



(MALAYSIA)





- Natural Soil Recycling Technology
- Soil Improvement Technology
- **Foundation Construction**
- Solidifying Agent for Industrial Wastes.

CONCRETE ACTIVITY SDN.BHD(Co. No.685494-K)

(K-G.S.C. Malaysia)

A02-3, 4rd Floor, Pusat Perdagangan Taman Dagang Jalan Dagang Besar, 68000 Ampang, Selangor Darul Ehsan

Tel: +603 4270 1028/29 Fax: +603 4270 1439

Email: shk20052006@yahoo co.kr cdrtan@hotmail.com

WHO IS CONCRETE ACTIVITY?

 A Registered Sdn Bhd Company in Malaysia a subsidiary of K-GSC under the Korea T&G Co. Ltd.

Addressed: A02-3, 4th Floor
Pusat Perdangangan Taman Ampang
Jalan Dagang Besar,
68000, Ampang,

Selangor Darul Ehsan. Malaysia

What is K-GSC?

- KOREA, GREEN, SOIL, CONCRETE
- IT IS AN INORGANIC NEUTRAL HIGHLY EFFICIENT AGENT.

What is if for?

- Use for Stabilizing of all kind of soil.
- Improve Soil Properties.
- Solidify and Strengthen the Soil.

K-G.S.C. CHEMICAL PROPERTIES STANDARD

NO	CHEMICAL	MOLECULAR	PERCENTAGE	REMARK
1	Ammonium Chloride	NH ₄ Cl	5	
2	Sodium Chloride	NaCl	25	
3	Iron Chloride	FeCl ₃	2	
4	Carbon	С	1	
5	Magnesium Chloride	MgCl ₂	20	
6	Potassium Chloride	KCl	11	
7	Calcium Chloride	CaCl ₂	10	
8	Magnesium Oxide	Raw MgO (Milk)	15	
9	Ethylene Glycol	EG	1	
10	Waterproofing Agent		3	
11	Emulsification Powders		3	
	TOTAL		100%	

MIXING PROPORTIONS WITH K-G.S.C. TO THE EXISTING SOIL

NO	ITEM SOIL	WATER CLAY		WEAK SOIL		NORMAL SOIL		FINE SOIL	
1	SOIL	1	m ³	1	m ³	1	m ³	1	m ³
2	PORTLAND CEMENT	273	kg	210	kg	162	kg	125	kg
3	K-G.S.C.	2.9	kg	2.2	kg	1.7	kg	1.3	kg
4	CLEAN WATER	10	L	25	L	35	L	50	L

Remark

The volume of clean water will depends on the contains of the existing soil

Management Principle

CONCRETE ACTIVITY SDN BHD.

Development of new products

Acceleration of finding new markets

Internationalization of new technology

Operation of environmental civil engineering

Development of environment restoration system

R&D-centered typical venture business

Functions of K-G.S.C method of construction

Operation of weak ground into concrete

K-G.S.C

Neutralization and deodorization of toxic

Removal of sewage to rivers

Solidification of industrial waste

SAVE TIME, MONEY, ENVIRONMENT, AND THE EARTH

Application of K-G.S.C

- Weak Ground Improvement
 - > Swampy ground improvement
 - > For mud hardening
- Foundation Construction
 - Land reclamation works
 - Foundation structures
 - > Side Wall Foundation
- Paving Works
- Ocean Floor Improvements
- Natural Soil Recycling Technology.

