

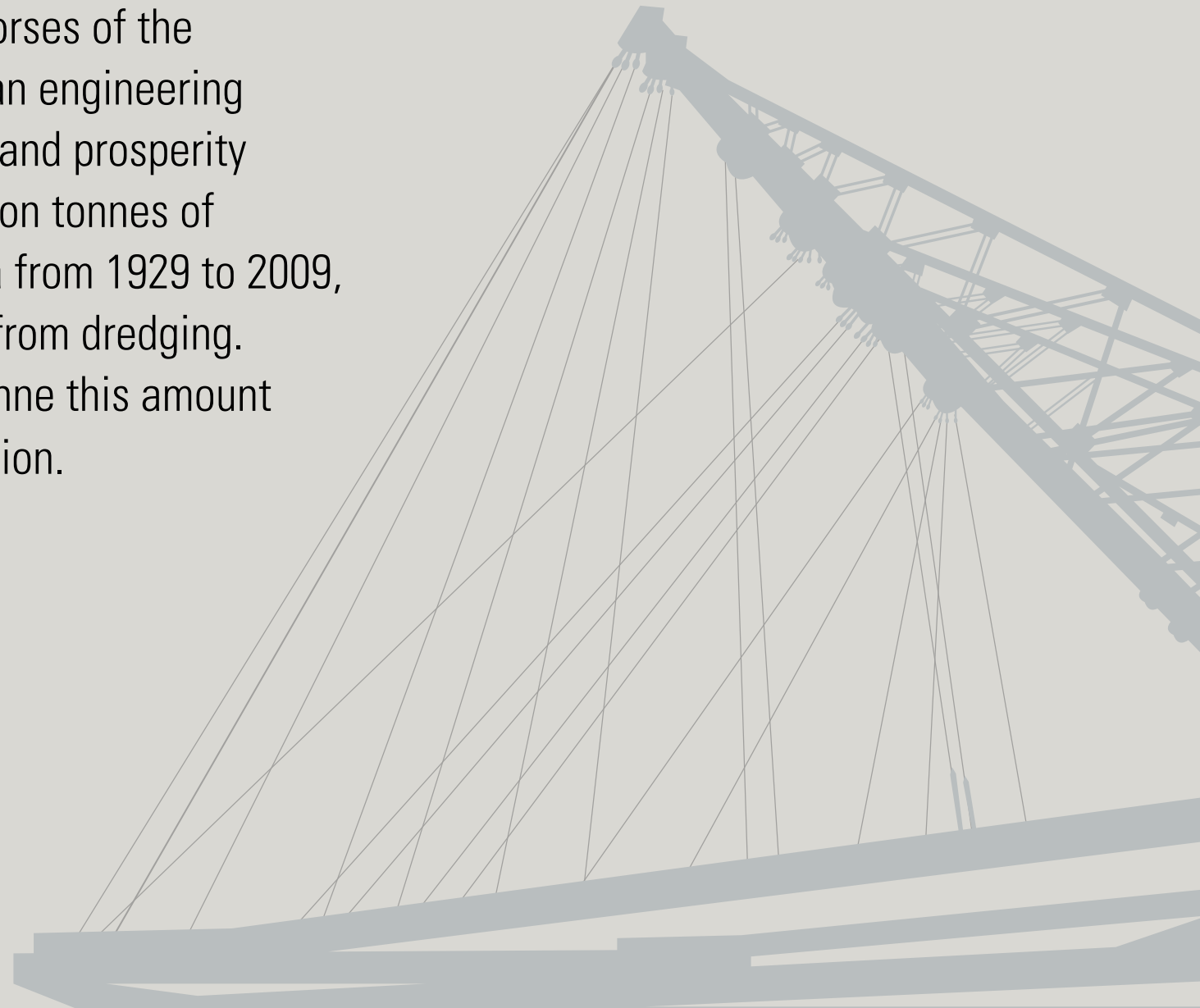
Save the NATION'S LEGACY for the Future



The first dredge was introduced into Malaya in 1913 and started operating in Batu Gajah, Perak.

The dredge was one of the main workhorses of the tin mining industry in Malaysia. It was an engineering masterpiece which had brought wealth and prosperity to our nation. Out of a total of 3.33 million tonnes of tin-in-concentrate produced in Malaysia from 1929 to 2009, 1.32 million tonnes or 40 percent were from dredging. At today's tin price of US\$30,000 per tonne this amount of tin would be worth almost US\$40 billion.

The first dredge was introduced into Malaya in 1913 and started operating in Batu Gajah, Perak. A fine example of pioneering technology, at its prime in 1929, there were 105 dredges operating in Malaysia. Dredging became the largest contributor to Malaysia's tin production in 1931 (overtaking gravel pump mining) and remained as the largest contributor for 32 years until 1963. In 1986 it regained its top status and, except for 1989 and 1990, continued to be the top contributor until 1993. As a result of the significant contribution from dredging, Malaysia was for many decades the largest tin producer in the world and is still the largest all time producer of tin.



