

## Photo report

# Creation of a hydraulically bound base layer, rehabilitation of an unpaved road in the region of Gunung Mas/Kalimantan by using the NovoCrete® technology

- Location: Gunung Mas/Indonesia
- Period of execution: November 2012
- Time needed: not yet finished
- Cement: 190 kg/m<sup>3</sup> cement + 2 % NovoCrete
- Milling depth: 35 cm

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## Soil stabilisation by using NovoCrete®



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Ausgangssituation

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Initial situation

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Initial situation

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*Initial situation after heavy rainfall*

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The project

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Preparation of the area

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Road marking



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*Distribution of the cement bags*

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Distribution of the cement bags

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Distribution of the cement

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Start of spreading NovoCrete®

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Check of the spreaded amount of NovoCrete®

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Milling of the cement-Novocrete® mixture up to a depth of 35 cm

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Mixture of soil and binding agent after the first milling procedure

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Milling of the cement-Novocrete® mixture up to a depth of 35 cm by adding water



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*Homogeneous mixture after second milling procedure*

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*Homogeneous mixture after second milling procedure*

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Static and dynamic compaction of the area

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Static and dynamic compaction of the area

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Levelling of the area with a grader

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Close-up of the surface after compaction

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Irrigation of the area

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Irrigation of the area



Area after irrigation



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Finished area

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*The finished road is irrigated several times and then blocked for the traffic*

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*Situation after heavy rainfall*

