAN 17  
**SINAR HARIAN (PENCEMARAN KIM KIM): MUKA SURAT 12**  
**TARIKH: 1 APRIL 2019 (ISNIN)**

**Exco yakin pelajar tidak lagi bimbang ke sekolah**



Aminohuda bertanya khabar dengan pelajar yang hadir bagi sesi persekolahan pertama di SMK Pasir Gudang 2, semalam.

PASIR GUDANG - Kerajaan negeri percaya pelajar sudah kembali yakin untuk memulakan sesi persekolahan semalam, selepas ditutup selama dua minggu akibat pencemaran Sungai Kim-Kim.

Exco Pendidikan Johor, Aminohuda Hassan berkata, berdasarkan pemerhatian beliau ketika melawat SMK Pasir Gudang 2, semalam, beliau yakin pelajar tidak lagi bimbang untuk ke sekolah. "Pelajar yakin dengan apa yang diputuskan pihak

kerajaan terutama suasana setelah lebih dua minggu mereka berada di rumah. Pusat saringan juga telah ditutup, maknanya tiada lagi orang yang tercemar akibat udara kotor ini.

"Kita buat pemerhatian sudah lebih seminggu. Saya yakin dan percaya pelajar sudah berani untuk datang ke sekolah dan tidak bermasalah tentang ketidakhadiran itu. Yang tak datang mungkin sebab masalah lain," katanya kepada pemberita ketika ditemui selepas

membuat tinjauan hari pertama di sekolah berkenaan semalam.

Sementara itu, Aminohuda berkata, setiap pelajar yang dimasukkan ke wad akan menerima pampasan daripada Takaful Malaysia sebanyak RM25 sehari.

Bagaimanapun, kerajaan negeri masih belum memutuskan sama ada akan memberi pampasan atau tidak kepada pelajar-pelajar yang terjejas akibat pencemaran kimia itu.

Sementara itu, Pengetua

SMK Pasir Gudang 2, Mahidah Kosnan berkata, setakat ini pihaknya tidak menerima sebarang laporan mengenai pelajar trauma atau takut untuk ke sekolah. Namun, katanya, pihaknya sentiasa bersedia dengan sebarang kemungkinan.

"Tapi kita tak ada terima aduan dari PIBG dan ibu bapa ada anak-anak yang trauma atau takut untuk ke sekolah," katanya.

**Mangsa gas toksik masih trauma**

Sebahagian pelajar masih memakai topeng sebagai langkah berjaga-jaga

RAZIATUL HANUM  
 A RAJAK@ATAN

PASIR GUDANG

Kesemua sekolah di Pasir Gudang memulakan sesi pembelajaran seperti biasa semalam, selepas cuti bencana yang bersambung dengan cuti penggal pertama berakhir.

Tinjauan *Sinar Harian* di SMK Pasir Gudang 2 di sini, semalam mendapati, rata-rata pelajar gembira dapat kembali semula ke sekolah, namun segelintir pelajar masih mengenakan topeng muka di dalam kelas sebagai langkah berjaga-jaga.

Pelajar Tingkatan 6, Nur Syafiqah Afifah Nordin, 19, berkata, dia sebenarnya bimbang untuk ke sekolah semalam selepas dirawat selama dua hari di hospital.

"Memang takut. Saya pun ada asma jadi pakai oksigen sepanjang masa. Masa di sekolah saya muntah-muntah dan pengsan tapi sekarang Alhamdulillah, dah OK.

"Setiap hari diambil da-



Pelajar masih memakai topeng muka sebagai langkah berjaga-jaga, semalam.



Sesi persekolahan bermula semalam selepas dua minggu ditutup.

rah beberapa kali lepas itu saya kena kuarantin di hospital," katanya.

Nur Syafiqah yang tinggal di Taman Kota Masai antara enam pelajar SMK Pasir Gudang dirawat di hospital ketika insiden pencemaran kimia di Sungai Kim Kim meletus.

Seseorang lagi pelajar Tingkatan 6, Nurul Nasuha Mohd Amni Samni, 19, berkata, meskipun gembira dapat kembali meneruskan sesi persekolahan, namun turut bimbang dengan silibus yang tergendala selama seminggu.

"Memang saya gembira dapat ke sekolah semula tapi risau juga sebab masa di hospital dan beberapa selepas menerima rawatan saya tak dapat ulang kaji pelajaran.



NUR SYAFIQA



NURUL NASUHA



ROSRINA

"Tapi saya sempat gunakan masa cuti untuk siapkan kerja kursus dan cikgu pun ada buat kelas tambahan sehari minggu ini untuk pembentangan kerja kursus kami," katanya.

Sebelum ini, Nasuha yang tinggal di Taman Pasir Putih dimasukkan ke

Hospital Sultanah Aminah selepas tidak sedarkan diri di sekolah.

"Saya memang dah rasa sakit kepala beberapa hari sebelumnya tapi saya fikir sakit kepala biasa. Tapi 13 Mac itu, saya sesak nafas dan dimasukkan ke bilik kuarantin dengan lebih 20 kawan-kawan lain yang

sakit sama.

"Selepas itu saya dah tak sedarkan diri dan sedar apabila dimandikan di hospital. Saya masuk wad dua hari," katanya.

Rata-rata pelajar lain yang ditemui turut menyatakan perkara sama.

Sementara itu, Ketua Unit Hal Ehwal Murid

(HEM) Tingkatan 6, Rosrina Bachok berkata, sebagai guru, beliau akui bimbang dengan silibus pelajar yang tergendala, namun yakin pelajar-pelajarnya dapat mengejar.

"Memang bimbang tapi kita sebagai guru guna pelbagai kaedah untuk sampaikan sesi pembelajaran dan pengajaran itu walaupun melalui aplikasi WhatsApp.

"Saya ada berhubung dengan pelajar melalui WhatsApp untuk mereka ulangkaji subjek berkaitan dan di kelas kita akan ulang lagi cuma dalam kadar lebih cepat.

"Saya rasa guru lain juga guna kaedah sama. Sebab kita pun tak sangka kan cuti ini bersambung-sambung," katanya.



LAMPIRAN 18  
THE STAR (NATION): MUKA SURAT 2  
TARIKH: 1 APRIL 2019 (ISNIN)

## Fuziah: Lynas project a threat to villagers' health

**KUALA LUMPUR:** Kuantan MP Fuziah Salleh has lashed out at the Lynas project in Gebeng, Kuantan, saying it could affect villagers living nearby.

Fuziah claimed that after just five years of operations and dumping of radioactive waste on site, as well as the scheduled waste amounting to 1.5 million tonnes and the groundwater beneath, the site was

already contaminated with heavy metals.

"This will have an effect on the villagers living around Gebeng, some of whom are still dependent on tube wells for their daily water use.

"It will also pollute the waterways around Gebeng," she said in a statement.

Fuziah, who is also Deputy Min-

ister in the Prime Minister's Department, also said many people had misconstrued the issue, especially radioactive waste management.

"It is easy to fall for the low-level radiation narrative.

"Lynas has always been silent on the long life - 14 billion years - of thorium in the radioactive waste.

"Unfortunately, many people in

the government also do not comprehend the real pertinent waste management issue.

"They are convinced by the narratives imparted to the public," she added.

Fuziah said they welcomed foreign direct investment except for Lynas.

"However, industries that pollute and think they are above the law

are not welcome in Kuantan and Pahang," she said.

On March 24, Lynas Malaysia Radiation Safety general manager Prof Dr Ismail Bahari said there was no basis to claims that Lynas Advanced Materials Plant in Gebeng could cause a chemical waste contamination incident similar to that in Pasir Gudang, Johor. — Bernama

LAMPIRAN 19  
THE STAR (NATION): MUKA SURAT 2  
TARIKH: 1 APRIL 2019 (ISNIN)

# Stringent SOPs proposed

New draft rules for bauxite mining emphasise stricter enforcement

By ONG HAN SEAN  
hansean@thestar.com.my

**KUANTAN:** A stringent set of standard operating procedures (SOPs) have been proposed for the resumption of bauxite mining in Pahang following the end of a moratorium spanning three years on the activity.