# THE DREDGE, its Contribution to the Nation



There is only one dredge now left standing and tilting. Its legacy needs to be preserved and its heritage needs to be placed in the list of “**must saves**” in Malaysia.

The introduction of the dredge into Malaya in 1913 was one of the earliest examples of technology transfer as well as foreign direct investment. Malaysians soon became proficient and even experts in operating the dredge, including its maintenance. In fact, today, a Malaysian company has become a world leader in the construction of bucket line dredges and Malaysian expertise in dredging is very much sought after. A vibrant engineering and fabrication industry also developed because of the need to service the dredges.

The dredge indeed has given much to the nation. Money earned by this workhorse had been used to finance the early development of our nation. The engineering and fabrication industry, initially started to serve the tin mining industry, continued to develop and went on to serve other industries and prospered.

Unfortunately the number of operating dredges started to dwindle rapidly after 1993 and the last of the dredges ceased operation in 2003. Though no more the icon that it was, there is still so much to be said about the contribution the dredge has made to our nation.

## TANJUNG TUALANG DREDGE, the Last Tin Dredge Standing



The Tanjung Tualang Dredge (henceforth referred to as “The Dredge”) is the only tin dredge left in the country. It is located at the 5th Mile Batu Gajah – Tanjung Tualang Road, Batu Gajah, Perak and was one of Malaysia’s larger tin dredges.

The Dredge was designed and built by FW Payne in 1938 in England. Formerly owned by Southern Malayan Tin Dredging (M) Bhd, a subsidiary of Malaysia Mining Corporation Berhad (MMC), it was in operation for 44 years until August 1982. Subsequently, MMC donated The Dredge to the Perak State Government as “Warisan Kapal Korek”. The preservation and maintenance of The Dredge are now being carried out by Osborne and Chappel Sdn Bhd (OCSB).

### Specification of the Tanjung Tualang Dredge

Weight	-	4,500 tonnes
Pontoon	-	Length of 75 metres
		Breadth of 35 metres
		Depth of 3.1 metres
Digging depth	-	33 metres
Bucket capacity	-	0.50976 cubic metres
Number of buckets	-	115
Horse power	-	2,247 horse power
Dredging capacity	-	358, 000 cubic metres

Unfortunately, this last tin dredge in the country may not be standing for long. Tilting at the starboard due to leakages of the pontoon, it is in imminent danger of flipping over and may sink soon if those leakages are not repaired immediately.

## Overview

Realising the dire straits of The Dredge, a Save the Dredge Committee was formed late last year to drive a Campaign to save, preserve and enhance this heritage icon by transforming it into an innovative centre showcasing Malaysia's tin mining excellence in the past, present and future. Towards this end a "Save-the-Dredge Fund" (henceforth referred to as "The Fund") was also being established. These initiatives were helmed by the Tin Industry (R&D) Board (henceforth referred to as "Tin Board"), which is a statutory body responsible to the Ministry of National Resources and Environment.



The Dredge and its surrounding area would be developed into an eco-tourism attraction which will create employment and bring economic benefits to the state of Perak and the nation in general.

# Objectives

- Preserve the dredge as a monument of the tin mining industry
- Facilitate a better understanding and appreciation of the tin mining industry among the Malaysian society
- Provide pertinent information and data on the history and significance of the tin mining industry
- Promote an awareness of the immense potentials of tin that still need to be explored, including the increasing demand of this metal for future applications
- Establish a platform for research & development, training and educational programmes and facilities via affiliations with international institutes of higher learning
- Develop the surrounding area, encompassing the Kinta Valley, as a unique eco-destination and viable tourist attraction

This new Centre will also feature the following integral elements:

- Living tin museum
- Information and resource centre for tourists and school-going children
- Amenities for visitors including food outlets and souvenir shops
- Facilities for the training & education of students and professionals in related industries





## A New Lease on Life

It is envisioned that The Dredge will be given a much-needed facelift, and transformed to become an inspiring integrated and innovative centre that offers an all-encompassing perspective of the tin mining industry in Malaysia as well as the country's role in the international arena.



# Preliminary



## Living Heritage Gallery

The main component of the transformed dredge will offer an all-encompassing perspective of tin's significance in the development of the nation and the world (past, present & future). It will incorporate interactive walkthroughs, lifelike replicas, intricate dioramas and exclusive exhibits that trace the progress of mining processes and technology, and its importance in everyday life.

## Training & Education Resource Centre (TERC)

An avenue that incorporates comprehensive resources related to mining geology and mineral processing with fully-equipped training/conference rooms that are ideal to hold workshops/seminars. Also offers excellent resources targeted at the younger generation, with fun-learning themes, engaging multimedia displays and games and school holiday programmes.

## Souvenir Outlet

An intricate collection of bric-a-bracs related to the tin mining theme, including books, jewellery, art pieces and models that are locally sourced and produced.

## Café Kiosk

Features a family-friendly fusion menu amidst a cosy ambience for visitors to hang out and "recharge."

## Mineral Showroom

Displays an extensive collection of tin and tin ore specimens and products in various forms, as well as other minerals, accompanied with detailed, interactive explanations.

