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NAIROBI



Ref. No. DFN 415/232/011

9th October, 2015

The Principal Secretary
Ministry of Energy and Petroleum
P.O. Box 30582
NAIROBI



**RE: EXEMPTION OF VAT – AMU POWER COMPANY LIMITED - 960 MW
LAMU COAL FIRED-POWER PLANT**

The Principal Secretary, Ministry of Energy and Petroleum vide their letter ME/CONF/3/2/73A dated 19th June, 2015 on the above subject.

In accordance with the provisions of Item 29 of the First Schedule of the VAT Act, the Cabinet Secretary, National Treasury on **23rd September, 2015**, approved remission of VAT in respect of materials, plant and equipment being imported or purchased locally by **M/s Amu Power Limited**, being a consortium led by Gulf Energy Limited and Centum Investment Company Limited to develop the 960 MW Lamu Coal-fired Power Plant in Manda Bay, Lamu County. The project is to commence on **13th January, 2015** and will be due for completion on **30th September, 2019**.

The details of the materials and equipment to be imported/ purchased locally are as contained in the table below:

No.	Device Name Equipment	Unit	Qty	Unit Price	Value USD
1	Coal-fired boiler, 1100t/h, 25.4Mpa, 571°C, super critical pressure, variable-pressure operation, single hearth, single intermediate reheating, balanced ventilation, semi-outdoor installation, dry ash extraction, full-steel frame, full suspension structure	1 Unit	3.00	46,102,941.18	138,308,823.53
2	Generator, with rated power of 350MW (excitation power deducted), water-hydrogen-hydrogen cooled, self-shunt static excitation system	1 Unit	3.00	12,014,705.88	36,044,117.65
3	Turbine, super critical, single intermediate reheating, uniaxial double-cylinder two-row condensing type, with rated power of 350MW; rated steam parameters: 24.2MPa, 566°C upstream of main steam valve; 4.016MPa, 566°C upstream of reheating steam valve	1 Unit	3.00	25,147,058.82	75,441,176.47
4	220V DC cabinet	Face Panel	24.00	16,764.71	402,352.94

5	220V battery bank: 1200Ah valve-controlled sealed lead-acid battery	Group	6.00	52,305.88	313,835.29
6	400kV optical fault location	Face Panel	1.00	33,529.41	33,529.41
7	SCADA monitoring system of 400kV step-up station (7 cabinets)	Sleeve Set	1.00	279,411.76	279,411.76
8	DC cabinet of 400kV step-up station	Face Panel	4.00	16,764.71	67,058.82
9	400kV fault recording cabinet	Face Panel	1.00	33,529.41	33,529.41
10	400kV circuit breaker protection cabinet	Face Panel	6.00	50,294.12	301,764.71
11	400kV busbar protection cabinet	Face Panel	4.00	50,294.12	201,176.47
12	400kV line protection cabinet	Face Panel	4.00	50,294.12	201,176.47
13	400kV line watt-hour meter cabinet	Face Panel	2.00	25,147.06	50,294.12
14	High-frequency switching power supply, 100A	Sleeve Set	1.00	22,352.94	22,352.94
15	Carrier	One Unit	2.00	41,911.76	83,823.53
16	Total distribution cabinet (below loop) 1000	Stand Nr.	1.00	13,970.59	13,970.59
17	Telephone	Sleeve Set	1.00	22,352.94	22,352.94
18	Digital program-controlled exchange, 50 pieces	Sleeve Set	1.00	83,823.53	83,823.53
19	Electric power collecting and managing system	Sleeve Set	1.00	111,764.71	111,764.71
20	Maintenance-free battery 300Ah 48V	Group	1.00	13,970.59	13,970.59
21	HV plant transformer, SFF-45000/20TH 45000/28000-28000kVA; 20±2X2.5%/6.9kV D,yn11-yn11; Udf=17%; bushing current transformer at the 20kV side: LR-20, 2000/5A, 0.5S/5P20/5P20, 3 pieces; LRD-20, 15000/5A, TPY/ TPY, 3 pieces	One Unit	3.00	977,941.18	2,933,823.53
22	Dry-type transformer, 1000kVA, 6.6±2×2.5%/0.4kV, Ud=6%, Dyn11	One Unit	6.00	41,911.76	251,470.59
23	Dry-type transformer, 630kVA, 6.6±2×2.5%/0.4kV, Ud=6%, Dyn11	One Unit	3.00	22,352.94	67,058.82
24	Dry-type transformer, 1250kVA, 6.6±2×2.5%/0.4kV, Ud=6%,Dyn11	One Unit	4.00	55,882.35	223,529.41
25	Dry-type transformer, 1600kVA, 6.6±2×2.5%/0.433kV, Ud=6%,Dyn11	One Unit	6.00	69,852.94	419,117.65
26	Dry-type transformer, 2000kVA, 6.6±2×2.5%/0.4kV, Ud=8%,Dyn11	One Unit	4.00	83,823.53	335,294.12
27	Dry-type transformer, 2500kVA, 6.6±2×2.5%/0.433kV, Ud=6%,Dyn11	One Unit	6.00	111,764.71	670,588.24
28	Transformer for dHV station SFFZ-45000/420TH 45000/28000-28000kVA; 420±(-6~+10)X1.25%/6.9kV-6.9kV D,yn11-yn11; Udf=17%; 420kV side bushing current transformer: LR-420, 100/1A, 0.5S/5P30/5P30, 3	One Unit	1.00	1,620,588.24	1,620,588.24
29	400kV transformer SFP-420000/400TH; 400MVA; (ONAN/ONAF) Three-phase oil-immersed air-cooled forced transformer, 420 2X2.5%/20kV Y0, d11 400kV side bushing current transformer: LRD-400, 800/1A, 5P30/0.5/0.2S, 3; neutral side busing current transformer;	One Unit	3.00	4,191,176.47	12,573,529.41
30	Combined filter	Sleeve Set	2.00	1,397.06	2,794.12
31	Wave trapper phase-phase	Sleeve Set	2.00	6,985.29	13,970.59
32	400kV SF6 full enclosed switchgear (GIS)	Interval Bay	9.00	1,676,470.59	15,088,235.29