KGSC USE FOR:-

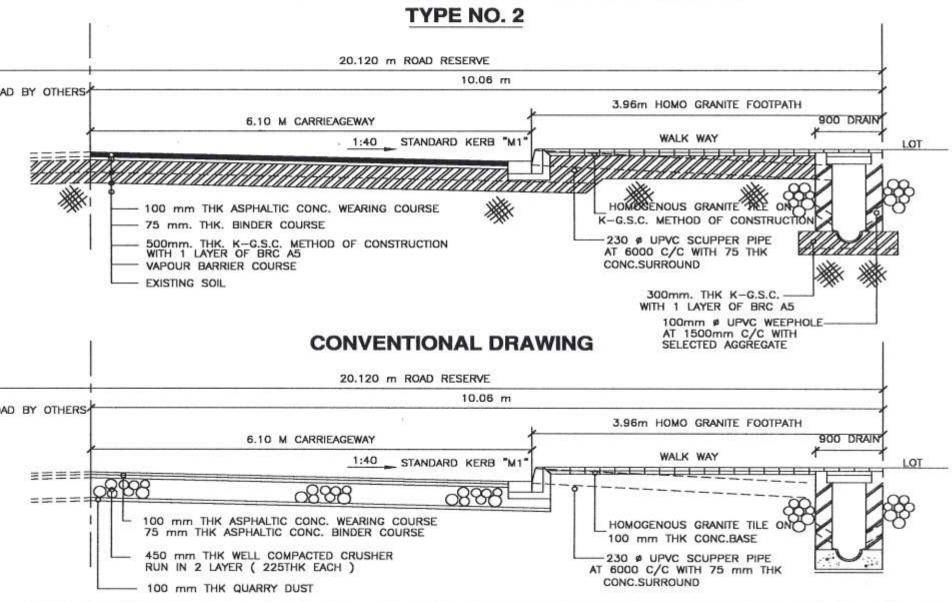
- Base Foundation
- Watertight works for Base Foundation
- Soil concreting to Grade 25
- Road Construction with Safety Factor of 1.50
- Improves, Solidifies and Stabilizes poor grade soil, pit swampy soil and marine clay.

Application Fields / 现在K-G.S.CH10 有用的活用在多种工事上。

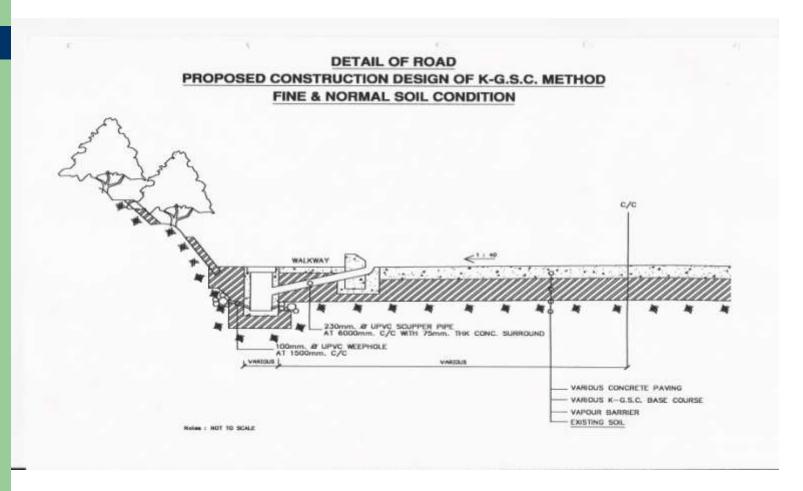


[•] K-G.S.CHIP는 현재 여러가지 종류의 공사에서 유용하게 활용되고 있습니다. K-G.S.CHIP is being used in a wide range of construction works.

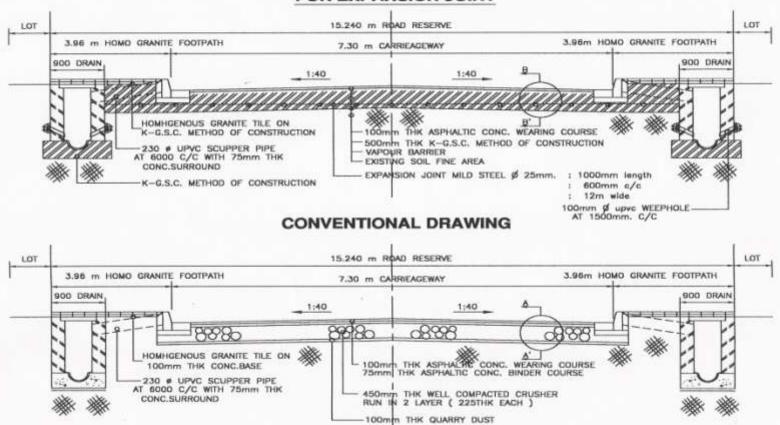
PROPOSED CONSTRUCTION DESIGN OF K-G.S.C. METHOD