Under the new draft regulations, the minimum condition for a mining lease or proprietary mining lease application must cover an area of at least 20ha, irrespective of it being an individual lot or combination of adjacent lots.

Only applicants competent in technical and financial capabilities would be considered, and there must be a permanent mining engineer and safety, occupational health and environment officer on site.

"Financially, they must be able to prepare the capital and equipment suitable for the proposed mining method, and provide public liability insurance of up to RM1mil," the draft SOP uploaded on the Water, Land and Natural Resources Ministry website stated.

The comprehensive draft SOP covers mining rights application planning, bauxite mining site management, stockpile and port management, transportation and enforcement methods, and exportation procedures.

It also stated that all new and existing mining and stockpile sites must obtain approved environmental impact assessment, which must contain health, social and traffic impact assessments.

A rehabilitation plan must also be submitted for approval by the



**Subject to changes:**  
A former bauxite mining site in Bukit Goh, Kuantan.

state mineral resources committee before any activity can begin.

The federal government ordered a halt to all bauxite mining on Jan 15, 2016, to address concerns about pollution, lack of regulation and excessive extraction by the operators.

Indiscriminate and largely unregulated bauxite mining activities caused rivers and sea water near Pantai Balok and Pantai Batu Hitam to turn "red" during heavy rainfall.

After months of public outcry, the then Natural Resources and Environment Ministry announced what was first a three-month moratorium on bauxite mining to get things under control and clean up the state.

The temporary ban was then extended a few times to enable all bauxite that had been extracted to

be exported and for the clean-up of all the stockpiling areas.

At the time, it was revealed that there were still about 5.4 million tonnes of bauxite stockpiled outside of Kuantan Port, with about 2.3 million tonnes at mining sites, 1.8 million tonnes in Felda areas and 1.3 million tonnes in Gebeng.

On pollution control, the draft SOP stated that operators would be required to implement environmental pollution mitigation measures at mining sites.

After mining, bauxite ore from mines located 5km from Kuantan Port must be stored in a centralised stockpile before it can be sent to the port for export.

There will be no stockpiles within the port area except for

transit purposes.

The operations procedure at centralised stockpile sites was to ensure that the bauxite was received from legitimate mines and to identify transport lorries that had registered with the Pahang Lands and Mines Office.

Strict environmental pollution control measures such as netting, silt traps and washing bays must be installed at the stockpile sites.

On bauxite export, the draft SOP stated that the monthly capacity of bauxite to be handled by the Kuantan Port would be set at 600,000 tonnes.

A public hearing on the draft SOP is scheduled to be held at Dewan Jubli Perak Sultan Haji Ahmad Shah here on April 14.



LAMPIRAN 20  
THE STAR (NATION): MUKA SURAT 2  
TARIKH: 1 APRIL 2019 (ISNIN)

**Bauxite miners urged to wait a bit longer to ensure smooth operations**

By JO TIMBUONG  
jo.timbuong@thestar.com.my

**PETALING JAYA:** Bauxite mining companies can afford to wait "a little longer" for the final list of standard operating procedures (SOPs) if they do not want their operations to be affected again, according to a senior official.

Pahang Mineral Operators Association vice-president Datuk Yap Soon Huat said it would be in the best interest of all to agree on the SOP rather than have public complaints resulting in disruptions.

"It's better to take the time and

properly agree on the SOP. The moratorium was implemented for three years, so what is another one or two-month wait?" he said.

Although the operators risked incurring losses due to delays, Yap described such risks as part and parcel of the business.

"You win some, you lose some," he said, urging all stakeholders to give their views at the public hearing on the draft SOP scheduled for April 14.

Yap said the public hearing was the right thing to do as it would allow everyone to agree on fair terms.

"We support what the government is doing, especially when it concerns the environment, so we want to take this chance to get the SOP right," he said.

Malaysian Nature Society president Prof Dr Ahmad Ismail hoped the operators would have enough expertise, facilities and monitoring systems to follow the SOP and conduct environmental impact assessments at their sites.

"Monitoring and enforcement by the authorities are also important and enforcement personnel must ensure that they are equipped with the right knowledge, skills and

integrity to handle the job," he said.

Ahmad said the onus was also on the public to educate themselves on the mining processes and toxic effects they might have in order to take precautions.

"The government should reveal past experiences when it comes to bauxite mining, not to scare the public but to encourage them to help the authorities to monitor the situation.

"We cannot wait for another disaster to happen," he said.

Bauxite is a sedimentary rock that is high in aluminium content and is the world's main source

of aluminium.

Bauxite deposits found closer to the surface are extracted using shallow, open-cut mining through open-pit methods, while those found deeper underground require underground mining methods.

However, unscrupulous mining methods can have a detrimental effect on the environment.

Neglectful acts can cause air pollution due to the dust from the mines, which can also affect drinking water sources if such methods cause harmful elements such as arsenic and mercury to leach into them.

LAMPIRAN 21  
THE STAR (NATION): MUKA SURAT 2  
TARIKH: 1 APRIL 2019 (ISNIN)

## Activist: Draft a step in the right direction

**KUANTAN:** The proposed standard operating procedures (SOP) for bauxite mining have been lauded by an activist who has been waging a long campaign against its side effects.

Gerakan Rakyat Hentikan Pencemaran Bauksit (Geram) chairman Ali Akbar Othman said from what he had read of the draft, there appeared to be improvements.

"It covers everything related to bauxite mining, from licensing to export. I will say it is positive.

"It is a good move on the part of the government and it shows that our complaints have at least been heard. After so long, an SOP has been published," he said.

Ali Akbar said he would scrutinise the 174-page SOP in detail in order to raise questions at the public hearing scheduled here on April 14, and urged Kuantan residents to register for the event.

The Water, Land and Natural Resources Ministry explained in the draft SOP that engagements were held with related ministries, departments and agencies, including workshops in 2015 and 2016.

Another workshop was held from Oct 24 to 25 last year, which helped come up with improvements to be implemented in the chain of bauxite mining activities.

Felda Bukit Goh Village Community Management Council chief Jefri Salim said he would reserve his comments until after he has gone through the SOP.

Details on the SOP and public hearing registration are available at [tinyurl.com/bauksit](http://tinyurl.com/bauksit)



**LAMPIRAN 22**  
**UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 5**  
**TARIKH: 1 APRIL 2019 (ISNIN)**

## Lynas jejas penduduk Gebeng – Fuziah

**KUALA LUMPUR 31 Mac** - Projek Lynas di Gebeng, Kuantan, Pahang menjejaskan penduduk kampung yang tinggal berhampiran, kata Ahli Parlimen Kuantan, Fuziah Salleh.

Beliau berkata, hanya selepas lima tahun beroperasi, pembuangan sisa radioaktif di tapak serta sisa berjadual kini berjumlah 1.5 juta tan metrik dan air bawah tanah di bawah Lynas sudah terce-

mar dengan logam berat.

“Ini akan memberi kesan kepada penduduk kampung yang tinggal di sekitar Gebeng, yang sebahagiannya masih bergantung kepada telaga tiub untuk kegunaan air harian mereka. Ia juga akan mencemarkan saluran air di sekitar Gebeng,” katanya dalam satu kenyataan, di sini hari ini.

Fuziah yang juga Timbalan

Menteri di Jabatan Perdana Menteri berkata, isu berkenaan dengan Lynas biasanya disalah faham oleh ramai orang, terutamanya berkaitan dengan pengurusan sisa khususnya dengan sisa radioaktif.

“Lynas bijak dalam strategi menyampaikan mesej mereka di mana agak mudah terpedaya dengan pernyataan mereka tentang tahap radiasi yang rendah.

Lynas sentiasa membisu mengenai thorium dalam sisa radioaktif mereka yang mempunyai jangka hayat yang sangat lama sehingga mencapai 14 bilion tahun.

“Tetapi sayang sekali, ramai di dalam kerajaan juga tidak memahami isu pengurusan sisa yang betul dan yakin dengan cerita Lynas yang juga disampaikan kepada orang ramai,” katanya. - BERNAMA

**LAMPIRAN 23**  
**UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 5**  
**TARIKH: 1 APRIL 2019 (ISNIN)**

## Kehadiran 90 peratus pelajar di sekolah Pasir Gudang

**PASIR GUDANG 31 Mac** - Pembukaan semula sesi persekolahan di 111 buah sekolah di daerah ini yang ditutup akibat pencemaran toksik di Sungai Kim Kim sejak 13 Mac lalu berjalan lancar dengan jumlah kehadiran pelajar yang memberangsangkan.

