

		Design Co., Ltd.		Equipment list		Project name		Zambia 1000T Annual Copper hydrometallurgy			Design phase				
						Item name		Investment budget			Preliminary design Profession				
No.	Item no.	Type	Technical performance	Unit	Qty.	Electric motor					Unit Price	Total amount	Remark		
						Unit weight		Total weight	Qty.	Unit power	total capacity	10,000 RMB		10,000 RMB	
						(kg)		(kg)	(台)	(kw)	kw				
<b>Crusher station</b>															
1	P001	Front wheel loader	ZL50	Sets	1							38.82	38.82		
2	P1002	Raw ore bin	60m³	Sets	1							27.41	27.41		
3	P1003	Stainless steel mixer	80t/h	Sets	2				2	11	22	27.06	54.12	SS316L	
4	P1004	Pump of concentrated acid	G40-1	Sets	2				2	1.1	2.2	1.00	2.00	Q=15/H=40 6 Steps	
5	P1005	Slurry tank	Φ6000*6500	Sets	1					15	15	9.41	9.41	Pp+316L	
6	P1006	Slurry pump	XPA300/150	Sets	2					22	44	2.66	5.32	Q=200H=40	
7	P1007	Frequency converter	15GS	Sets	1							-	-		
8	P1008	Hydrocyclone	XCN- II 250	Sets	2							1.05	2.09		
9	Control box		Sets												
						Total amount:120.05*10000RMB									
<b>Leaching</b>															
1	J2001	Agitation leaching tank	Φ4000*4500	Sets	4					15	60	8.24	32.94	Pp+316L Retrofit equipment	
2	J2002	Antkorrosive slurry pump	6/4D-AH Q=100/H=20	Sets	2					18.5	60	4.35	8.71	Q=100/H=20 Corrosion resistant	
3	J2003	Storage tank for leaching	15000*20000*3000	Sets	2							2.62	5.25	HDPE Site construction	
4	J2004	Deep cone concentrator	Φ8000*10000	Sets	1							41.18	41.18	Steel+PVC Corrosion	
5	J2005	lixivium tank	IHF150-125-250 Q=100/H=20	Sets	2				2	11	22	1.83	3.66	resistance/frequency conversion	
6	J2006	Leachate variable frequency governor	FRN11G1S-4C	Sets	1				1	11		1.08	1.08	1to2	
7	J2007	Raffinate storage	15000*20000*3000	Sets	2							2.62	5.25	HDPE Site construction Corrosion	
8	J2008	Raffinate pump	IHF150-125-250 Q=100/H=20	Sets	2				2	11	22	1.83	3.66	resistance/frequency conversion	
9	J2009	Raffinate frequency converter	FRN11G1S-4C	Sets	1				1	11		1.08	1.08	1to2	
10	J2010	Tank for washing solution	15000*20000*3000	Sets	2							2.62	5.25	HDPE Site construction Corrosion	
11	J2011	Washing liquid pump	IHF150-125-250 Q=100/H=20	Sets	2				2	11	22	1.83	3.66	resistance/frequency conversion	
12	J2012	Wash fluid frequency converter	FRN11G1S-4C	Sets	1				1	11		1.08	1.08	1to2	
13	J2013	New water storage pool	15000*20000*3000	Sets	2							2.62	5.25	Corrosion resistance/frequency conversion	
14	J2014	New pump	IHF125-100-200 Q=100/H=50	Sets	2				2	15	22	1.83	3.66	Ordinary pump / fire pump	
15	J2015	New pump frequency converter	FRN15G1S-4C	Sets	1				1	15		1.28	1.28	1to2	
16	J2016	Leachate flowmeter	W800	Sets	1							0.47	0.47	Ultrasonic card	

17	J2017	Raffinate flowmeter	W800	Sets	1						0.47	0.47	Ultrasonic card
18	J2018	Wash liquid flow meter	W800	Sets	1						0.47	0.47	Ultrasonic card
19	J2019	New water flow meter	W800	Sets	1						0.47	0.47	Ultrasonic card
20	J2020	Accident pump	65HYF-20 L=1000	Sets	4		4	5.5	22		1.84	7.34	Explosion-proof motors
21	J2021	PP Material Vacuum tank	1200L	Sets	4						0.71	2.82	PP Double head
23	J2022	Concentrated sulfuric acid tank	200t	Sets	1								field fabrication
24	J2023	Solvent tank	40t	Sets	1								Retrofit equipment
25	J2024	Concentrated sulfuric acid pump	CQB32-160FT	Sets	2			5.5	11		1.79	3.58	Fluorine alloy magnetic pump
26	J2025	Concentrated sulfuric acid ultrasonic flowmeter	W800	Sets	1						0.59	0.59	Ultrasonic external card type
27	J2026	Bolt	Φ8 ~ 22mm Common stainless steel	Sets	2000 120								
28	J2027	Acid resistant rubber sheet	5mm	Sets	3								
29	J2028	Instrument	Clamp, electric, welding	Sets	各2							2	Prepared
30	J2029	Plastic welding equipment	Hand-held plastic welding torch	Sets	3						0.03	0.09	
31	J2030	PP pipeline Geomem brane	Φ32	Meter	2000						0.06	120	100m/plate
32	J2031			m <sup>2</sup>	5000						0.03	163	