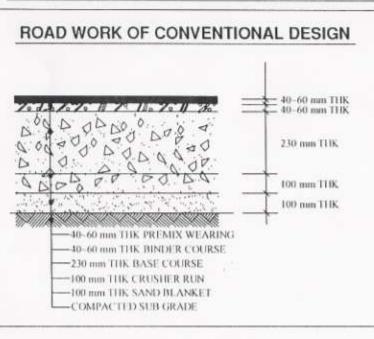
ROAD DETAILS K-G.S.C METHOD

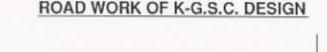


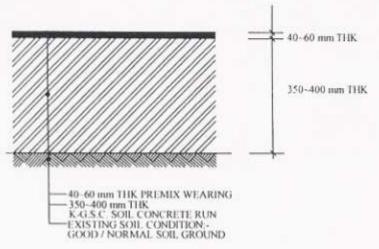
DETAIL OF ROAD PROPOSED CONSTRUCTION DESIGN OF K-G.S.C. METHOD FOR EXPANSION JOINT



TYPICAL SECTION OF COMPARISON IN COST OF CONSTRUCTION FOR ROAD WORK BETWEEN CONVENTIONAL DESIGN & K-G.S.C. DESIGN







PROCEEDING WORK SCOPE

- 1. Level & Marking (4 times work)
- 2. Excavation
- Disposal
- 4. Back Filling
- 5. Compacting
- 6. Sand Blanket
- 7. Water Spraying
- 8. Crusher Run
- 9. Compacting
- 10. Water Spraying
- 11. Base Course
- 12. Compacting
- 13. Binder Course
- 14. Premix Wearing Course

PROCEEDING WORK SCOPE

- 1. Level & Marking
- 2. Excavation
- 3. Sub grade compacting
- K-G.S.C. Mixing (existing soil + cement + K-G.S.C. + water)
- 5. Back Filling & Leveling
- 6. Compacting
- 7. Premix Wearing Course

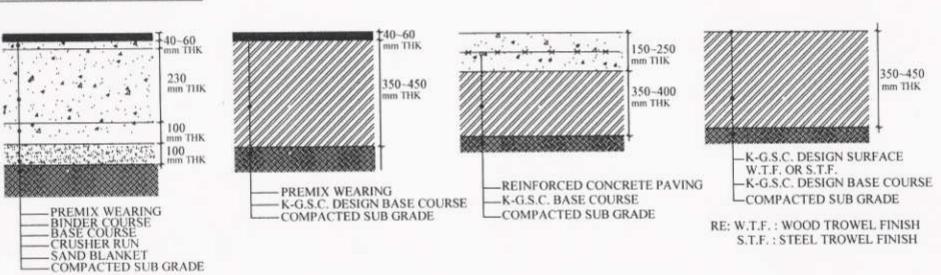
BENEFITS & ADVANTAGES

- 1. Uses the usual existing all natural soil
- 2. Cost saving in actual operation cost.
- 2-1 Materials/machinery and manpower cos
- 2-2 Increase in productivity
- 2-3 Shortening the period of work
- 2-4 Maintainance works cost
- F.S. 1.5 Bearing Pressure compared to conventional design
- Environmental friendly and protection of natural environment

TYPICAL SECTION OF COMPARISON FOR ROAD BETWEEN CONVENTIONAL DESIGN AND K-G.S.C. DESIGN

CONVENTIONAL DESIGN

K-G.S.C. DESIGN OF ROAD SURFACE AND BASE COURSE

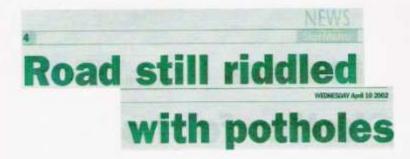


RE: CONVENTIONAL ROAD GENERAL ROAD PREMIX WEARING ROAD GENERAL ROAD CONCRETE PAVING ROAD GENERAL ROAD K-G.S.C. DESIGN SURFACE ROAD TIMBER ROAD FARMING ROAD FARMING WATERWAY ROAD CONSTRUCTION ACCESS ROAD PARK WALK WAY BANK REVETMENT ROAD TOWN ROAD

TYPICAL SECTION OF ROAD BASE COURSE DESIGN OF K-G.S.C. GOOD/NORMAL SOIL GROUND CONDITION TYPE NO. T-1-1 PRIVA VARIOUS ROAD RESERVE VARIOUS CARRIEAGEWAY LOT WEEP HOLE 100 mm ≠ UPVC PIPE C/C 1500mm -LANDSCAPING BOX -40-60 mm THK. PREMIX WEARING MEDIAN STRIP LANDSCAPE --350-450 mm THK. K-G.S.C. BASE COURSE CULVERT DRAIN -EXISTING SOIL CONDITION:-GOOD/ NORMAL SOIL SUB GRAD AREA K-G.S.C. METHODS OF CONSTRUCTION GROUND SOIL WHOLE MARKING

K-G.S.C. DESIGN FOR DURABLE SUPPORT

K-G.S.C. METHOD OF CONSTRUCTION IS MOST SUITABLE FOR REPAIR AND REMEDIAL WORKS OF VARIOUS UNEVEN SUBSIDENCE OF ROAD.