Tinjauan *Utusan Malaysia* mendapati, sesi persekolahan berjalan seperti biasa namun terdapat sekolah yang masih mengarahkan pelajar menggunakan penutup mulut dan hidung sebagai langkah berjaga-jaga.

Pengerusi Jawatankuasa Hal Ehwal Agama Islam dan Pendidikan negeri, Aminolhuda Hassan dan Timbalan Pengarah Pendidikan negeri, Azman Adnan juga turun padang meninjau keadaan pelajar di Sekolah Menengah Kebangsaan (SMK) Pasir Gudang 2 di sini.

Menurutnya, kehadiran pelajar dari 111 buah sekolah di sini mencapai tahap 90 peratus.



**AMINOLHUDA HASSAN (bersongkok)** meninjau keadaan pelajar di Sekolah Menengah Kebangsaan Pasir Gudang 2, Johor, semalam selepas sekolah dibuka semula akibat ditutup berikutan pencemaran toksik di Sungai Kim Kim baru-baru ini.

Dalam pada itu, seramai 355 pelajar yang terjejas akibat pencemaran toksik sudah menghantar permohonan mendapatkan pampasan Takaful

Pelajar Sekolah Malaysia.

Aminolhuda berkata, mereka layak menerima pampasan sebanyak RM25 sehari sepanjang menerima rawatan di hospital.

Ditanya sama ada kerajaan negeri akan membayar pampasan kepada pelajar terabit, beliau berkata, perkara itu masih belum diputuskan.



LAMPIRAN 24  
MINGGUAN MALAYSIA (DALAM NEGERI): MUKA SURAT 66  
TARIKH: 31 MAC 2019 (AHAD)

# Caj baharu beg plastik akan dimuktamad

■ GEORGETOWN 30 MAC

**K**ERAJAAN Pulau Pinang akan mengadakan perbincangan dengan pihak berkepentingan terlebih dahulu sebelum pelaksanaan cadangan menaikkan caj beg plastik daripada 20 sen sekarang kepada 50 sen seunit.

Ketua Menteri, Chow Kon Yeow berkata, cadangan itu dibincangkan dalam mesyuarat Exco kerajaan negeri semalam dan beliau mengarahkan lebih banyak penglibatan pihak berkepentingan untuk mendapatkan maklum balas daripada rakyat sebelum dimuktamadkan.

“Di Pulau Pinang, kita sudah ada dasar *no free plastic* bag dengan caj 20 sen dikenakan atas pengguna yang masih ingin menggunakan beg plastik. Kita mendapati walaupun ada caj sejak ia dimulakan pada 2009, masih ada pengguna rela membayar untuk mendapatkan beg plastik.

“Sejak 10 tahun pelaksanaannya, kira-kira RM8 juta ke RM9 juta kutipan caj beg plastik direkodkan. Pungutan yang begitu banyak ini menunjukkan ia masih tidak menghindar pengguna daripada mahu plastik beg dengan membayar 20 sen,” katanya pada sidang media selepas merasmikan persidangan Inspiring Future Leaders an-



Apa yang kita lakukan cuma satu tindakan yang kecil ke arah memastikan alam sekitar kita tidak tercemar lagi oleh pembuangan sisa plastik secara tidak bertanggungjawab.

**CHOW KON YEOW**

juran Persatuan Peniaga Wanita Pulau Pinang (PWCC) di sini hari ini.

Baru-baru ini, Pengerusi Jawatankuasa Kebajikan, Masyarakat Penyayang dan Alam Sekitar negeri, Phee Boon Poh berkata, kerajaan negeri menimbang untuk menaikkan caj beg plastik kepada 50 sen seunit selepas kadar se-

masa didapati kurang berkesan dalam usaha mengurangkan penggunaan beg plastik.

Bagaimanapun, Kon Yeow berkata, sejak pelaksanaan caj 20 sen itu, 50 peratus pengguna membawa beg sendiri ketika membeli belah sekaligus menunjukkan kesedaran pengguna untuk memelihara alam sekitar.

Menurutnya, buat masa ini pelaksanaan caj beg plastik 20 sen itu hanya dilaksanakan di semua pasar raya di negeri ini.

“Apa yang kita lakukan cuma satu tindakan yang kecil ke arah memastikan alam sekitar kita tidak tercemar lagi oleh pembuangan sisa plastik secara tidak bertanggungjawab.

“Di samping itu, bukan ini sahaja. Inisiatif *no single use plastic* juga perlu dipergiatkan lagi. Banyak perkara yang boleh dan perlu dilakukan (untuk memelihara alam sekitar). Usaha ini memerlukan penglibatan semua pihak,” katanya.

Ditanya sama ada kerajaan negeri akan mengharamkan penggunaan plastik secara sepenuhnya di negeri ini, Kon Yeow berkata, perkara itu juga akan dibincangkan bersama pihak berkepentingan.

“Masanya akan tiba, kita akan lakukan secara progresif. Lama kelamaan kita akan melihat gaya hidup baru,” katanya. - BERNAMA



LAMPIRAN 25  
 THE STAR (NATION): MUKA SURAT 11  
 TARIKH: 31 MAC 2019 (AHAD)

By ERIC QUAH  
 ericq@thestar.com.my

# GREEN ENERGY OPTIONS

TENAGA Nasional Berhad's (TNB) green solutions were showcased at the recent Asean Super Mechanical & Electrical Engineering Show at the Malaysian International Trade and Exhibitions Centre (Mitec) in Kuala Lumpur.

Featuring some of its subsidiaries' sustainable and renewable businesses, one of them was GSparx Sdn Bhd – a green energy solution provider that offers end-to-end solutions with zero-upfront investments from its clients. It offers consultation, installation, maintenance and monitoring at no cost at all.

According to head of marketing Nor Ziha Zainol Abidin, GSparx's present focus is on solar PV rooftops, while future business plans may include battery storage solutions and more.

"We have packages for residential as well as for commercial and industrial premises. We also work with housing developers to make their units solar-ready," she said.

A standard residential package, for example, would have a system offering from 2kW to 12kW of energy, at a package price starting from RM13,900, she added.

Customers with bills higher than RM600 could experience savings even after paying for the solar system. For customers with lower bills, savings could be enjoyed immediately with cash or outright purchase option. Simple payback for such customers could be between nine and 12 years.

Nor Ziha said payment packages include cash payment, credit card, via leasing (where property own-



Umar explaining to Works Minister Baru Bian (second from right) how the solar roof tiles work.



'A district cooling plant with thermal energy storage is able to reduce electricity cost,' said Rizuan.

ers own the system after paying a fixed monthly amount for some years), via a bank loan or by GSparx's solar power purchase agreement (SPPA). Details are on [www.gsparx.com](http://www.gsparx.com), or email to [enquiry@gsparx.com](mailto:enquiry@gsparx.com).

Similar to the PV panels provided by GSparx are solar roof tiles, a premium alternative that is actually a roof with a solar thin film built in.

Business development chief Umar Ridzuan Hawari of Tenaga Switchgear said: "This provides two functions – the usual protection against external environmen-

tal elements while also generating power."

Umar added that the tiles are packaged with a home energy storage system – a liquid-based battery system like the voltage-regulated lead acid battery which is safer and will not heat up much.

Those who are interested can visit the sandbox project Maverick in Cyberjaya, or call 03-6140 6520 for details, email [sales@mytsg.com.my](mailto:sales@mytsg.com.my) or visit [www.mytsg.com.my](http://www.mytsg.com.my).

Another green subsidiary is TNB Engineering Corporation Sdn Bhd (TNEC) which concentrates on the district cooling system as well as

large-scale solar farm setup.

Acting head of Project Development and Implementation, Rizuan Eusoff, said: "Basically our major businesses are district cooling systems plants and large-scale solar installations.

