
JKR STANDARD



JKR/SIRIM 5:2023

ICS: 91.040

Penarafan Hijau JKR (pH JKR) for road

JKR

Jabatan Kerja Raya (JKR) Malaysia is a federal government department in Malaysia under Ministry of Works Malaysia which is responsible for construction and maintenance of public infrastructure in Malaysia such as roads, government buildings, schools, hospitals, airports, harbors, piers and related engineering works.

JKR Malaysia vision is to become a world-class service provider and centre of excellence in asset management, project management and engineering services for the development of the nation's infrastructure through creative and innovative human capital and state-of-the-art technology.

SIRIM

SIRIM Berhad is a premier total solutions provider in quality and technology innovations that helps industries and businesses to compete better through every step of the business value chain.

SIRIM Berhad is the centre of excellence in standardisation, facilitating industries and businesses in enhancing their production and competitiveness, protecting consumers' health and safety, and giving them the choice for quality products and services.

JKR STANDARD

JKR Standard is developed according to SIRIM standardisation procedures, which are in line with international practices that ensure appropriate notification of work programmes and participation of interested parties. As a standards development organisation, SIRIM Berhad has extensive expertise in standards research and consultancy which helps industries and businesses meet local and international requirements and practices.

JKR Standard is developed from JKR Malaysia initiatives as a technical advisory in infrastructure development for the Government of Malaysia through collaboration with SIRIM which provides requirements, specifications, guidelines or characteristics that can be used to ensure that materials, products, processes and services are fit for their purpose.

JKR Standard is developed through consensus by established committee, which consists of experts in the subject matter. The use of this standard is voluntary, and it is open for adoption by regulators, government agencies, associations, industries, professional bodies, etc.

© Copyright 2023

For further info or enquiries on JKR Standard, please contact:

Standards Development and
Consultancy Section
SIRIM STS Sdn Bhd
1, Persiaran Dato' Menteri
Section 2, P.O. Box 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA

Tel: 60 3 5544 6314/6909
Email: stdsd@sirim.my
<http://www.sirimsts.my>

OR

Cawangan Alam Sekitar & Kecekapan Tenaga
Jabatan Kerja Raya Malaysia
Tingkat 23, Menara PJD
No. 50, Jalan Tun Razak
50400, Wilayah Persekutuan
Kuala Lumpur

Tel: 60 3 2618 7701
Fax: 60 3 4041 1988
Website: www.jkr.gov.my

Contents

	Page
Foreword.....	ii
0 Introduction.....	1
1 Scope	1
2 Normative references.....	1
3 Terms and definitions.....	4
4 Criteria, responsibilities and processes	6
5 Rating system	18
6 <i>Penarafan Hijau</i> (pH JKR) categories and implementation strategies	19
Annex A Abbreviations and Acronyms	48
Annex B Registration Form	49
Annex C pH JKR Assessment Scoring Form.....	51
Bibliography	64

JKR/SIRIM 5:2023

Foreword

This standard was developed by the Project Committee on *Penarafan Hijau* JKR (pH JKR) for Road established by SIRIM Berhad.

This standard was developed with the following objectives:

- a) as a guide for assessing the sustainability of road projects;
- b) provide a comprehensive and appropriate strategy towards sustainable road project implementation;
- c) to create awareness and promote sustainable development; and
- d) as a guide to all parties involved in the *penarafan hijau* scheme.

This standard will be subjected to review to reflect current needs and conditions. Users and other interested parties may submit comments on the contents of this standard for consideration into future versions.

Compliance with this standard does not by itself grant immunity from legal obligations.