33	Neutral grounding resistor box for transformer 400A, 9.53ohm	One Unit	8.00	11,176.47	89,411.76
34	Zinc oxide lightning arrester: Y10W-390/900 (with two-pointer counter for leakage current monitoring)	One Unit	18.00	5,588.24	100,588.24
35	Coupling capacitor	Group	2.00	5,588.24	11,176.47
36	Control panel/console program control device for coal handling 300MW and above	Sleeve Set	1.00	530,882.35	530,882.35
37	400kV testing and control panel	Block Nr.	9.00	27,941.18	251,470.59
38	Remote control panel, including telemechanical apparatus and time indentifying facility with GPS	Block Nr.	1.00	27,941.18	27,941.18
39	415V PCC switchgear 415V	One Unit	140.00	16,764.71	2,347,058.82
40	LV PC cabinet 415v 31.5KA	One Unit	2.00	16,764.71	33,529.41
41	415V MCC switchgear 415V	One Unit	123.00	13,970.59	1,718,382.35
42	Diesel generator unit550kW	Sleeve Set	3.00	307,352.94	922,058.82
43	Containerized diesel generator unit 5570kW diesel generator unit	Sleeve Set	8.00	2,514,705.88	20,117,647.06
44	AC uninterrupted power supply of unit 80kVA	Sleeve Set	3.00	111,764.71	335,294.12
45	Structure and road lighting small power box	One Unit	30.00	419.12	12,573.53
46	Dry type transformer 315kVA, 11±2×2.5%/0.4kV, Ud=4%, Dyn11	One Unit	1.00	13,970.59	13,970.59
47	Dry type transformer 400kVA, 0.4±2×2.5%/0.38kV, Ud=6%,Dyn11	One Unit	2.00	18,161.76	36,323.53
48	MIS has SIS function.	Sleeve Set	1.00	1,816,176.47	1,816,176.47
49	Distributed control systems of the unit includes DAS, MCS, SCS, FSSS, ECS and BPS, including equipment such as 5 station operators (including large screen), 1 engineer station, 3 printers, 1 historical station, system cabinet, relay cabinet, communication	Sleeve Set	3.00	1,117,647.06	3,352,941.18
50	BPC bypass control system	Sleeve Set	3.00	111,764.71	335,294.12
51	The mechanical monitoring & analysis system is based on the diagnostic analysis system of microprocessor, and vibration measuring equipment include 6 sets of primary, air supply fans and induced draft fans respectively, 3 sets of motor-driven feed pumps,	Sleeve Set	1.00	167,647.06	167,647.06
52	Soot blowing power system for boiler	Sleeve Set	3.00	55,882.35	167,647.06
53	Circulating cooling water system	Sleeve Set	1.00	83,823.53	83,823.53
54	Control system for diesel generator	Sleeve Set	1.00	111,764.71	111,764.71
55	Control system for fuel pump house	Sleeve Set	1.00	139,705.88	139,705.88
56	Control system for air compressor station	Block Nr.	1.00	55,882.35	55,882.35
57	Water charging system for boiler	Sleeve Set	1.00	558,823.53	558,823.53
58	Ash control system and instrument	Sleeve Set	1.00	111,764.71	111,764.71
59	Power cabinet	One Unit	59.00	8,382.35	494,558.82
60	Solenoid valve cabinet	One Unit	131.00	8,382.35	1,098,088.24
61	Large Screen 65"	Sleeve Set	4.00	41,911.76	167,647.06
62	Digital Instrument Panel	Sleeve Set	1.00	195,588.24	195,588.24
63	Boiler Flame Detector	Sleeve Set	3.00	167,647.06	502,941.18
64	BOP Mesh	Sleeve Set	1.00	251,470.59	251,470.59
65	Whole Plant Industrial CCTV System	Sleeve Set	1.00	488,970.59	488,970.59
66	Gravimetric Belt Coal Feeder 10-60t/h, Conveying Distance 2.15m, Motor Power 5.5kW, Rated Voltage 380V	One Unit	15.00	50,294.12	754,411.76
67	Micro-oil Steam-air Heater for Lighting	One Unit	3.00	27,941.18	83,823.53
68	Pressure Fan Adjustable Blade Axial-flow Type 130m3/s 4kPa	One Unit	6.00	223,529.41	1,341,176.47