"District cooling plants, like the one at KLIA2, is a centralised air conditioning plant that supplies chilled water to the whole KLIA2 airport development. A district cooling plant with thermal energy storage is able to reduce the electricity cost compared to conventional plant."

TNEC provides the full range of

services related to DCS, from initial concept or business viability studies to the investment, engineering, procurement and construction (EPC) contract, project financing, ownership as well as comprehensive operations and maintenance.

He added that the company has completed the construction of two large-scale solar farms last year, the 50MWac capacity TNB Sepang Solar in Kuala Langat, Selangor, and the 29MWac capacity Leader Solar Energy in Sungai Petani, Kedah. A new 30MWac solar farm in Bukit Selambau, Kedah, is under construction and shall be completed by mid-2020.

For more on TNEC go to [www.tnec.com.my](http://www.tnec.com.my) or call 03-7958 2121.



## LAMPIRAN 26 THE NEW SUNDAY TIMES: MUKA SURAT 4 TARIKH: 31 MAC 2019 (AHAD)



Under the new standard operating procedure, a 700m conveyor system will transport bauxite directly to the ship. PIC COURTESY OF KUANTAN PORT

### Emphasis on cleanliness, safety and environment

**KUANTAN:** A strict bauxite handling standard operating procedure (SOP) in Kuantan Port awaits bauxite operators as the port authorities want to ensure that there will be no more slip-ups.

Kuantan Port chief operating officer Mazlim Husin said the new SOP would emphasise cleanliness, safety and the environment.

He said bauxite, which was stored in two central warehouses (one covered and another opened) near multipurpose berths 5 and 6, would be allowed to be moved only when the port authorities received the approved permit, delivery order

and shipping call number.

"Bauxite from the central warehouses will be loaded into cargo vessels using two methods, namely the 700m-long conveyor belt system which ensures a better environment control system.

"It was designed solely for bauxite handling and does not cause spillage.

"The second method is by using lorries with bucket from the roofed warehouse to the vessel, which is about 150m away.

"An operator hired by the port authorities will provide the lorries to take the mineral from the warehouse to the vessel."

He said the central warehouse,

which uses the conveyor, had the capacity to store up to 400,000 tonnes of bauxite, while the warehouse deploying the lorries could store 200,000 tonnes of the mineral.

Mazlim said the port had built a perimeter drain, retention pond and treatment plant, and provided a washing bay for the lorries to minimise dirt and pollution.

"Two units of manually handled power sweepers will be used to clean and clear bauxite debris at the berth to avoid the spillage from entering the sea.

"We have upgraded the cleaning method so that it will use minimum water and not cause the sea to turn red due to the spillage."

He said the conveyor system had the capacity to transfer 2,000 tonnes of bauxite per hour into the vessel while the lorries could load up to 9,000 tonnes into the vessel a day.

On the safety aspects, he said lorries transporting bauxite mineral from the stockpiles from outside Kuantan Port would be allowed to enter the warehouse area only if operators met the stipulated requirements.

"Lorries entering the port compound must have the bucket covered, do not overload, adhere to all safety features, including brake lights, and provide related documents.

"Operators will have to adhere

to the yard cycle as we do not want them to store the minerals in the warehouse for a long period without knowing when the vessels will come to transport them out.

"Each shipper has about 10 days to transport the ore out of the warehouse as we want the yard management to be efficient and work according to schedule to ensure a smooth process."

Mazlim said with the new SOP in place, he hoped that the mining operators would cooperate to ensure bauxite export activities could be carried out smoothly from Kuantan Port without setbacks.



LAMPIRAN 27  
 BERITA HARIAN (ALAM SEKITAR): MUKA SURAT 17  
 TARIKH: 31 MAC 2019 (AHAD)

# Tak laksana cadangan dalam masa terdekat

**Georgetown:** Kerajaan negeri menjelaskan cadangan untuk menaikkan caj beg plastik kepada 50 sen tidak akan dilaksanakan dalam tempoh terdekat.

Ketua Menteri, Chow Kon Yeow, berkata cadangan itu akan dibincangkan bersama pihak berkenaan terlebih dahulu, sebelum sebarang keputusan dimuktamadkan.

Katanya, ia berikutan jumlah kutipan caj beg plastik masih mencatatkan jumlah yang tinggi, walaupun pelaksanaan program 'tiada beg plastik percuma' diperkenalkan sejak 10 tahun lalu.

"Kutipan caj beg plastik direkodkan antara RM8 juta hingga RM9 juta, walaupun pemerhatian kerajaan negeri mendapati penggunaan beg plastik berkurangan hingga 50 peratus sejak ia diperkenalkan.

"Kutipan ini masih tinggi dan kita yakin orang ramai sanggup membayar 20 sen untuk penggunaan beg plastik dan ini bertentangan dengan tujuan utama pengenalan program berkenaan.

"Sebaliknya, kita mahu mendidik orang ramai supaya kurang bergantung kepada penggunaan beg plastik untuk menjamin kelestarian alam sekitar," katanya pada sidang media di sini, semalam.

**Usaha kurangkan penggunaan**  
 Khamis lalu, kerajaan negeri ber-cadang untuk menaikkan caj beg plastik daripada 20 sen kepada 50 sen sebagai usaha mengurangkan penggunaannya.

Cadangan sama turut dibangkitkan pada sidang Dewan Undangan Negeri (DUN) Pulau Pinang, pada 15 November lalu.

Program 'tiada beg plastik percuma' diperkenalkan kerajaan negeri pada 2009, sekali gus menyaksikan Pulau Pinang sebagai negeri pertama yang mengarahkan peniaga tidak membekalkan beg plastik kepada pelanggan secara percuma.

Kon Yeow berkata, caj itu hanya diperkenalkan di semua pasar raya di Pulau Pinang dengan keselu-

ruhan kutipan disalurkan bagi pelaksanaan program Agenda Ekonomi Saksama (AES) negeri.

"Pelaksanaan kutipan caj beg plastik tidak merangkumi peniaga yang beroperasi di luar pasar raya tak perlu mengenakan caj ini kepada pengguna.

**Caj hanya di pasar raya**

"Kita pun faham ada sesetengah tempat dan penggunaan tak boleh dielakkan seperti di pasar. Oleh sebab itu kita hanya kutip caj ini di pasar raya," katanya.

Ditanya kesediaan kerajaan negeri mengharankan penggunaan beg plastik di pasar raya, Kon Yeow berkata cadangan itu juga akan dibincangkan bersama pihak berkaitan supaya tidak berlaku penindasan.

"Bagaimanapun, caj ini akan terbatal secara automatik jika operator pasar raya bertukar kepada penggunaan beg kertas sebagai alternatif kepada plastik," katanya.

[FOTO MIKAIL ONG/BH]



Kon Yeow merasmikan majlis Inspiring Future Leaders Conference di Georgetown, semalam.

LAMPIRAN 28  
BERITA HARIAN (ALAM SEKITAR): MUKA SURAT 17  
TARIKH: 31 MAC 2019 (AHAD)

# SOP eksport bauksit ketat elak pencemaran

➔ Kuantan Port perkenal garis panduan baharu pastikan bahan mineral diurus secara berkesan

Oleh Abdul Razak Raaff dan T N Alagesh  
cnews@nstp.com.my

► Kuantan

**K**uantan Port memperkenalkan prosedur operasi standard (SOP) yang ketat dalam pengendalian pengangkutan bauksit, bagi memastikan pengurusan bahan mineral itu dilakukan dengan berkesan.

Ketua Pegawai Operasinya, Mazlim Husin, berkata pengendalian eksport bauksit hanya dilakukan menerusi dua dermaga pelbagai guna, iaitu dermaga 5 dan 6.

"SOP baharu yang disediakan selepas kerajaan memulakan moratorium terhadap aktiviti perlombongan bauksit tiga tahun lalu, mengutamakan aspek kebersihan,

keselamatan dan alam sekitar," katanya kepada NSTP.

Beliau menjelaskan, bauksit yang ada di tempat penyimpanan sementara terbuka dan berbumbung berhampiran dermaga 5 dan 6, hanya boleh dikeluarkan selepas disahkan mempunyai permit eksport (AP), tempahan penghantaran dan nombor daftar masuk kapal.