Total amount: 135.15\*10000RMB

三 Extraction													
1	C3001	Extraction mixing chamber	2000x2000x2400	Sets	4						2.59	10.38	Field fabrication
2	C3002	Extraction clarification chamber	7000x8000x1200	Sets	4						7.21	28.82	Field fabrication
3	C3003	Extraction tank mixer	XLD-8-11-11	Sets	4		4	11	44		1.5	5.98	Cycloidal pin wheel
4	C3004	Extractor agitator rack	Q235B-200	Sets	4						1.02	4.09	Field fabrication
5	C3005	Extraction tank PVC buffer tank	1200x600x600	Piece	4						0.42	1.69	Field fabrication
6	C3006	Frequency converter	FRN11G1S-4C	Sets	1		1	11			1.08	1.08	1 to 2
7	C3007	Organic phase storage tank	7000x8000x1500	Sets	1						5.44	5.44	Field fabrication
8	C3008	Electric lean liquid degassing tank	6000x5000x1500	Piece	1						3.31	3.31	PP Material
9	C3009	Electric rich liquid deoiling tank	7000x8000x1500	Sets	1						5.44	5.44	Field fabrication
10	C3010	Washing fluid deoiling tank	7000x8000x1500	Sets	1						5.44	5.44	Field fabrication
11	C3011	Raffinate deoiling tank	7000x8000x1500	Sets	1						5.44	5.44	Field fabrication
12	C3012	Dual media filter	Φ5000*3000	Sets	2						4.59	9.18	On-site production and processing
13	C3013	Organic phase transfer pump	IHF150-125-250 Q=100/H=20	Sets	2		2	11	22		1.83	3.66	Corrosion resistant / explosion proof frequency conversion
14	C3014	Electric lean transfer pump	IHF150-125-250 Q=50/H=20	Sets	2		2	11	22		1.83	3.66	Corrosion resistant / explosion proof frequency conversion
15	C3015	Electric rich liquid deoiling tank	IHF150-125-250 Q=50/H=20	Sets	2		2	11	22		1.83	3.66	Corrosion resistant / explosion proof frequency conversion



16	D4015	Air compressor	30m³/h	Sets	1							1.01	1.01	
17	D4016	Electronic scale	LD5t	Sets	1							0.54	0.54	
18	D6019	Electric single beam crane	LK10.5m/h6.5m/5t	Sets	1				4	15+2.2+4		6.59	6.59	Ground remote operation
19	D6019	Accident pump	HYF80-10	Sets	4				4	4	16	1.2	4.8	L=1000
<b>Total amount:331.39*1000RMB</b>														
<b>五 Electric power</b>														
1	D5001	Power transformer	350KVA	Sets	350									
2	D5002	Power supply feeder cabinet	GGD2-38	Sets	1							2.71	2.71	
3	D5003	Low voltage switchgear cabinet	GGD2-38	Sets	5							2.71	13.53	
4	D5004	Reactive power Compensation cabinet		Sets	1							4.71	4.71	
5	D5005	Power cable	2.5 ~ 400 square	米	6000								150	Plastic set of cable
6	D5006	Lighting facilities	Various types of lamps	Sets	300								2	
<b>Total amount:173.8*1000RMB</b>														
<b>六 Hydraulic</b>														
1	S6001	Living water storage pool	20m³	Sets	1									Prepared
9	S6009	Portable storage pressure dry powder fire extinguisher	MFZL-8	Sets	26									
10	S6010	Trolley type storage pressure dry powder fire extinguisher	MFTZL-35	Sets	6									
<b>Total amount: 3*1000RMB</b>														
<b>七 Communication office</b>														
1	T7001	Motorola walkie-talkie	GP2000	Sets	10							0.04	0.4	Handheld 5W
2	T7002	Office	Computer, copy, printer	Sets									2	
<b>Total amount : 2.36*1000RMB</b>														
<b>八 Steel</b>														
	Welded pipe	Φ32		Meter	300		1.82	0.546			3600	0.23	69.39	
		Φ40			180		2.98	0.5634			3600	0.23	40.89	
		Φ50			80		4.01	0.3208			3600	0.14	10.87	
		Φ150			108		19.55	2.114			3600	0.89	96.56	
	Angle steel	50*50*4*6000		Meter	380		3.06	1.168			3300	0.45	172.12	
		70*70*5*6000			258		5.82	1.502			3300	0.58	150.55	
	Channel steel	100 10b			40		10.007	0.4			3400	0.16	6.4	
		140 14a			564		14.535	8.197			3400	3.28	1851.25	
		160 16b			48		19.752	0.948			3400	0.38	18.18	
		200 20b			264		25.777	6.08			3400	2.43	641.99	
	I-beam	300 Equilateral			96		52.7	5.059			3600	2.14	205.55	
		200 Equilateral				120		36	4.32		3600	1.83	219.53	
		200 20a				168		32	5.376		3600	2.28	382.45	
		160 16b				660		20.5	13.53		3600	5.73	3781.41	
		140 14b				60		16.9	1.014		3600	0.43	25.76	
		40*3				300		0.936	0.28		4280	0.14	42	Ground wire
	100*5				340		3.9	1.326		4280	0.67	227.2	Stirred tank plate	
	Diamond plate	4mm		m²	97.5		31.2	3.042			4300	1.43	139.6	
	Steel plate	n16			32		124.8	3.994			4200	1.97	63.13	
		n14				32		109.2	3.494		4200	1.64	52.63	
		n12				12		93.6	1.123		4200	0.55	6.64	



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