BY BALINA KHALID

D arresent of patering up. it seems, writed other the pathole problems along John Bate. Alon Baker in Sociam It Tetaling days, indees the undersome grazific water pige is triplaced.

The Petning Jaya Municipal Council (MPFI) development and maintenance dericle improvement the label Hay Abdu Hamid admitted that the tally solution to the policies in replanting the pipe.

The old pape, he said, small continue leaking despite the opens being constantly smiles on.

Lexicon from the pines will become the unit in the arms. And with the high possible of velocity possing the read, it is easy the the arthretti brook into puthales, he widded. After they were patched up yet again by

MPEI on Threshes fast week, the publishes retained several days later, much to mountain assertance.

The pethodes are usually spitted at two issuitons in Julian Date/Alin Bakar, more the feeting 16 coundatanit and the allo read to Pulles Damansara.

The determining pape, and Han, could not take the lend water persents being rhanrolled through it. The weight of possing value added to the condition.

But the task of replacing the pase does not tall trades the local authority, the Sciumper Waterworks Corporation Christalaman Gras Air Schunger or Panes in responsible.

"But emidents simple called us to over plant about the metter and and set why we did use fir the problem," unit They

The only my we could help a patch up the lost on the lost on the lost of the l

We are toying our haid in get a company picture above that's reliant to precise us with a line intre- a big potode of a reliant to 4% and 8%, in carry on, posing a danger the sol. The Kur mind, onling that the state to monotonic provincient had talked to several interested along Jahrs.

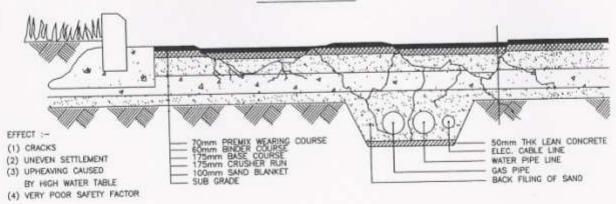


reduct through it. The weight of powers Potholics are reaccounted on the road in this picture fallen on Sonifey. On Treading last worse

