A NOTE ON RENOLITH

(A Soil stabilizing agent)

Renolith is a soil stabilizing agent. No road metal/GSB is required as told by the company in Delhi. It is told to be German patented technology and manufactured and marketed by a Thai company. In India use of this agent is not popular due to lack of IRC codes to this technology. A literature "A critical Review of innovative rural road construction techniques and their impacts" by Prof B.P. Chandrashekar may be seen. Cost savings to the tune of 15 to 30% is reported to have achieved as claimed by the selling agent. In Nagaland, a stretch of road leading New Secretariat road in Kohima has been constructed using Renolith. No failure has been observed for last two years and certified to meet to all necessary standards and specifications set by Nagaland PWD.

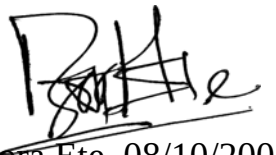
Under Eastern Zone (PWD), it is proposed to be used on RIDF roads on experimental basis. Superintending Engineers shall identify one kilometre of road stretch under his circle during the current working current working season (2007-08). On his finalisation, concern Executive Engineer will undertake soil testing as per requirement of data questionnaire.

For the convenience of the field officers, I am giving the rough consumption of Renolith/Cement as follows : -

Renolith : 3000 litres/Km *(lower dry density)* **to 4000 litres/km** *(higher dry density)*
Cement : 3% *(lower dry density)* **to 11%** *(higher dry density)* **by weight of soil.**
(Renoth used is **5%** by **weight of cement)**

These may be treated as guidelines only. Basing on the test result, the company will supply you the mix design (correct proportion of renolith/cement).

Before the orders are placed to the firm, please get the soil sample tested in a standard laboratory (like RRL, Jorhat/NERIST/Naharlagun) and send the results to the company alongwith the cross of the road for giving you the mix design of Renolith/Cement. Soil sample of one full gunny bag should be suffice the get the test results done as given in the Questionnaire (attached). You will also need to give the cross section of the road (pavement width mainly) to assess the quantity of Renolith agent.



Bora Ete, 08/10/2007