



A	B	C	D	E	F	G	H	I
1		Version 0.2.0	https://www.dbhd-hlw.de/ + http://www.ing-goebel.de					
2	Calculation 8x DBHD nuclear repository south of Kröpelin							
3	Last edit: 31. Dezember 2018 / Dipl.-Ing. Volker Goebel DE / Nuclear Repository Planner ww							
4	Capacity : 2.047 HLW Containers Germany / plus 577 HLW Containers from Switzerland							
5	Repository-Storage-Depth : from -2.650 Meters down to -3.350 Meters							
6	Based on : Draft-Planning from 2014 - 2018 actually in Version 1.4 with Time Table							
7								
8								
9	Type of invest	Amount	Offer / Quote	Factor	Total	Comment	dwg	
10			or hint from :					
11	Repository Plans	2014-2018 (4 yrs)	Ing. V. Goebel+T.	375'000 €	1'875'000 €	Draft-Plans, B-Plans	yes	
12	Probe-Drillings	16 x	Prof. Dr. M. Reich	8'500'000 €	136'000'000 €	Cores > -3.800 m		
13	8x Land Purchase	7,7 km2	from local owners		88'000'000 €	8 x 110.000 m2	yes	
14	Shaft-Boring-Ma.	2 x SBM	Herrenknecht AG	60'000'000 €	120'000'000 €	2 yrs. delivery time	yes	
15	External streets	54 km	make-over		16'000'000 €	new / enhance		
16	DB Rail Connection	4 x	only last meters		24'000'000 €	4 of 8 locations		
17	E-powerconnection	8 x	local Vattenfall		20'000'000 €	10 kV med. voltage		
18	Water-connection	8 x	incl. water		24'000'000 €	10 bar with DN 200		
19	Internal Logistics		anticipation		40'000'000 €	8 building sites	yes	
20	Drill platform core	8 x	43.000 m3	1'000 €	344'000'000 €	floors and walls	yes	
21	Mat. storage ring	7 x	70.000 m3	900 €	504'000'000 €	floors and walls	yes	
22	Conveyor Belts	4 x			80'000'000 €	diverse types		
23	Heavy load trucks				12'000'000 €	MB Dump trucks		
24	Compensations	20.000 Shares DE	direct local people	30'000 €	600'000'000 €	payment not bribe	yes	
25	Compensations	5.667 Shares CH	direct local people	30'000 €	170'000'000 €	payment not bribe	yes	
26	Planning Offices	Scientific expertise	many disciplines		164'000'000 €	over 14 years		
27	Approval Fees		many agencies		66'000'000 €	to Gov. Agencies		
28	Startfound. SBM	8 x	Thyssen Schachtbau	3'000'000 €	24'000'000 €	temp. Structures		
29	Shaft Drills D=12 m	8 x	Thyssen Schachtbau	50'000'000 €	400'000'000 €	autom. Maschine		
30	Spray-concr.-wall	9,3 m2 x 3.350 m	31.155 m3 x 8	600 €/m3	150'000'000 €	steel-fibre-amored	yes	
31	Shaft completion	4 sets	Siemag Tecberg	46'000'000 €	184'000'000 €	Vent., Transport		
32	Air-Conditioning	8 x	Siemag Tecberg	10'000'000 €	80'000'000 €	cold dry air IN		
33	Cable-Drum-Houses	8 x	140.000 m3 S.T.	1'000 €	1'120'000'000 €	Drum-Diam.=14 m		
34	Work-Over Rigs	3 x	Steelbuilders	3'200'000 €	9'600'000 €	with return pulley		
35	Dyneema Ropes	13 x	Gleistein DE	4.600.000	58'800'000 €	D = 80 mm		
36	Transition Cone	8 x	concrete constr.	1'000'000 €	8'000'000 €	12 m. to 21 m.		
37	Hole-opening	8 x	to Diam. = 21 m.	9'000'000 €	72'000'000 €	with chain-saws		
38	Staff 80 years	50 Man&Woman	4 h. shifts down t.		457'000'000 €	Work & Safety		
39	Rocksalt-Salt-Sale	8 x 500.000 m3	rough quality	50 €/m3	-200'000'000 €	Asse/M./Gorleben	K+S	
40	Concrete-Pellets	328 Pellets	5.280 m2 x 328	600 €/m3	1'040'000'000 €	Quality-Concrete	yes	
41	Sand/fine gravel	328 Layers 2m	692 m3 x 328	70 €/m3	159'000'000 €	D = max. 3 mm		
42	Magnetit powder	328 Portions	264 m3 x 328	680 €/m3	59'000'000 €	Rio Tinto, Billiton		
43	Closure works	8 x	own Salt grain		80'000'000 €	Salt + M. Pressure		
44	building back	8 x			16'000'000 €	farmland again		
45	Unforseeables	4%			245'091'000 €	not BER airport		
46	Total	December 2018	Version 20		6'372'366'000 €			
47								
48								
49	plus HLW containers, plus rail-transport, plus law-cases					6,4 Mrd. EUR		
50								
51								
52								