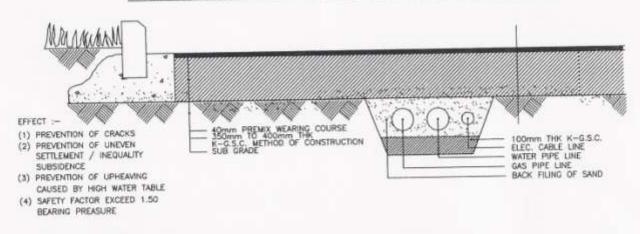


DAMAGED ROAD - CONVENTIONAL DESIGN

TYPE NO: 8

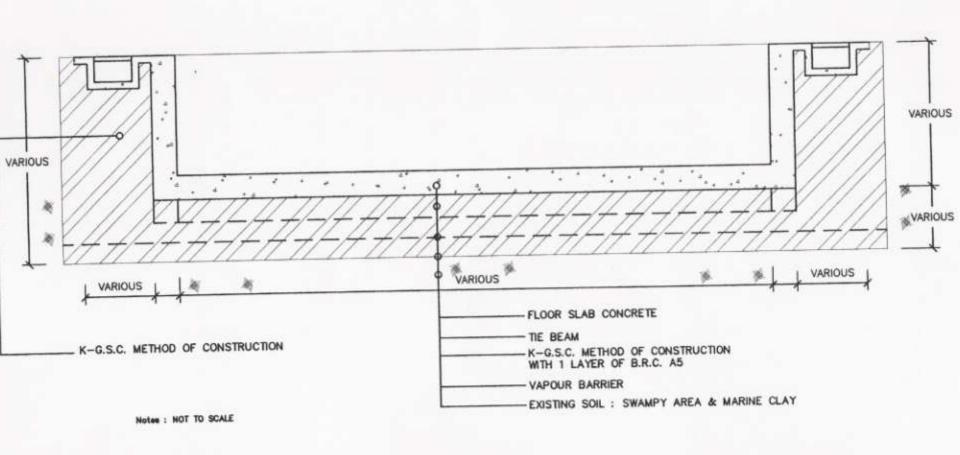


K-G.S.C. DESIGN OF REPAIR AND REMEDIAL WORK



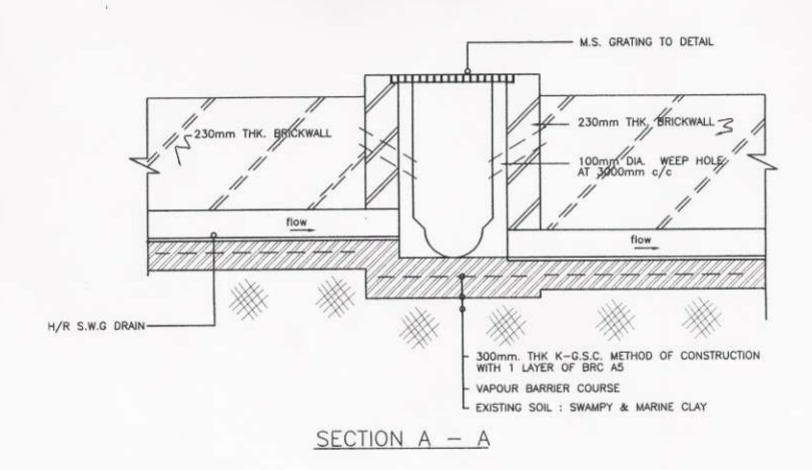
NOTES: NOT TO SCALE

PROPOSED CONSTRUCTION DESIGN OF K-G.S.C. METHOD SWAMPY & MARINE CLAY CONDITION



DETAIL OF DRAIN

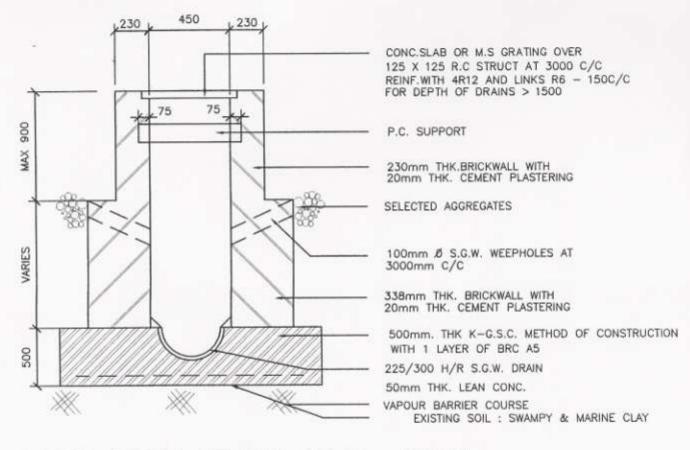
PROPOSED CONSTRUCTION DESIGN OF K-G.S.C. METHOD SWAMPY & MARINE CLAY CONDITION



NOTES: Not to scale

DETAIL OF DRAIN

PROPOSED CONSTRUCTION DESIGN OF K-G.S.C. METHOD SWAMPY & MARINE CLAY CONDITION



TYPICAL DETAIL OF H/R S.G.W. : DRAIN

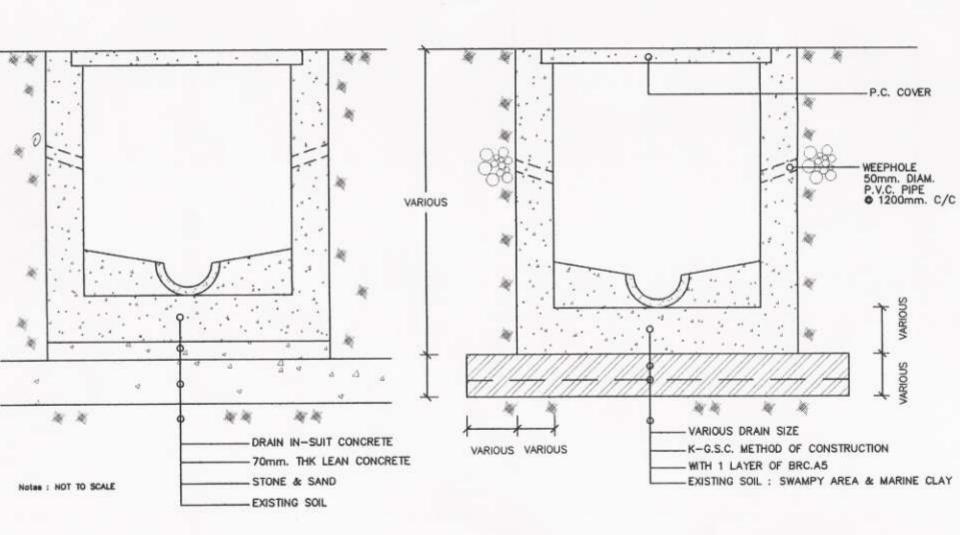
NOTES: Not to scale

DETAIL OF DRAIN

PROPOSED CONSTRUCTION DESIGN OF K-G.S.C. METHOD SWAMPY & MARINE CLAY CONDITION

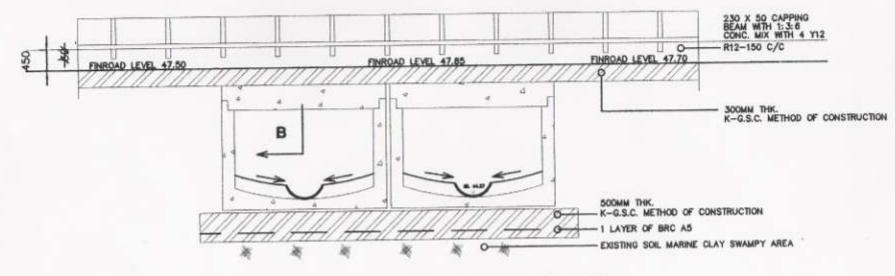
CONVENTIONAL DRAWING

PROPOSED DRAWING

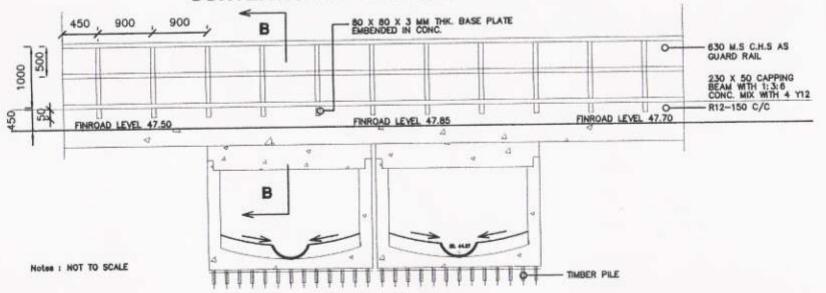