## Dredge Bucket Exhibit Deck

A dedicated multimedia exhibit that offers visitors the opportunity to get firsthand knowledge and experience of the mechanics of dredge mining, promising an engaging and learning experience for all.

## Tin Hall of Fame

Commemorates the many important milestones of the tin industry, both locally and globally, with a special focus on the many technological advancements made in tin mining, including the known and famous mines of the day.

## Upcoming – within The Dredge’s enclosure



### Mine Your Business

An experiential platform that allows visitors the chance to “mine their own tin” using the traditional tin mining method of panning, that will also feature a fully-functional palong.

### Fine Dining Seafood Restaurant

Offering gorgeous vistas of the verdant surroundings, including a panoramic view of the majestic dredge, along with scrumptious fine dining cuisine; providing the ideal venue for a unique experience, whether for corporate or personal celebrations.

### Sustainable Eco-village

A self-sustainable eco-village that encompasses organic farms (plants and livestock) and utilises alternative energy resources. It could also feature typical village (kampung) homes of the various Malaysian states as the villagers’ actual dwellings that showcase our native culture at its best, with opportunities for day tours, cultural shows, games and homestays.

# Estimated Financial Requirements to Save and Preserve The Dredge

Initial costs to repair leakages and keep The Dredge afloat	RM 1.2 mil
Subsequent repair works	RM 5.2 mil
Refurbishment of The Dredge	RM 4.0 mil
Initial maintenance	RM 1.6 mil

# Management of The Fund

## Trustee

The Tin Board will act as trustee to The Fund.

## Structure & Procedures

The Fund will be managed and administered by persons duly appointed by the Tin Board which will set up procedures governing utilisation of monies under The Fund.

## Tenure

The tenure of The Fund will be determined by the Tin Board. In the event The Fund is revoked, any remaining money in The Fund will be utilised upon determination of the Tin Board.

## Tax Exemption

The Tin Board is seeking tax exemption from the Inland Revenue Board for all donations and contributions to The Fund.

## Independent Auditor and other Advisers

The Tin Board shall appoint an independent auditor for maintaining and keeping all proper records and accounts pertaining to The Fund and any other Advisers necessary and appropriate to facilitate the smooth running of The Fund.

## Patrons

The Minister of Natural Resources and Environment, YB Dato' Sri Douglas Uggah Embas has consented to be Patron to the "Save the Dredge Campaign" and "Save the Dredge Fund" and The Menteri Besar of Perak, YAB Dato' Seri Dr Zambry Abdul Kadir has been invited to be co-Patron of the "Save the Dredge Campaign" and "Save the Dredge Fund".

## Adviser

The Secretary-General of the Ministry of Natural Resources and Environment, Y.Bhg Dato' Zol Azha bin Yusof has consented to be Adviser to the "Save the Dredge Campaign" and "Save the Dredge Fund".

## Committee

Members will comprise:

- Y.Bhg Dato' Seri Dr Mohd Ajid Anuar  
(representative of the tin industry)
- Y.Bhg Dato' Ir Haji Abdul Rahman Dahan  
(representative of the tin industry)
- Dr Azimudin Bahari  
(representative of the Ministry of Natural Resources and Environment)
- Y.Bhg Dato' Haji Yunus Abd Razak  
(representative of the Department of Minerals and Geoscience)
- Representative from Jabatan Warisan Negara
- Representative from the Economic Planning Unit of Perak Darul Ridzuan
- Suitable representatives from other relevant sectors will also be included

## Notice

The Tin Board has issued this Information Memorandum for the sole purpose of inviting donors to contribute cash, of which will be vested into The Fund established by the Tin Board. All monies donated and contributed towards The Fund will be utilised for all costs incurred for saving, preserving and transforming the remaining last Tin Dredge in the country which is located at the 5th Mile Tanjung Tualang, Perak Darul Ridzuan into a living Museum and National Heritage. The Tin Board will be seeking special tax exemption from the Inland Revenue Board for all donations and contributions to The Fund. The Fund will be held under the name of a Board of Trustees and will be solely operated, and administered and managed by persons appointed by the Board of Trustees.

## Responsibility Statement

This Information Memorandum has been read, understood and approved by the members of the Tin Board and they collectively and individually accept full responsibility for the accuracy and reliability of the information given and confirm that, after having made all reasonable enquiries, and to the best of their knowledge and belief, there are no false or misleading statements or other facts, of which any omission might make any statement herein misleading and there are no material omission in this Information Memorandum.

## DO YOUR PART.

Help us elevate the TANJUNG TUALANG DREDGE into an international-standard educational, training and innovative R&D resource centre and eco-tourism destination for all.



The "SAVE THE DREDGE" Campaign is initiated by the Tin Industry (Research and Development) Board in collaboration with Magic Mirror Sdn Bhd and Intact Group with the support of the Ministry of Natural Resources and Environment, Department of Minerals and Geoscience, Malaysian Chamber of Mines and The Kuala Lumpur Tin Market, State Economic Planning Unit Perak, Department of National Heritage and Osborne and Chappel Sdn Bhd.