69	Primary Air Fan Single-suction Centrifugal Double-bracing 60m ³ /s 16kPa	One Unit	6.00	209,558.82	1,257,352.94
70	Induced Draft Fan Adjustable Blade Axial-flow Type 320m ³ /s 8kPa	One Unit	6.00	586,764.71	3,520,588.24
71	Bag-type/Electric-bag Dust Collector 300m ³ /s Dust Collection Rate≥99.86%	Sleeve Set	3.00	5,588,235.29	16,764,705.88
72	Medium-speed Mill Actual Capacity≥42.0t/h, HP863	One Unit	15.00	838,235.29	12,573,529.41
73	Clarification Agitator JJ-2L	One Unit	2.00	50,294.12	100,588.24
74	Combined Type High Efficiency Air Floatation Device 10m ³ /h	One Unit	1.00	50,294.12	50,294.12
75	Hydrogen Generation Station Equipment 2 Suits of 10Nm ³ /h Medium-pressure Hydrogen Generation Devices and 3 Sets of 13.9m ³ Hydrogen Storage Tanks, Internal Equipment of Hydrogen Generation Station	Sleeve Set	1.00	1,117,647.06	1,117,647.06
76	Condensation Water Precision Processing Equipment (including Control System), including:	Sleeve Set	1.00	3,325,000.00	3,325,000.00
77	Oil-burning Package Boiler Starter 20t/h Oil-burning Package Boiler	Sleeve Set	1.00	516,911.76	516,911.76
78	Thermal Engineering Lab	Sleeve Set	1.00	139,705.88	139,705.88
79	Electrical Experiment Equipment	Sleeve Set	1.00	279,411.76	279,411.76
80	Metal Lab Equipment	Sleeve Set	1.00	167,647.06	167,647.06
81	Desulfurization Project	Sleeve Set	1.00	34,283,823.53	34,283,823.53
82	Electric Trolley Type Electric Hoist W=3T, H=12m	One Unit	1.00	2,375.00	2,375.00
83	Electric Hoist 3t	One Unit	4.00	2,654.41	10,617.65
84	Electric Hoist 3t (Boiler Top Maintenance)	One Unit	3.00	2,654.41	7,963.24
85	Crane Installation Electric Hoist 3t	One Unit	1.00	2,654.41	2,654.41
86	Electric Hoist 5t	One Unit	3.00	5,588.24	16,764.71
87	Electric Hoist 10t	One Unit	3.00	8,382.35	25,147.06
88	Electric Hoist 10t	One Unit	12.00	8,941.18	107,294.12
89	Electric Hoist 20t	One Unit	3.00	22,352.94	67,058.82
90	Monorail Trolley Model WA2	One Unit	8.00	419.12	3,352.94
91	Plant Auxiliary Steam Header DN700 Design Pressure: 1.4MPa Design Temperature: 360°C	One Unit	3.00	6,985.29	20,955.88
92	Air-driven Water Pump Horizontal Multi-level Barred Pump, Driven by Turbine with Center Tap Design Flow Rate: 604m ³ /h, Design Lift: 3300mH ₂ O	Sleeve Set	6.00	642,647.06	3,855,882.35
93	Electric Water Pump Motor Power: 5000kW, Flow Rate: 360t/h, Rated Lift: 3300mH ₂ O	Sleeve Set	3.00	908,088.24	2,724,264.71
94	Water Pump Turbine Type: Single Cylinder, Uniflow, Reaction Type, Straight Condensing 7MW, Steam output to Condenser of Main Machine	Sleeve Set	6.00	1,103,676.47	6,622,058.82