DETAIL OF DRAINAGE

PROPOSED CONSTRUCTION DESIGN OF K-G.S.C. METHOD SWAMPY & MARINE CLAY CONDITION



CONVENTIONAL DRAIN SECTION DRAWING



K-G.S.C USE FOR:-

- Reclamation Works
- Pavement Works
- Drainage Works
- Foundation Works

It is cost saving plus Environmental Friendly Soil Hardening Technology.

Benefits to all Civil Engineering and General Construction Works.

PRICE COMPARISON NORMAL ROAD SUB SURFACE WORKS

CONVENTIONAL

- COST INCUR ON DISPOSAL
- COST VARIES ON QUARRY DUST OR SAND FILL
- COST VARIES ON ROCKS OR CURSHER RUNS
- > TRUCKS OR LORRIES MOVEMENT MANAGEMENT
- > TIME TAKEN FOR SOIL SETTLEMENT
- MAY REQUIRE VERTICAL DRAIN FOR SOFT SOIL

• K-G.S.C METHOD

- REUSED THE DISPOSAL
- COST INCURR ON THE USAGE OF CEMENT
- COST INCURR ON THE USAGE ON KGSC CHEMICAL
- NO TRAFFIC PROBLEMS
- SETTLEMENT IN SITU
- NO VERTICAL DRAIN REQUIRED AND GEO TEXTILES

How much can save?

