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MINISTRY OF DEVELOPMENT  
NEGARA BRUNEI DARUSSALAM

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## GENERAL SPECIFICATION

# General specification for pavement stabilization

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Construction Planning and Research Unit  
Ministry of Development  
Old Airport, Jalan Berakas  
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Negara Brunei Darussalam

## General Specification for Pavement Stabilization

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## **GENERAL SPECIFICATION FOR PAVEMENT ROADS AND BRIDGES**

### **PREFACE**

Brunei Darussalam is fast developing country. Infrastructure needs such as roads and bridges are continually expanding. The network of roads in Brunei Darussalam, in relation to its land mass and population, is one of the most extensive and finest in this part of the world.

Authority for the planning an implementation of the road network is vested in the Public Works Department, Ministry of Development. A consistently high standard of design, construction and maintenance is a standing objective of the Public Works Department. Towards this objective, it is necessary for a uniform set of specification to be developed and used by consultant and contractors alike.

The specification and guideline published by the Construction Planning and Research Unit (CPRU), Ministry of Development, are based on established and current practices in this region. They are further modified to suit the conditions peculiar to Brunei Darussalam.

Throughout the specification, there are references to standards and tests of the British Standard (BS), Code of Practice (CP) of the United Kingdom; American Association State Highway and Transportation Officials (AASHTO), American Society for Testing and Materials (ASTM), United States of American; and these shall mean the latest issue of these standards and practices.

The specifications contained here form part of the General Specification for Roads and Bridges developed and compiled by CPRU. They will be continually updated or amended to keep abreast of changes and modern advances in construction technology and materials.

## COMMITTEE REPRESENTATION

The Technical Committee on General Specification for pavement stabilization was entrusted by the Ministry of Development for the preparation of this Brunei Darussalam Standard. The members of the Technical Committee are as follows:-

1. Mr. Yong Teck Chin (Chairman) - Department of Road,  
Public Works Department
2. Mr. Lim Lam Keong/Zahari Hj Abd Karim - Construction Planning  
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3. Hj Suhaimi Hj Abd Gafar/Mr. Yee Kok On - Department of Road,  
/Mr. Lee T. C Public Work Department
4. Mr. Khor Wei Chee - Petar Perunding Sdn Bhd
5. Mr. Lou Chi Tong/Dr. S. A. Sultan - Associated Consultants  
/Mr. Wee Hong Joo Sdn Bhd
6. Mr. Gaston Ovellette - Bolton Hennessey
7. S.Suresh/Mr. Tsang Chee Wah - Jurutera Tempatan  
/Mr. Yip Wai Woon
8. Mr. Anil Ramachandren/ - Baharuddin and  
Mr. Arunachal Ray Associates

**GENERAL SPECIFICATIONS FOR PAVEMENT  
STABILIZATION**

- 7.1.0 These standard specifications cover all the work in connection with deep milling to, break down and recover the in situ upper layers of existing road pavements, alter the gradation by the addition of imported material, furnish and mix in stabilizing agents and water, and place with compaction to achieve a new layer in accordance with the particular specifications as given in the Appendices. **Scope**
- 7.2.0 **MATERIALS**
- 7.2.1 The existing pavement structure shall be investigated and tests conducted on representative samples of the material occurring in the upper layers which are to be recycled before the commencement of works. The results of the investigations will be submitted by the Contractor and shall be read in conjunction with the particular specifications as given in the Appendices. **In situ materials**
- As a minimum, these investigations will include :
- a) a description of the existing pavement structure ;
  - b) anticipated after-milling gradation and plasticity of the material to be recycled ; and
  - c) in situ moisture content.
- The requirements of the recycled product are contained in both these standard specifications, and in the particular specifications as given in the Appendices. It shall incumbent on the Contractor to organize and execute his operations such that the end-product requirements are met.
- 7.2.2 Natural material (Sand, gravel) and/or crushed-stone product (graded aggregate, dust) may be required to be mixed with the recycled material for the purpose of : **Imported natural material.**
- a) altering the final gradation ;
  - b) improving mechanical properties ; and / or
  - c) as supplementary material for shape corrections.
- The specific requirements for imported material will be detailed in the particular specifications as given in the Appendices .