95	Circulating Water Pump Q=5.98m ³ /s, H=21m Electric Motor Outfitted, V=6600V, N=1600kW (Seawater Resistant)	One Unit	6.00	1,117,647.06	6,705,882.35
96	Multiplexing Stabilized Pressure Pump (including frequency controller) Q=10m ³ /h, H=84m, N=5.5kw	One Unit	1.00	5,588.24	5,588.24
97	Sewage Pump Q=10m ³ /h, H=12m, N=1.5kW	One Unit	6.00	8,382.35	50,294.12
98	Grid 1000*800	One Unit	3.00	419.12	1,257.35
99	Sewage Lift Pump Q=6m ³ /h H=15m N=1.5kw	One Unit	2.00	1,536.76	3,073.53
100	Submerged Sewage Pump Q=50m ³ /h, H=20m, N=5.5KW (Seawater Resistant)	One Unit	1.00	3,352.94	3,352.94
101	Cast Iron Gate and Latch, Model HZY, φ400	One Unit	1.00	2,794.12	2,794.12
102	Condensation Pit Sewage Pump, Electric Motor 2.2kW, Lift 0.2MPa, Flow Rate 25m ³ /h	One Unit	3.00	2,375.00	7,125.00
103	Sewage Pump Q=20m ³ /h, H=15m	One Unit	8.00	5,029.41	40,235.29
104	Multi-sucker Sewage Pump 50PWHL	One Unit	6.00	3,576.47	21,458.82
105	Drainage Pump Q=50m ³ /h, H=25m, N=7.5kW (Seawater Resistant)	One Unit	2.00	3,352.94	6,705.88
106	Submerged Sewage Pump Q=15m ³ /h, H=16m, N=1.5kW	One Unit	1.00	2,375.00	2,375.00
107	Plant Area Domestic Water Pump (Variable Frequency) Q=43m ³ /h, H=60m, N=15kW	One Unit	2.00	9,779.41	19,558.82
108	Coal-water Lift Pump Q=20m ³ /h H=30m N=1.5kw	One Unit	2.00	3,352.94	6,705.88
109	Domestic Water Pump for Residential Area out of the Plant Area (Variable Frequency) Q=100m ³ /h, H=50m, N=22kW	One Unit	2.00	9,779.41	19,558.82
110	Seawater Pressurizing Pump Q=320m ³ /h, H=20m, N=22kW (Seawater Resistant)	One Unit	3.00	22,352.94	67,058.82
111	Drainage Pump Q=250m ³ /h, H=H=27mH ₂ O	One Unit	2.00	10,058.82	20,117.65
112	Tube Mixer DN80, PN=1.0MPa	One Unit	1.00	698.53	698.53
113	Tube Static Mixer DN400, PN=0.6MPa	One Unit	2.00	4,191.18	8,382.35
114	Chemical Water Make-up Pump Q=300m ³ /h H=40m N=37kw	One Unit	3.00	27,941.18	83,823.53
115	Multiplexing Pump Q=130m ³ /h, H=80m, N=45kW	One Unit	2.00	13,970.59	27,941.18
116	Industrial Pump Q=120m ³ /h, H=60m, N=37kW	One Unit	2.00	6,985.29	13,970.59
117	Filter Screen Flushing Pump Q=130m ³ /h, H=51m, N=45kW Seawater Resistant	One Unit	2.00	16,764.71	33,529.41
118	Gas Storage Tank 1m ³	One Unit	3.00	1,397.06	4,191.18
119	Nitrogen Gas Cylinder 40L, 15MPa	One Unit	30.00	139.71	4,191.18
120	Closed Type Water Heat Exchanger	One Unit	6.00	41,911.76	251,470.59
121	Closed circuit recirculating cooling water pump flow: 1745m ³ /h; lift head: 0.4MPa; motor power: 360kW; rated voltage: 6kV	One Unit	4.00	33,529.41	134,117.65
122	Condensate make-up pump flow: 60~120m ³ /h; lift head: 1.05MPa; motor power: 75kW; rated voltage: 380V	One Unit	6.00	12,573.53	75,441.18
123	Turbine lube-oil tank consisting of: one clean oil tank and one dirty oil tank, with the total effective volume of ~50 m ³	Sleeve Set	3.00	41,911.76	125,735.29
124	Rubber ball cleaning device flow: 100 m ³ /h	Sleeve Set	6.00	125,735.29	754,411.76
125	Lube oil transfer pump of oil tank flow: 15~30m ³ /h motor power: 7.5kW; rated voltage: 380V	One Unit	3.00	2,794.12	8,382.35
126	Passenger-and-freight elevator, load capacity: 1600kg	Ministry Unit	3.00	153,676.47	461,029.41
127	Condensate pump vertical barrel pump, rated flow: 980m ³ /h; lift head: 3.2MPa	One Unit	6.00	167,647.06	1,005,882.35

