

Photo report

Renovation of the unpaved link road between Ereke and BauBau in the region of North Buton/Sulawesi by using the NovoCrete® technology

· Location: North Buton/Indonesia

• Period of execution: March 2012

• Time needed: 5 days

• Cement: 190 kg/m³ + 2 % NovoCrete

• Milling depth: 30 cm

AUTARK Energy & Infrastructure Solutions GmbH & Co. KG

Brienner Str. 9, D-80333 München, Germany Phone +49 (0) 89-290 97 286 Fax +49 (0) 89-290 97 446 www.autark-energy.com moormann@autark-energy.com







Photo report: Renovation of a link road in North Buton

page 2

Butur 2a section 1 19. + 20.03.2012



Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton



Transportation of the milling unit



Photo report: Renovation of a link road in North Buton



Distribution of cement bags



Photo report: Renovation of a link road in North Buton



Distribution of cement bags



Photo report: Renovation of a link road in North Buton



Manually distribution of cement



Photo report: Renovation of a link road in North Buton



Manually distribution of cement



Photo report: Renovation of a link road in North Buton



Spreading of NovoCrete



Photo report: Renovation of a link road in North Buton



Check of spreaded amount of NovoCrete



Photo report: Renovation of a link road in North Buton



Check of spreaded amount of NovoCrete



Photo report: Renovation of a link road in North Buton



Milling procedure



Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton





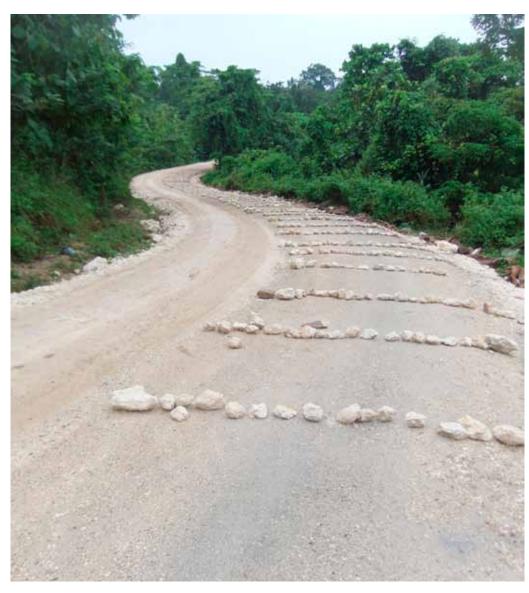
Photo report: Renovation of a link road in North Buton



Surface of finished area



Photo report: Renovation of a link road in North Buton





Finished area blocked for traffic





Photo report: Renovation of a link road in North Buton

page 17

Butur 2a section 1 21. + 22.03.2012



Photo report: Renovation of a link road in North Buton



Spreading of cement



Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton



Situation after the milling procedure



Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton



Finished area



Photo report: Renovation of a link road in North Buton





Finished area blocked for traffic



Photo report: Renovation of a link road in North Buton



Finished area blocked for traffic





Photo report: Renovation of a link road in North Buton

page 27

Butur 2a section 2 21. + 22.03.2012



Photo report: Renovation of a link road in North Buton



Preparation of the rough level



Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton



Distribution of cement bags



Photo report: Renovation of a link road in North Buton



Distribution of cement bags



Photo report: Renovation of a link road in North Buton



Spreading of NovoCrete



Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton



Irrigation of the surface



Photo report: Renovation of a link road in North Buton



Surface of finished area



Photo report: Renovation of a link road in North Buton



Finished area blocked for traffic





Photo report: Renovation of a link road in North Buton

page 38

Butur 2a section 3 24.03.2012



Photo report: Renovation of a link road in North Buton



Transportation of the milling unit



Photo report: Renovation of a link road in North Buton



Distribution of cement bags



Photo report: Renovation of a link road in North Buton



Distribution of cement bags



Photo report: Renovation of a link road in North Buton



Spreading of NovoCrete



Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton





Photo report: Renovation of a link road in North Buton



Finished area blocked for traffic



Photo report: Renovation of a link road in North Buton



Finished area blocked for traffic



Photo report: Renovation of a link road in North Buton



Close-up of the finished surface