



| | A | B | C | D | E | F | G | H | I | |
|----|---|---|--------------------|----------------------|---|------------------------|----------------------|---|---|--|
| 1 | |  | Version 0.1.4 | | https://www.dbhd-hlw.de/ + http://www.ing-goebel.de | | | | | |
| 2 | Calculation 7x DBHD nuclear repository south of Kröpelin | | | | | | | | | |
| 3 | Last edit: 12. May 2018 / Dipl.-Ing. Volker Goebel DE / Nuclear Repository Planner ww | | | | | | | | | |
| 4 | Capacity : 2.047 HLW Containers DE / plus 473 HLW Containers from Switzerland | | | | | | | | | |
| 5 | Repository-Storage-Depth : from -2.650 Meters down to -3.350 Meters | | | | | | | | | |
| 6 | Base : Draft-Plans, Pre-Building-Site-Plans / Planning 2014 - 2018 actually Version 1.3 | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | Type of invest | Amount | Offer / Quote | Factor | Total | Comment | dwg | | |
| 10 | | | | or hint from : | | | | | | |
| 11 | | Repository Plans | 2014-2018 (3,5 y.) | Ing. V. Goebel+ | 300'000 € | 1'050'000 € | Draft-Plans, B-Plans | yes | | |
| 12 | | Probe-Drillings | 14 x | Prof. Dr. Reich | 9'000'000 € | 126'000'000 € | Cores > -3.800 m | | | |
| 13 | | Land Purchase | 7 x 0.3 km2 | from local owners | | 35'000'000 € | 7 x 300.000 m2 | yes | | |
| 14 | | Shaft-Boring-Ma. | 2 x | Herrenknecht AG | 60'000'000 € | 120'000'000 € | 2 yrs. delivery time | yes | | |
| 15 | | External streets | 47 km | make-over | | 14'000'000 € | New / enhance | | | |
| 16 | | DB Rail Connection | 3 x | only last meters | | 18'000'000 € | 3 of 6 locations | | | |
| 17 | | E-powerconnection | 7 x | local Vattenfall | | 17'500'000 € | 10 kV med. voltage | | | |
| 18 | | Water-connection | 7 x | incl. water | | 21'000'000 € | 10 bar with DN 200 | | | |
| 19 | | Internal Logistics | | anticipation | | 35'000'000 € | 7 building sites | yes | | |
| 20 | | Drill platform core | 7 x | 43.000 m3 | 1'000 € | 301'000'000 € | floors and walls | yes | | |
| 21 | | Mat. storage ring | 7 x | 70.000 m3 | 900 € | 441'000'000 € | floors and walls | yes | | |
| 22 | | Conveyor Belts | 3 x | | | 60'000'000 € | diverse types | | | |
| 23 | | Heavy load trucks | | | | 8'000'000 € | | | | |
| 24 | | Compensations | 20.000 Shares | direct local people | 30'000 € | 600'000'000 € | payment not bribe | yes | | |
| 25 | | Planning Offices | diverse | many disciplines | | 117'000'000 € | over 10 years | | | |
| 26 | | Approval Fees | | many agencies | | 58'000'000 € | to Gov. Agencies | | | |
| 27 | | Startfound. SBM | 7 x | | 3'000'000 € | 21'000'000 € | temp. Structures | | | |
| 28 | | Shaft Drills D=12 m | 7 x | | 50'000'000 € | 350'000'000 € | autom. Maschine | | | |
| 29 | | Spray-concr.-wall | 9,3 m2 x 3.350 m | 31.155m3 x 7 | 600 €/m3 | 131'000'000 € | steel-fibre-amored | yes | | |
| 30 | | Shaft completion | 3 sets | 4 companies | 46'000'000 € | 138'000'000 € | Vent., Transport | | | |
| 31 | | Air-Conditioning | 7 x | | 10'000'000 € | 70'000'000 € | cold air IN | | | |
| 32 | | Cable-Drum-Houses | 7 x | 140.000 m3 | 1'000 € | 980'000'000 € | Drum-Diam.=24 m | | | |
| 33 | | Work-Over Rigs | 2 x | Steelbuilders | 3'200'000 € | 6'400'000 € | with return pulley | | | |
| 34 | | Steel-Cables CH | 11 x | Fatzer | 4.600.000 | 50'600'000 € | D = 60 mm | | | |
| 35 | | Transition Cone | 7 x | concrete constr. | 1'100'000 € | 7'700'000 € | 12 m. to 23,3 m. | | | |
| 36 | | Hole-opening | 7 x | to Diam.=23,3 m. | 12'000'000 € | 84'000'000 € | with chain-saws | | | |
| 37 | | Staff 11,6 years | | | | 64'000'000 € | Work & Safety | | | |
| 38 | | Rocksalt-Salt-Sale | 7 x 500.000 m3 | rough quality | 50 €/m3 | -175'000'000 € | Asse/M./Gorleben | K+S | | |
| 39 | | Concrete-Pellets | 315 x | 6.634 m2 x 315 | 600 €/m3 | 1'254'000'000 € | Quality-Concrete | yes | | |
| 40 | | Closure works | 7 x | | | 70'000'000 € | Salt + M. Pressure | | | |
| 41 | | building back | 7 x | | | 14'000'000 € | farmland again | | | |
| 42 | | Unforseeables | 12% | | | 604'590'000 € | not BER airport | | | |
| 43 | | Total | in May 2018 | | | 5'642'840'000 € | | | | |
| 44 | | | | | | | | | | |
| 45 | | | | | | | | | | |
| 46 | | plus HLW containers, plus rail-transport, plus law-cases | | | | | 5,65 Mrd. EUR |  | | |
| 47 | | | | | | | | | | |
| 48 | | | | | | | | | | |
| 49 | | | | | | | | | | |