**Dua kaedah pengendalian bauksit**

Katanya, ada dua kaedah pengendalian bauksit ke dalam kapal kargo, iaitu menggunakan sistem tali sawat penghantar sepanjang 700 meter dari tempat simpanan sementara bauksit terus ke kapal.

Ini adalah projek kerjasama Kuantan Port dengan sebuah syarikat tempatan.

Satu lagi kaedah ialah menggunakan bekas yang dibawa lori berulang alik dari pusat simpanan sementara berbumbung ke kapal yang jaraknya hanya 150 meter.

"Kita juga membina sistem perparitan, kolam tadahan dan tempat basuhan untuk lori yang keluar masuk ke tempat penyimpanan sementara berkenaan ke kapal," katanya.

Menerusi SOP baharu itu, Kuantan Port membenarkan hanya

45,000 tan bauksit dikeluarkan dari tempat simpanan sementara ke kapal-kargo pada satu-satu masa, dengan mesin tali sawat penghantar berkenaan mempunyai kemampuan kapasiti mengangkut 2,000 tan bauksit sejam, manakala 9,000 tan bauksit menggunakan bekas dibawa lori yang berulang alik setiap hari.

Operator pelabuhan itu juga menaik taraf kaedah pembersihan kotoran bauksit di dermaga itu, ketika urusan pengendalian bahan mineral berkenaan ke dalam kapal kargo, terutama menggunakan bekas yang dibawa dalam lori akan dibersihkan menggunakan mesin *power sweeper* berkuasa tinggi yang akan menyedut kotoran berkenaan sekali gus mengelak daripada masuk ke dalam air.

"Mengetahui aspek keselamatan, lori dari luar yang membawa bauksit hanya akan dibenarkan masuk ke pusat simpanan sementara jika mematuhi peraturan seperti bahan mineral itu ditutup rapi, muatan tidak melebihi had dan mempunyai aspek keselamatan seperti brek, lampu yang baik.

"Proses pengendalian bauksit bagi setiap kapal kargo ialah dua atau tiga hari dan kita sentiasa pastikan ia dilakukan dengan pantas, bersih dan selamat," katanya.



Mazlim menunjukkan pelan pembangunan Pelabuhan Kuantan ketika temubual khas di Kuantan, baru-baru ini.

Mazlim memberi jaminan pengendalian bauksit di tempat simpanan sementara akan dilaksanakan secara pantas, bersih, selamat serta mengutamakan kepentingan alam sekitar, sekali gus meningkatkan imej sebagai antara operator pelabuhan terbaik di negara ini.

**Beri jaminan tiada lagi fenomena air laut merah**

Beliau juga memberi jaminan tiada lagi insiden fenomena air laut menjadi kemerah-merahan seperti yang berlaku pada Disember 2015, dikatakan akibat perlombongan bauksit, dalam pengendalian bahan mineral itu di pelabuhan pada masa akan datang.

Beliau berkata, pihaknya tidak mahu 'pisang berbuah dua kali' dalam mengendalikan eksport bauksit menerusi pelabuhan itu,

selepas kerajaan mengumumkan tempoh moratorium aktiviti perlombongan dan pengeksportan bauksit sejak Januari 2016 dan berakhir hari ini.

"Sebagai operator pelabuhan, Kuantan Port tidak akan mengambil mudah pengendalian pengangkutan bauksit, sebaliknya mengadakan pelbagai langkah kawalan ketat menerusi SOP baharu yang sedang dilaksanakan," katanya.

Mengulas lanjut, Mazlim berkata, pengusaha bauksit sedang berusaha membawa keluar 207,000 tan bahan mineral itu yang berada di tempat simpanan sementara dalam pelabuhan.

"Pemilik bauksit perlu menguruskan sendiri kemasukan kapal kargo untuk mengangkut bahan mineral itu, bukannya Kuantan Port," katanya.



LAMPIRAN 29  
THE STAR (NATION): MUKA SURAT 5  
TARIKH: 31 MAC 2019 (AHAD)

## Two-storey rubbish pile causing a stink

**KUALA LUMPUR:** A massive dumping site that has been operating for more than 10 years in Taman Maluri next to Sungai Kerayong has a rubbish pile that's about two storeys high.

Residents in the vicinity called reporters to expose the site, urging authorities to clamp down on the illegal activity on government land.

Speaking on condition of anonymity due to safety concerns, a resident in his 60s discovered that several truckloads of domestic waste would be dumped here.

"The rubbish was almost the same height as the trees nearby and it can be clearly seen from the Sungai Besi Expressway.

"I complained to Kuala Lumpur City Hall about this but no action has been taken. About 30 lorries come by daily and the rubbish emits a foul stench when it rains," he



**Raising a stink:** Lorries next to the rubbish pile in Taman Maluri which was visible from the Sungai Besi Expressway.

said, adding that thugs had warned him to drop the issue when he made a complaint to the authorities three years ago.

Hoarding around the site and the nearby overgrowth effectively hid the dumping site from view from

the main road.

A truck filled with rubbish was seen driving into the area while the press conference was taking place.

Another resident Too Hing Yeap, 53, said private contractors dump their rubbish in this vacant land

because it is cheaper than dumping it at Bukit Tagar landfill.

Watch the video  
[thestartv.com](http://thestartv.com)





LAMPIRAN 30  
THE STAR (NATION): MUKA SURAT 5  
TARIKH: 31 MAC 2019 (AHAD)

## 30 garbage truck drivers caught red-handed dumping waste

**MELAKA:** Thirty garbage truck drivers could not escape the long arm of the law while trying to discard waste materials into rivers and open spaces since end of last year.

Housing, Local Government and Environment Committee chairman Datuk Tey Kok Kiew said the truck drivers were slapped with hefty compounds after they were caught red-handed on-site.

"It's thanks to the hardworking local councillors for keeping watch over indiscriminate disposals of rubbish at their respective areas," he said in an interview.

Tey said the state was committed to preserving the environment and would not tolerate any attempts to pollute rivers.

He said Solid Waste Corporation (SWCorp) had taken action against illegal dumping.

"Usually, truck drivers hired by individual companies would dump the garbage in a secluded area to save the extra cost of sending it to designated landfills," he said.

Those caught dumping rubbish in non-designated sites will be prosecuted under Section 71(2) of the Solid Waste and Public Cleansing Management Act 2007 (Act 672) that carries a fine of RM10,000 to RM100,000 or a jail term of six

months to five years.

Tey also said the state would start discouraging the use of plastic straws by next month.

"Plastic straws will no longer be given out automatically to diners.

"They will only be provided upon request and consumers are encouraged to bring along reusable straws," he added.

As for the state's ongoing ban on plastic bags, which was first imple-

mented in 2015, it would be intensified by covering more malls, convenience stores and groceries.

"Our landfills and drains are filled with plastic bags and this doesn't bode well for our ambitious plan to be a fully green state," he said.

Tey added that the supply of biodegradable plastic bags and food containers would be increased, especially at shops and eateries.

# LAMPIRAN 31 THE STAR (COVER STORY): MUKA SURAT 6 TARIKH: 31 MAC 2019 (AHAD)

## Bringing the Arts and Science

Despite ongoing effort, interest in Science, Technology, Engineering and Mathematics (STEM) is starting to drop. Is STREAM then, which includes the components of Arts and Reading, the solution? Education Minister Dr Maszlee Malik speaks to *The Star* on his plans to merge the arts and sciences.

Stories by SANDHYA MENON  
educate@thestar.com.my

THE Education Ministry is in the early stages of studying the operating mechanisms to implement the streamless schools approach.

Dr Maszlee Malik said the ministry does not want Malaysian students to be categorised as Science or Arts students, any longer.

"The incorporation of reading, writing and arts into STEM will include a humanistic approach thus, making it relatable to students' daily routine.

"We hope to alter the negative perception (towards STEM), ultimately increasing interest in it," the Education Minister said.

There are two ways to merge science and arts, he explained.

"Firstly, (through) the usage of STREAM as an educational approach in teaching and learning.

"STREAM represents the fact that we need to produce holistic students in all disciplines, by integrating reading and arts into how we teach STEM, and integrating STEM concepts into how we teach other subjects.