128	Condensate make-up tank volume: 200 m ³	One Unit	3.00	41,911.76	125,735.29
129	Mechanical vacuum pump nominal output: 73kg/h motor: 380V 180KW	One Unit	6.00	125,735.29	754,411.76
130	Closed circulation expansion tank 10m ³	Sleeve Set	3.00	5,588.24	16,764.71
131	Turbine high- and low-voltage bypass device (hydraulic drive) capacity: 60%B-MCR, including: bypass valve, control device and attemperation water valve, etc.	One Unit	3.00	838,235.29	2,514,705.88
132	Deaerator design pressure: 1.3MPa; design temperature: 350°C, horizontal type, effective volume of water tank: 150 m ³	Sleeve Set	3.00	502,941.18	1,508,823.53
133	Auxiliary turbine to turbine prewarming and steam lock desuperheating and reducing device inlet steam flow: 12.5t/h; inlet steam temperature: 280~350°C; outlet steam temperature: 150~260°C; inlet steam pressure: 0.6~1.3MPa(a); outlet steam pressure:	Sleeve Set	3.00	13,970.59	41,911.76
134	Electric hook crane bridge crane W=50/10T LK=13.5m H=24m	One Unit	1.00	139,705.88	139,705.88
135	Eclectic travelling crane of turbine room hoisting weight: 80/20t	One Unit	2.00	419,117.65	838,235.29
136	Electric twin-beam underhung off-track crane 2*12.5t Lk=8m overhaul of coal grinding mill	Sleeve Set	3.00	153,676.47	461,029.41
137	Electric hook crane bridge crane 16/3.2t Lk=16m H=20m	One Unit	1.00	26,544.12	26,544.12
138	Electric single-beam underhung crane hoisting weight 5t; span: 6m; hoisting height: 9m	One Unit	1.00	16,764.71	16,764.71
139	Electric single-beam crane 10t Lk=16.5m h=24m	One Unit	1.00	22,352.94	22,352.94
140	Electric single-beam crane 5t	One Unit	6.00	9,779.41	58,676.47
141	Electric single-beam grab bucket crane W=3t, V=0.5m ³ , Lk=8m, H=6m	One Unit	1.00	16,764.71	16,764.71
142	Environmental monitoring station	Sleeve Set	1.00	139,705.88	139,705.88
143	Quantity of oil filling of turboset oil system	t	150.00	3,772.06	565,808.82
144	Boiler-turbine overhaul equipment	Sleeve Set	1.00	167,647.06	167,647.06
145	Incoming coal sampling device B=1400mm	One Unit	2.00	153,676.47	307,352.94
146	Furnace sampling device Type 1200	One Unit	2.00	83,823.53	167,647.06
147	Wiper B=1400	One Unit	4.00	6,985.29	27,941.18
148	Coal plough B=1200mm	One Unit	28.00	8,382.35	234,705.88
149	Three-position head expansion device B=1400mm; length of travel S1=2600mm, S2=3050mm	One Unit	2.00	125,735.29	251,470.59
150	Disk de-ironing separator RCDB-16	One Unit	2.00	47,500.00	95,000.00
151	Belt-type electric magnetic iron remover RCDD-14	One Unit	4.00	40,514.71	162,058.82
152	effluent oil treatment equipment Q=5t/h	One Unit	1.00	41,911.76	41,911.76
153	Oil filter of light oil feed pump 60 mesh/inch	One Unit	3.00	2,794.12	8,382.35
154	light oil feed pump (explosion proof type) Q=10m ³ /h 0.6Mpa; motor power: 5.5kW; rated voltage: 380V for diesel generator	One Unit	2.00	9,779.41	19,558.82
155	light oil feed pump (explosion proof type) Q=17.5m ³ /h 4.2Mpa; motor power: 75kW; rated voltage: 380V	One Unit	3.00	11,176.47	33,529.41
156	Light oil drain pump 24m ³ /h, 0.6MPa 11KW	One Unit	2.00	10,617.65	21,235.29
157	bucket-wheel stacker reclaimer radius of cantilever: 45m; stacking output: 1500t/h; reclaiming output:	One Unit	2.00	3,073,529.41	6,147,058.82
158	Ring hammer coal crusher output: 800t/h; feed size: ≤300mm; discharge size: ≤30mm	One Unit	2.00	153,676.47	307,352.94
159	roller picker 1000t/h feed size: ≤300mm; discharge size: ≤30mm	One Unit	2.00	83,823.53	167,647.06
160	electronic belt conveyor scale B=1200mm	One Unit	2.00	9,779.41	19,558.82