- Depending on the soil condition, the availability of materials and the transportation cost.
- Safe on Transport, material wastage, time and other intangible wastage especially on the traffic and transportation management.
- Generally there is a cost saving of about 20 to 30 percent

SIRIM TEST REPORT



SIRINE QAS SEN. BIRD. (Company No. 41(13)4-3) No. 1, Puralese Date: Montel, P.O. Ben 7219, Annies 2 47(1) Shak Alam, Schager Datel Florer, Meloysia Tut. 65-054444555444455

TEST REPORT

REPORT NO: 2001 CB0988

PAGE: 1 OF 2

This report is NOT a Quality Assurance Certificate NOR on Approval Permit. This report refers only to samples submitted by the closes to SRIMO QAS Sets, Blod, and tested by SRIMO QAS Sets, Blod. This report shall not be reproduced, except in full and shall not be easify for advertising purposes by any means or forms without writins approved from Executive Director SRIMO QAS Sets, Blod.

Our Ref.

: SQAS/CBMT/T.REC/CSL/02

Issued by

: Construction and Building Materials Testing Section

2 6 DEC 2001

: Concrete Cube

Reference Standard/ Method of test

Method of Testing Concrete
Part 2: Method of testing hardened concrete
Section three: Method for determination of the compressive concrete cabes.

Manufacturer

SURE PHOENIX SDN. BHD. No. 24, 14 Floor, Plaza City One

Jalan Murshi Abdellah 50100 Kuda Lumper

SAMJI DEVELOPMENT CO. LTD.

Description of sample

4 nos. of concrete were received for testing.

Brand: Soil Concrete

Date received

11/12/2001

01TSD3838

Approved Signatories:

The Maney (YM RAJA NOR SIHA Senior Technical Executive

MOND FAUZUSMAIL)

Building Materials Testing Section Jesting Services Department

SIRIM TEST REPORT

TEST REPORT

REPORT NO: 2001CB0988 PAGE: 2 OF 2

Table report is NOT a Quality American Certificate NOS an Approval Permit. Table report refers only to samples submitted by the client to SIRIM QAS 5ds. 8ds. and tested by SIRIM QAS 5ds. 8ds. Table report shall not be reproducted, except to full and shall not be used for obvertibing purposes by any means or forem without vertices approved from

COMPRESSIVE STRENGTH FOR CONCRETE CUBES

Submitted By: Sure Phoenix Sdn. Bhd.

Brand : Soil Concrete Cube

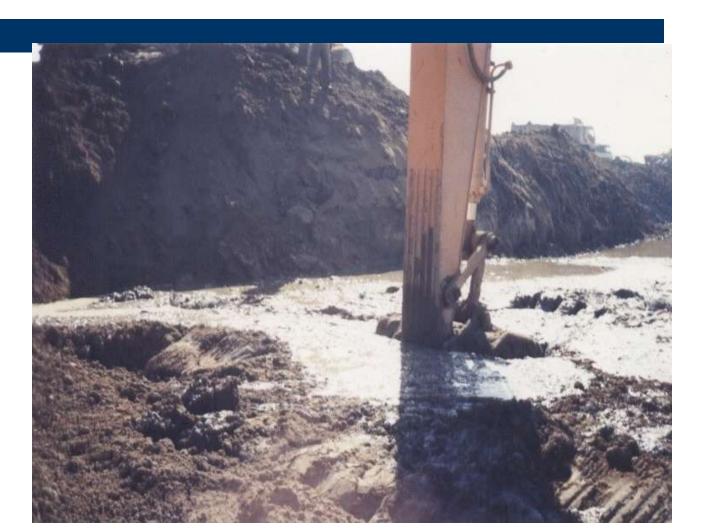
No. of Specimen: 4 Nos.

Size of Specimen: 150 mm x 150 mm x 150 mm.

Testing Date: 11.12.2001.

Specimen Reference	Casting Date	Density (kg/m²)	Compressive Load (kN)	mpressive trength (MN/m²)
WSI	04.12.2001	1310	17.8	0.80
PS 1	13.11.2001	1970	209.3	9.30
NS I	27.11.2001	2250	539.0	24.0
· NS 2	27.11.2001	2200	766.0	34.0

Solidifying the soft soil.



