

Investment Budget of 1 T/d Cathode Copper

Crusher station

Item No.	Specification	Type	Power (KW)	Qty. (sets)	U. Price (10,000 RMB)	Total (10,000 RMB)	Remark
1	30m ³ ore storage bin			1			
2	Vibration feeder			1			
3	Jaw crusher	600x900		1			
4	Belt conveyor	500x8000		1			
5	Cone crusher	900		1			
6	Double circle vibration screen			1			
7	Belt conveyor	500x1200		3			
8	Front wheel loader	50		1			
9	Short distance transport vehicles			2			
10	Electronic belt scale						

Leaching system

1	Agitation leaching tank	3000x3500	11	3	4.5	13.5	Pp+316
2	Plate frame filter press	100m ²	11+4+4	2	9	18	Auto.
3	Filter press pump	Q=30 H=60	37	2	2.2	4.4	PTEE
4	Storage tank for leaching	500m ³		1	15	15	Brick+PVC
5	Transfer pump for leaching	Q=30, H=15	11	2	0.8	1.6	PTEE
6	Ultrasonic flow meter	W800		1	0.35	0.35	Cassette
7	VVVF	5G11		1	0.46	0.46	Normal.
8	Raffinate storage	500m ³		1	15	15	Brick+PVC
9	Transfer pump for raffinate	Q=30 H=15	11	2	0.8	1.6	PTEE
10	VVVF	5G11		1	0.56	0.56	Normal
11	Control box	GGD800		1	0.8	0.8	
12	Tank for H ₂ SO ₄	50T		1	9.5	9.5	A3

Extraction system

1	Extracting tank	4000x55000x1000		4	4.2225	16.89	Site fabrication
2	Stir system	XLD-6-7.5	7.5	4	0.92	3.68	Standard
3	VVVF	5G11		4	0.4	1.6	
4	Organic tank	15m ³	2		0.62	1.24	Brick+PVC
5	Transfer pump for Organic	Q=30, H=15	11	2	0.8	1.6	PTEE
6	Ultrasonic flowmeter	W800		1	0.35	0.35	Cassette
7	VVVF	5G11		1	0.4	0.4	
8	Tank for washing solution	20m ³		1	0.62	0.62	Brick+PVC
9	Transfer pump for washing solution	Q=20, H=15	7.5	2	0.55	1.1	PTEE
10	Ultrasonic flowmeter	W800		1	0.35	0.35	Cassette
11	VVVF	5G11		1	0.4	0.4	
12	Extract reagent			6T	8.9	53.4	
13	No.260 solvent oil			50T	1.1	55	
14	Dry power extinguisher	MFZL-8		20	0.008	0.16	Handheld
15	Dry power extinguisher	Φ3000		1	2.7	2.7	Site fabrication
16	Feculence	Φ1500	2.2	1	1.04	1.04	Site fabrication
17	Plate frame filter press	30m ²	4	1	3.3	3.3	Manual
18	Filter press pump	Q=10 H=50	11	1	1.35	1.35	PTEE
19	Emergency pump	Q=20 H=20	4	1	0.86	0.86	
20	Suction pump	Q=10 H=10	1.5	4	0.18	0.72	
21	Tank for solvent oil	20m ³		1	7.35	7.35	A3
22	PVC Pipe	Φ110—Φ160		330m		3.69	PVC
23	Valves	Φ110—Φ160		46		3	PVC

Electro-deposition

1	PVC electro-deposition	3500x900x1200		18	0.696	12.528	Site fabrication
2	Lead anode plate	600x880x6		450	0.12	54	Quaternary alloy

3	Ti cathode plate	700x920x3.25		50	0.155	7.75	Ti2
4	Copper conduction rod	22x22x1060		650	0.013	8.45	T2 Cu
5	Conduction copper platoon	150x12		0.4t	5.5	2.2	T2 Cu
6	PP washing tank	3500x900x1200		2	1.012	2.024	Site fabrication
7	Purifier	1T/h	2.2	1	1.58	1.58	
8	Plate shearer	1300	7.5	1	3	3	
9	Cathode hanger	25 pairs hook		1	2.6	2.6	316L
10	Frame for cathode	3500x800x1200		1	0.26	0.26	A3, Site fabrication
11	Monospar hoist	3T-lk 10.5	5.5+18.5+2.2	1	3.8	3.8	Insulation
12							
13	Electronic scale	3T		1	0.26	0.26	
14	Hand baling press			1	0.04	0.04	
15	High frequency rectifier	5000A/50V	250	1	12	12	
16	Oil breakaway tank for prepared electrolyte	15m³		4	0.62	2.48	Brick+PVC
17	Pump for prepared electrolyte	Q=30 H=15	11	2	0.8	1.6	PTEE
18	VVVF	G11		2	0.4	0.4	
19	Ultrasonic flow meter	W800		1	0.35	0.35	Cassette
20	Degassing tank for electro-deposited liquid	15m³		1	0.62	0.62	Brick+PVC
21	Pump for electro-deposited liquid	Q=20 H=15	7.5	2	0.55	1.1	PTEE
22	VVVF	G11		1	0.4	0.4	
23	Ultrasonic flow meter	W800		1	0.35	0.35	Cassette
Power							
1	Electric transformer	550KVA		1			Outside
2	Low voltage distribution cabinet	DDG800		4	0.8	3.2	
3	Power cable						
Communication							
1	Interphone	J300		8	0.035	0.28	Handheld
Laboratory							
1	Reagent + Equipment					2.2	Full set
Office							
1	Computer						
2	Table & chairs						
3	Printer						
4	Fax machine						
5	Scanner						
6	Air-condition						
7	Paper crusher						
8	Water boiler						
9	Car						
10	Meeting public address system						
Living quarter							
1	Dormitory						
2	Dining room						
3	Bath room						
4	Rest room						

Remark:

1. All above equipment price is the current market price, details price is based on actually purchase.
2. Price of Extract reagent, solvent oil are related to international oil price.
3. Copper conductive rod, lead anode plate etc. are related to international non-ferrous metals price.
4. If there is nature gradient, solution can take automatically flow method, it can saving invest.
5. If local nature geographic weather allowed, workshop can't take heating measure, so that can saving invest on heating part.
6. Above price don't contain workshop and construction position.