

If you closely watch this pole of this power line, what do you perceive?



I . Mindset Number ONE: clever solution



Competent Engineers thought thoroughly about **TECHNICAL**, economical, and long lasting Solutions: Wooden poles shall not be decomposed early, because the 50 cm high snow loads do not touch the wood.



☒☒☒ II . Mindset No 2, clever solution, as well – but ... ☒☒☒

Clever Engineers + MBAs thought thoroughly about **FINANCIAL** solution, and **effortless options** to improve own wealth **within a short period**.

Bad Workmanship discloses:

- A \_ brittle concrete, less cement quality
- B \_ missing steel reinforcement in quantity and quality.



Actual BUILT-in material Quantity and Quality in ONE m3 concrete Foundations

Measured and paid for the Pole Foundation in compliance with the Specifications and BoQ – item / Unit Rate.

**Less Quantity** 200 kg cement and **minor Quality** instead 400 kg + **LESS Quantity** 100 kg steel and quality instead of 200 kg.

**1 m3 concrete shall contain** 400 kg cement measured and paid in compliance with Specification per m3 RI concrete, and 200 kg steel M&P per m3 Concrete.

**Savings per m3 reinforcement Concrete of B30/37 = 75 Euro/m3 (Asia) due to lack of supervision or conniving ... to reach agreement about unexplainable wealth.**

SAVINGS per m3 reinforced CONCRETE (Unit Rate) in Quantity and Quality  
 > minus 200 kg cement not built in +  
 > minus 100 kg RI steel / m3 concrete

Unjust enrichment  
 200 kg cement minor Qty + Qly @ 0,05 Euro/kg = 10 Euro  
 100 kg minor steel Qty+Qly @ 0,65 Euro/kg = 65 Euro  
**Total 75 Euro savings per m3 RI concrete of UR.**

**AUDITORS** : [www.ppe61.de/01.15+Audit.pdf](http://www.ppe61.de/01.15+Audit.pdf) : Is it correct, Contractors & Engineers mostly not interested to compute **accumulated** quantities – to avoid **transparency** in the **material flow** - ?:  
 A \_ Check the **Records of the Contractor and Consultant / Engineer** about **accumulated DELIVERY** notes, inspections, tests & **proof of payment** of steel, cement, bitumen, fuel quantities.  
 B \_ Compare the **accumulated measured and paid BoQ-Quantities** (Unit Quantities) of concrete & steel measurement of the Permanent Works and paid by BoQ – Unit Rates (Bill of Quantities UR).  
 C \_ **Deviations** between accumulated Quantities and Qualities will reveal conniving / fraudulent conducts or forged documents will cover the gap. Do you concur? [www.ppe61.de/15.6+ADB-Conduct.pdf](http://www.ppe61.de/15.6+ADB-Conduct.pdf)