PINTEC PROJECT IN SUNGKAI, PERAK, MALAYSIA



PREPARATION OF EXISTING SOIL

SCALING WORKS – KGSC METHOD

SCALING WORK 1M SAND



MIXING WORKS



SAND 50%
EXISTING MARINE CLAY
SOIL 50%
MIXING WORK

Mokpo Airport Foundation Works



Mokpo Airport Leveling the Foundation



K.G.S.C METHOD OF SOIL HARDENING

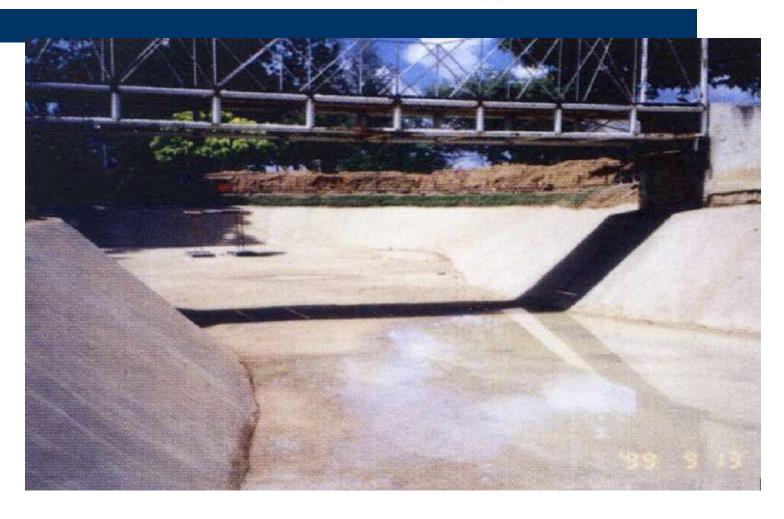
K.G.S.C Project

SLOPE IMPROVEMENT



KGSC DRAINAGE FOUNDATION

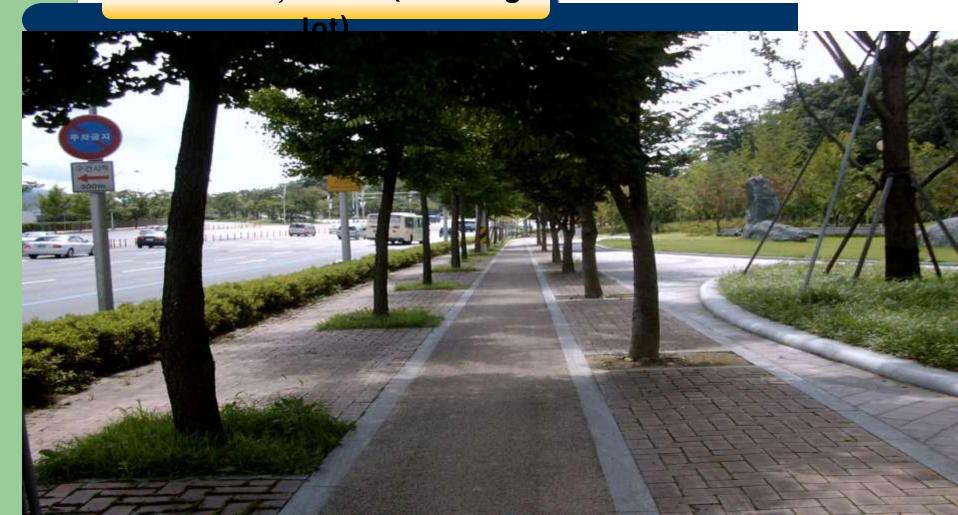
Monsoon Drain KGSC Technology



Examples of application of K-G.S.C method

Chen Nam, Korea (Working

K.G.S.C Project



Examples of application of K-G.S.C method

K.G.S.C Project

Gu Rye, Korea (road construction)



We Can Solve This Soil Problem



GOMBAK SITE PACKAGE 5 GENERAL VIEW (Before)



USING EXCAVATOR TO MIX THE OPC AND SOIL



SPRAYING THE CHEMICAL



Rubbish Soft Mud Oozing Out



Mud Overflow After Compaction



ARRESTING BAD SOIL EXCAVATION



Refilling with KGSC as well as Excavating



Compacting As Filling Up



FINAL COMPACTION



CALL US WE WILL HELP YOU

Manufactur

970-110, WoulChul-Dong

Book-gu, Gwangju, Korea

TEL:+82 62 974 1001

FAX:+82 62 367 9500

A02-3, 4th Floor

Pusat Perdangangan Taman Ampang

Jalan Dagang Besar, 68000, Ampang,

Selangor Darul Ehsan. Malaysia

Contact No: +603 4270 1028/29

Fax. No: +603 4270 1439

Or Email: cchm1611@naver t-gsc@hotmail.com