"An example of the application of STREAM is through projects that involve inquiry and problem-based learning, where students work on interdisciplinary activities.

"Students would leverage on, and connect concepts and skills across STEM and non-STEM spectrum to solve problems," he shared.

Last month, Dr Maszlee said streamless schools are the way forward and that it was among the suggestions the ministry received from the National Education Policy review committee, or better known by its Malay acronym, JKDPN.

However, two weeks ago, he said only 44% of Malaysian students were in the STEM stream last year, as compared to 48% in 2012.

Dr Maszlee said this when delivering the keynote address at the Bett Asia Leadership Summit and Expo 2019 in Kuala Lumpur.

### A stronger curriculum

The ministry is deliberating on strengthening the current curriculum, Dr Maszlee said, to incorporate elements of arts and reading, such as aesthetic appreciation, design-thinking, and user experience.

JKDPN and the ministry's Curriculum Development Division are reviewing and studying the curriculum, he added.

"Our vision for (this) new curriculum is it allows students to develop holistically, not just in (their) technical knowledge of STEM, arts and culture, but also in terms of 21st century skills with values and ethics.

"Arts and culture is the cornerstone of human civilisation, resulting in progress just as much as Science and Maths.

"JKDPN is set to table their recommendations next month, and the ministry will deliberate further on the findings."

Dr Maszlee said the rec-

ommendations will cover preschool to post-graduate education.

He believes a head start in education during the early stages of childhood will change the trajectory of a child's life.

Currently, the ministry adopts an open certification approach in the SPM, which was implemented in 2000.

A circular was released in 2010 by the ministry, limiting the amount of subjects students can take for SPM to 10, with a maximum of two additional subjects.

Upper secondary students can choose a combination of subjects based on their interests, Dr Maszlee said, ranging from science, arts, accounts and commerce, while maintaining the combination of core subjects required for them to further their studies.

"Moving forward, all schools should allow students to select the combination of subjects they are interested in.

"There are guidelines to ensure students have the right prerequisites for further education.

"This freedom of choice is currently subjected to availability of subject teachers and time tabling."

### Including Arts and Reading into STEM

This is done through interdisciplinary projects.

Dr Maszlee said teachers are already

“STREAM represents the fact that we need to produce holistic students in all disciplines, by integrating reading and arts into how we teach STEM, and integrating STEM concepts into how we teach other subjects.”

Education Minister Dr Maszlee Malik

carrying out project, problem and inquiry-based learning in schools, where Maths and Science are taught in parallel with Arts and language skills.

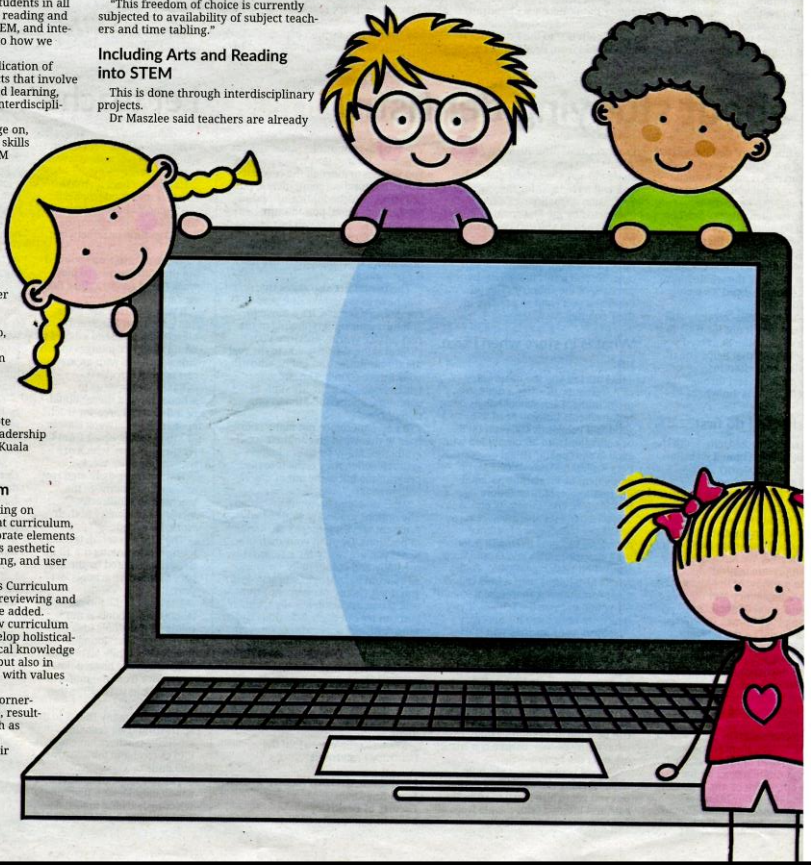
"This has practical benefits to teachers.

"Multiple learning outcomes across subjects can be achieved through these projects, while maximising student engagement, teaching 21st century skills and values.

"We are also focusing on including STEM into Arts and Reading, and other subjects.

"Elements such as environmental conservation, science and technology, as well as innovation are embedded throughout the curriculum, where teachers are supposed to contextualise what they teach," he said.

These concepts will be updated and strengthened in light of the Fourth



# LAMPIRAN 31 (SAMB.) THE STAR (COVER STORY): MUKA SURAT 7 TARIKH: 31 MAC 2019 (AHAD)

## es together

STEM) among students continue  
tion to this problem? Education Minister

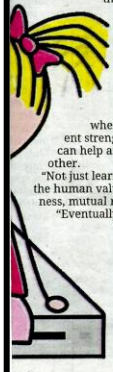


Dr Maszlee wants STEM to be taught and learnt through experiences.

Industrial Revolution. "We want our teachers, and ultimately our students to be aware of and comfortable with new-age concepts such as, blockchain, cloud computing or even artificial intelligence."

### Moving away from segmentation

Knowledge cannot be compartmentalised. Dr Maszlee said in the past, a large number of students were separated based on their abilities. "This system bred segmentation that disproportionately hurt students from disadvantaged backgrounds, such as the B40 (low-income) families. "We want to dispel the notion that just because one is in the science stream, they are not interested in the arts and humanities, and vice versa. "My vision for the education system is one where all students have a fair chance - to be in mixed classrooms where students of different strengths and weaknesses can help and support each other. "Not just learn technical skills, but the human values of love, happiness, mutual respect and empathy. "Eventually, once the idea of



STEM or STREAM for All becomes mainstream and implemented in the over 10,000 schools in our country, we will be able to see this turn into a reality," he added.

### Fun and experiential learning

Dr Maszlee wants STEM to be taught and learnt through experiences. He said the ministry is investing in providing opportunities for students to experience STEM by expanding extra-curricular activities, having more science fairs and competitions. "We are also prioritising the expansion of using STEM to teach STEM - where cheap technologies, such as virtual reality, augmented reality or online platforms can be brought into the classroom to spark wonder among our students," he said. STREAM ensures that STEM is taught in a fun and experiential way, Dr Maszlee explained. It helps students who are more inclined towards arts or humanities, to see the relevance of STEM in their lives, whether or not they actually pursue a STEM career, he shared. "It brings out the fun in STEM, through projects and hands-on activities where they have to design and express themselves through arts, reading and writing. "This is also the best opportunity to learn and apply values such as love, happiness and mutual respect." Citing a recent study by the Malaysian Science and Technology Information Centre on public awareness on science, technology and innovation (STI), Dr Maszlee said people's knowledge on STI is less than 50%. "Not putting our students into streams relates to our vision for STEM for the future, which is STEM4ALL. "We want all individuals to be able to appreciate and find relevance in STEM, regardless of whether they make a living in it."

A head-start in education in the early stages of childhood, will change the trajectory of a child's life. - 123rf.com



Prof Dzulkiifi believes the merging of Science and Arts will make students better people.



Dr Mazlan says streaming student reduces their exposure to the world.

## Education should not be segmented

STUDENTS who think more holistically will be PRODUCED if they are not streamed into Science or Arts, said Emeritus Prof Datuk Dr Mazlan Othman. Malaysia's first astrophysicist said streaming students reduces their exposure to the world. "This is wrong, she said. "When you look at the world, everything is inter-linked and that makes life rich. "To have an education where you get complete exposure, will give you more choices as you move forward," she added.