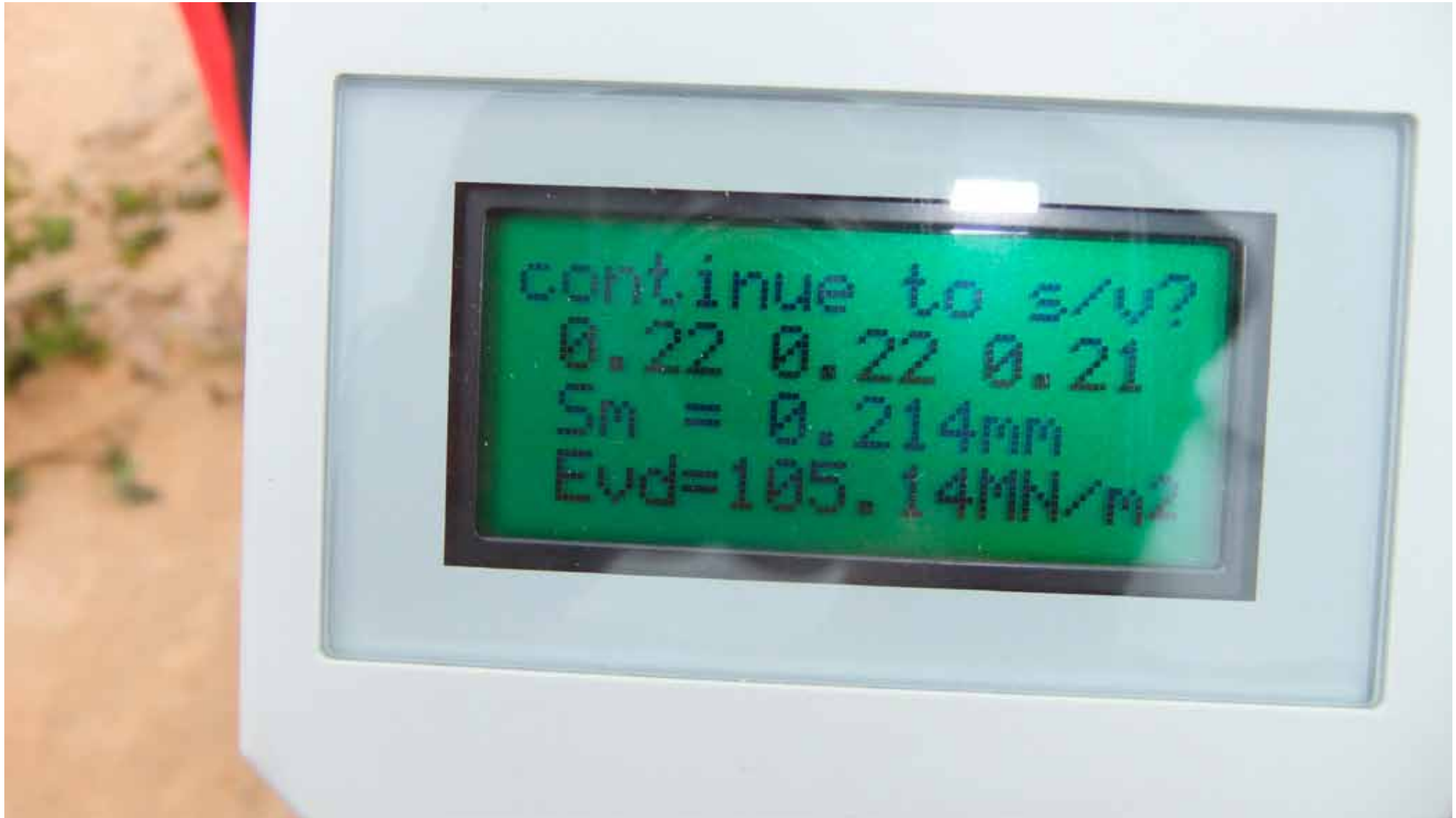


Close-up of surface after being flooded for several days

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Analyse of the load bearing capacity by using a dynamic falling weight drop tester



Analyse of the load bearing capacity by using a dynamic falling weight drop tester

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One lane of the finished road

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*One lane of the finished road*



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One lane of the finished road

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*One lane of the finished road*

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Close-up of finished surface





Close-up of finished surface

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PEMERINTAH PROVINSI KALIMANTAN TENGAH  
DINAS PEKERJAAN UMUM  
UPTD BALAI PENGUJIAN MUTU  
Jalan Tjilik Riwut Km. 3 Telepon (0536) 3222607 Fax (0536) 3222607 Palangka Raya

**TABEL 1  
HASIL PENGUJIAN LAPANGAN**

Pekerjaan : Soil Cement Base (SCB)  
Program : Peningkatan Jalan dan Jembatan  
Kegiatan : Peningkatan Jalan Tumbang Jutuh – Parempel  
Lokasi : Kecamatan Rungan Kabupaten Gunung Mas  
Pelaksana : PT. Panda Jaya Raya

No. Titik	Jenis yang diuji / test	Metode Pengujian	Hasil uji / test	Spesifikasi	Ket.
1	2	3	4	5	6
1	CBR Lapangan umur 35 hari	SNI 03-1738-1989	120.75 %	120 – 200 %	Oke
2	CBR Lapangan umur 11 hari	SNI 03-1738-1989	115.72 %	120 – 200 %	-
3	CBR Lapangan umur 31 hari	SNI 03-1738-1989	116.22 %	120 – 200 %	-
4	CBR Lapangan umur 30 hari	SNI 03-1738-1989	121.75 %	120 – 200 %	Oke
5	CBR Lapangan umur 30 hari	SNI 03-1738-1989	123.26 %	120 – 200 %	Oke

Palangka Raya, 13 Desember 2012

Memeriksa  
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Maladie, ST  
NIP. 19661130 199803 1 002

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*Eker, ST*  
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Mengetahui  
Kepala UPTD Balai Pengujian Mutu  
Manajer Puncak,  
*I. Ertambunan, MM*  
I. Ertambunan, MM  
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PEMERINTAH PROVINSI KALIMANTAN TENGAH  
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**TABEL 2  
HASIL PENGUJIAN LAPANGAN**

Pekerjaan : Soil Cement Base (SCB)  
Program : Peningkatan Jalan dan Jembatan  
Kegiatan : Peningkatan Jalan Tumbang Jutuh – Parempel  
Lokasi : Kecamatan Rungan Kabupaten Gunung Mas  
Pelaksana : PT. Panda Jaya Raya

STA	Jenis yang diuji / test	Metode Pengujian	Hasil uji / test	Rencana	Ket.
1	2	3	4	5	6
12+100	Ketebalan	-	30,00 cm	25 cm	Oke
12+500	Ketebalan	-	24,50 cm	25 cm	-
13+050	Ketebalan	-	27,50 cm	25 cm	Oke
14+150	Ketebalan	-	30,50 cm	25 cm	Oke
15+050	Ketebalan	-	29,32 cm	25 cm	Oke

Palangka Raya, 13 Desember 2012

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