Noor Azimah says arts need not necessarily mean painting and drawing.

Dr Mazlan welcomes Dr Maszlee's call to go streamless, adding that education is one of the first things that need major reform. "Not just the curriculum, but the entire ecosystem of education and most importantly, how we are going to train our teachers to engage with students and assess them not only from exams but from different skills and talents. "It's not about having enough teachers to do (this), but it's about having the right teachers." The appreciation that Arts and Science should not be segmented is significant, said Asian Strategy and Leadership Institute Centre for Public Policy Studies chairman Tan Sri Ramon Navaratnam.



Ramon says the appreciation that Arts and Science should not be segmented is significant.

He said graduates, from school until university, should be well-rounded. "Everybody should have a chance to appreciate (the) arts (such as) human studies as well as the details of science. "As they advance, they (will) have a basic understanding of both areas which are interrelated, and then they can make up their mind when they enter pre-university," he added.

International Islamic University Malaysia rector Prof Tan Sri Dzulkiifi Abdul Razak said the movement of STEM to STREAM is important because it goes back to the spirit of education. "When education is spoken in terms of one discipline, it is then not education, said Prof Dzulkiifi. "Education is about training a person as a whole, and not part of the person. "STREAM is an acronym but behind it is the conversion of transdisciplinary (knowledge) and taking responsibility as an educated person," he said.



Tan says the ministry should implement a pilot project first.

Prof Dzulkiifi believes the merging of Science and Arts will make students better people, and welcomes the idea of moving into a holistic and integrated education system. "We need to move away from the government, universities and schools should take charge (of the implementation). "With more autonomy in hand, we need to take independent decisions, be responsible educators and ensure (the implementation) succeeds."

While the National Union of the Teaching Profession secretary general Harry Tan said the union supports Dr Maszlee's proposal, they urged the ministry to implement a pilot project first. "They should study the results before rolling out the programme. "This is a serious issue with many implications; stakeholders at all levels must be consulted to ensure a smooth implementation," he said. Parent Action Group for Education Malaysia (PAGE) chairman Datin Noor Azimah Abdul Rahim said Dr Maszlee's emphasis on the importance of 'reading' in STREAM is commendable.

"Reading is so crucial in education, and we have lost that culture. "Arts too, need not necessarily mean painting and drawing, it could be sports, playing a musical instrument, singing or performing on a stage. "This could be a more concerted and focused way of heading towards producing holistic students," she said. Noor Azimah, however, said this should not deter a student from pursuing pure Science or Arts. At the end of the day, one still needs to appreciate both elements to lead a holistic life, she added.





LAMPIRAN 32  
THE STAR (STAR METRO): MUKA SURAT 18  
TARIKH: 30 MAC 2019 (SABTU)

# Varsity promotes STEM through challenge



Students taking part in the STEM challenge at the UTAR campus in Kampar.

UNIVERSITI Tunku Abdul Rahman (UTAR) organised a Science, Technology, Engineering and Mathematics (STEM) challenge at its campus in Kampar.

The event, jointly organised by the university's Centre for Foundation Studies and Faculty of Engineering and Green Technology, is an initiative to encourage interest in STEM education among participants.

It also aims to expose students to STEM-related programmes and encourage interaction among students from various higher education institutions

in Perak.

Organising chairman Rachel Tham Jia-Hui said the nation was facing a shortage of students furthering their studies in the areas of STEM.

She said the percentage of students taking STEM subjects was declining at a rapid pace, thus the event was organised for students to learn more about STEM.

"Countries like the United States of America, Singapore and Germany have at least 30% of their workforce trained in STEM field, but Malaysia is lagging behind with less than 5%," she added.



LAMPIRAN 33  
THE STAR (NATION): MUKA SURAT 5  
TARIKH: 30 MAC 2019 (SABTU)

# Kedah govt on the hunt for poachers in Ulu Muda

By ARNOLD LOH  
arnold.loh@thestar.com.my

**ALOR SETAR:** The sign of poachers is unmistakable – tyre tracks of small four-wheel drive vehicles in the virgin jungle more than 15km from the nearest road across Muda Lake.

The Kedah government has vowed to launch a crackdown on the threat to wildlife there.

“We will send in forest rangers to inspect the abandoned logging trails that poachers are suspected of using,” said state Environment and Climate Change Committee chairman Simon Ooi.

Being twice the size of Singapore, Ooi said it was difficult for forest rangers to keep watch on every part of Ulu Muda.

“Our rangers patrol the jungle fringes 20 days a month, but they

can’t be everywhere at once.

“We rely on villagers to alert us if they know of poachers entering the jungle,” he said, adding that he would contact Earth Lodge in Ulu Muda for more information.

The press and environmentalists, who visited a pristine hot spring deep within Ulu Muda Forest Reserve, stumbled upon the fresh tracks while on a mission to highlight the urgency to protect the massive virgin jungle.

Drone pictures taken by *The Star* showed that the fresh tracks were made by a few small off-road vehicles, capable of snaking through the dense woods.

The tracks showed that they drove into the clearing and to the edge of the hot spring, which is also a salt lick that animals frequent, before turning back into the jungle.

Earlier this month, Water Watch Penang brought newsmen to Earth Lodge in the upper reaches of Muda Lake for three days to observe wildlife.

Earth Lodge chief executive officer Hymeir Kamarudin said poachers used decades-old ex-logging trails, overgrown with trees, to venture deep into the jungle.

When shown on a map where the tyre tracks were seen, Kedah Loggers Association president Amin Mokhtar confirmed that none of their member companies had any logging compartments near the region.

“Those trails are over 60 years old and in the protected area,” he added.

Amin said logging compartments on the fringes of Ulu Muda constituted 10,000ha or 7% of the entire forest reserve.



**Following the trail:** Newsmen and environmentalists observing tyre tracks made by poachers at a hot spring in Ulu Muda Forest Reserve.

LAMPIRAN 34  
 NEW STRAITS TIMES: MUKA SURAT 19  
 TARIKH: 30 MAC 2019 (SABTU)



*Tenaga Nasional Bhd (TNB) outgoing president and chief executive officer Datuk Seri Azman Mohd at an appreciation ceremony at the TNB headquarters in Bangsar, Kuala Lumpur, yesterday.*

#### 40 YEARS OF SERVICE

## TNB employees pay tribute to Azman

**KUALA LUMPUR:** Tenaga Nasional Bhd's (TNB) employees paid their tribute to outgoing president and chief executive officer (CEO) Datuk Seri Azman Mohd in an appreciation ceremony, here, yesterday.

They flooded the multipurpose hall of TNB headquarters in Bangsar, here, to express their gratitude for the services that

Azman rendered since joining then-Lembaga Letrik Negara as assistant engineer in Temerloh on October 3, 1979.

Azman, 62, who was appointed CEO on July 1m 2012, left a strong legacy to more than 35,000 employees through various company initiatives, which enabled TNB to remain resilient during challenging times.

While thanking employees for their support, Azman, in his last message as the CEO, said he hoped they would continue to remain competitive.

"All the initiatives implemented are expected to be key to TNB's success in the future."

Azman, who officially leaves office tomorrow, will be succeeded by Amir Hamzah Azizan.

LAMPIRAN 35  
BERITA HARIAN (DUNIA): MUKA SURAT 73  
TARIKH: 1 APRIL 2019 (ISNIN)

# Dunia bergelap sejam sokong Earth Hour

➔ Berjuta penduduk di 180 negara sertai kempen tangani pemanasan global

► New York

**B**angunan Empire State New York, piramid di Mesir, menara jam Big Ben di London dan arca patung Christ the Redeemer di Rio de Janeiro antara mercu tanda termasyhur dunia yang bergelap selama sejam malam kelmarin sebagai sebahagian daripada kempen kesedaran terhadap perubahan iklim dan kesannya ke atas bumi.

Edisi ke-13 Earth Hour anjuran WWF, menyaksikan jutaan penduduk di 180 negara memadamkan lampu tepat jam 8.30 malam, bertujuan menekankan kepentingan tenaga dan perlunya kepada pemuliharaan.

Acara itu diwujudkan susulan beberapa amaran membimbangkan membabitkan keadaan habitat semula jadi dan spesies dunia yang semakin terjejas.

"Kami adalah generasi pertama yang menyedari bahawa kita sedang memusnahkan dunia dan mungkin yang terakhir mampu mengubah keadaan itu," kata WWF.

"Kami ada jalan penyelesaiannya. Kami hanya mahu suara kami didengari."

Ketua Pegawai Eksekutif WWF-Australia, Dermot O'Gorman memberitahu AFP bahawa Earth Hour masih menjadi pergerakan akar umbi terbesar di dunia untuk orang ramai bertindak ke atas pemanasan global.

**Mercu tanda global**

Puluhan syarikat di seluruh dunia bersedia mengambil bahagian dalam kempen tahun ini, yang turut menyaksikan kota Singapura bergelap selama sejam selain Pelabuhan Victoria di Hong Kong.

Di New York, ibu pejabat Pertubuhan Bangsa-Bangsa Bersatu (PBB) turut bergelap selain Brandenburg Gate di Berlin dan Saint Peter's Basilica di Vatican.

Mercu tanda global lain yang turut serta termasuk Opera House Sydney, Menara Eiffel dan Arc de Triomphe di Paris, Burj Khalifa Dubai, pencakar langit tertinggi di dunia Acropolis di Athens, Menara Shanghai dan bangunan Kremlin di Moscow.

Laporan 'Living Planet' WWF mendapati, pada Oktober lalu 60 peratus daripada semua haiwan bertulang belakang seperti ikan, burung, amfibia, reptilia dan mamalia dihapuskan oleh kegiatan manusia sejak 1970.

Di Cali, Colombia, penduduk menyalakan lilin untuk membentuk simbol 60+ sempena meraikan Earth Hour.

Tahun lalu, Earth Hour diraikan di lebih 7,000 bandar dan kota di 187 negara, menurut penganjur.

Walaupun acara memadamkan lampu sekadar isyarat simbolik, Earth Hour secara tidak langsung berjaya mencetus kejayaan dalam kempen mengharamkan plastik di Kepulauan Galapagos dan menanam 17 juta pokok di Kazakhstan sejak sedekad lalu.



[ FOTO REUTERS ]

Pelajar sekolah rendah di China turut menyambut acara Earth Hour di Handan, wilayah Hebei di China, kelmarin.



Suasana ketika sambutan Earth Hour di Brandenburg Gate, di Berlin, Jerman, kelmarin.

AFP



LAMPIRAN 36  
THE STAR (WORLD): MUKA SURAT 25  
TARIKH: 1 APRIL 2019 (ISNIN)

# Smog chokes coal-dependent Poland

**RYBNIK:** Puffs of yellowish grey-and-black smoke billowing out of household chimneys create a blanket of smog choking the southern Polish mining town of Rybnik, one of the most polluted places in the European Union.

Although it's early spring, the weather is wintry and Ewa Kempny is still shovelling coal into an antiquated stove to heat her home.

"What do you want us to use for heat here? Coal is the cheapest fuel," the forty-something mother told the two unexpected visitors in her cellar.

"It would be too expensive to hook up natural gas or to connect to the town's central heating network."

Municipal police charged with sniffing out residents illegally burning highly-polluting rubbish like plastic, rubber or wood-plastic composites have turned up on her doorstep following an anonymous tip-off about the odd colour of smoke emerging from her chimney.

"Whether rich or poor, people burn MDF (medium density fibre) boards, Tetra packs or plastic bottles," said Katarzyna Klosok, as she checked the ashes in Kempny's stove and the bills for the coal she bought.

"The day we have wages like in western EU countries, we'll heat with natural gas," says Jan Kilian, a retired miner at another Rybnik home where the patrol showed up after receiving a complaint.



**Sickly sight:**  
A file photo of smog blanketing the Upper Silesian Industrial Region in southern Poland.  
— Reuters

The patrol also tells homeowners their antiquated coal stoves will have to be replaced with modern, cleaner-burning models by 2021.

A ban on sales of the most polluting stoves was only imposed last year, but the low-quality coal which is the main source of smog is still being sold.

"Coal, the main culprit behind smog, isn't banned," said Oliwier

Palarz, a local activist with the Smog Alarm NGO.

Despite efforts to go green, Poland is still betting on coal, both from its own deposits and imports, as its main source of energy for at least the next decade.

Seventy percent of Polish households burn heavily-polluting low-quality coal or rubbish in old stoves for heating.

Antiquated coal-fired power plants also generate nearly all of Poland's electricity, giving it some of the highest carbon emissions in the EU.

The European Environmental Agency also blames air pollution – caused in large part by the burning of coal – for an estimated 50,000 premature deaths per year in this country of 38 million people. — AFP



LAMPIRAN 37  
THE STAR (STAR ASEAN): MUKA SURAT 28  
TARIKH: 31 MAC 2019 (AHAD)

# 'Declare emergency now'

## Expert: Smog in Thailand has reached critical level

**BANGKOK:** An academic has called on the government to declare a state of emergency in Chiang Mai and most of Thailand's northern provinces over "disastrous" levels of smog.

Residents in the north are advised to stay inside air-conditioned buildings and avoid all outdoor activities as some areas of Chiang Mai recorded levels of PM2.5 – particulate matter fine enough to enter a person's bloodstream through the lungs – beyond 700 micrograms per cubic metre of air yesterday morning.

Witsanu Attavanich, a lecturer at Kasetsart University, said any level over 500 is hazardous and far beyond the capacity of local authorities to cope.

"The central government needs to step in now and declare a state of emergency.

"Such a disastrous level of PM2.5 is probably the highest level ever recorded in Thailand.

"No need to consider the level of threat from such dangerously hazardous air pollution on our health, as breathing in only 100 micrograms of PM2.5 is considered to be very harmful even for healthy people," Witsanu said.

In January, all schools in Bangkok were temporarily shut down when the PM2.5 level was around 70 to 120 micrograms.

But so far, except for the creation of "safe zones" in Chiang Mai city centre, no such emergency procedure has been ordered by the Chiang Mai Provincial Authority.

Prof Kwanchai Suparatpinyo of Chiang Mai University's Research



**From bad to worse:** Chiang Mai residents have been advised to avoid outdoor activities as some areas have recorded levels of PM2.5. — The Nation/Asia News Network

Institute for Health Sciences said the situation was critical. He cited the many forest fires that ravaged Chiang Mai and the northern region, as well smog from neighbouring countries as the causes.

He urged residents, especially small children, elderly persons, pregnant women and those with chronic ailments such as allergies

and heart disease, to stay indoors and refrain from all outdoor activity.

Meanwhile, the Pollution Control Department put the 24-hour average of PM2.5 between 36 and 239 micrograms per cubic metre of air in nine northern provinces.

Tambon Jong Kham in Muang Mae Hong Son was worst off at 239

micrograms, followed by Wiang Phang Kham in Chiang Rai's Mae Sai district at 224 micrograms.

Tambon Wiang in Muang Chiang Rai cited 98 micrograms, while Chang Pheuk and Sri Phum in Muang Chiang Mai cited 172 micrograms and 168 micrograms respectively. — The Nation/Asia News Network



LAMPIRAN 38  
THE STAR (STAR ASEAN): MUKA SURAT 23  
TARIKH: 30 MAC 2019 (SABTU)

## Worsening air pollution cuts lifespan in Indonesia

**JAKARTA:** Researchers say Indonesia's air quality has deteriorated from among the cleanest in the world to one of the most polluted over the past two decades, shaving five years from life expectancy in some regions.

The University of Chicago study says an increase in coal-fired power stations, burning of land for plantation agriculture and rising car ownership are responsible for the worsening pollution.

It said the greatest spike happened in the last few years with air pollution more than doubling between 2013 and 2016.

According to the researchers, sustained high concentrations of particulate matter in the air people breathe will cut 2.3 years from lifespans in the capital Jakarta, 4.8 years in the Sumatran city of Palembang and 5.6 years for the city's neighbouring Ogan Komering Ilir district. — AP