161	Verifying unit of electronic belt conveyor applicable belt width: 1200mm	One Unit	2.00	41,911.76	83,823.53
162	C-3AB sealing-tape machine: B=1200mm,V=2.5m/s,Q=1000t/h,Lh=122m	One Unit	2.00	163,623.53	327,247.06
163	Installation of C-4AB sealing-tape machine: B=1200mm V=2.5m/s,Q=1000t/h,Lh=163.25m	Sleeve Set	2.00	218,947.06	437,894.12
164	C-5AB sealing-tape machine: B=1200mm,V=2.5m/s,Q=1000t/h,Lh=219.15m	Sleeve Set	2.00	293,941.18	587,882.35
165	C-1AB sealing-tape machine: B=1400mm,V=2.50m/s,Q=1500t/h,Lh=96.325m	One Unit	2.00	169,602.94	339,205.88
166	C-2AB sealing-tape machine: B=1400mm,V=2.50m/s,Q=1500t/h,Lh=139m	One Unit	2.00	244,680.88	489,361.76
167	C-6 sealing-tape machine: B=1400mm,V=2.50m/s,Q=1500t/h,Lh=408.5m	One Unit	1.00	719,080.15	719,080.15
168	C-7 sealing-tape machine: B=1400mm,V=2.50m/s,Q=1500t/h,Lh=408.5m	One Unit	1.00	719,080.15	719,080.15
169	Steel ash silo V=1400m ³	One Unit	3.00	558,823.53	1,676,470.59
170	Dry slag extractor including:	Sleeve Set	3.00	1,117,647.06	3,352,941.18
171	Chlorine generator by electrolyzing sea water 2×90Kg/h	Sleeve Set	1.00	1,620,588.24	1,620,588.24
172	Feed-water and condensate oxygenator	Sleeve Set	1.00	41,911.76	41,911.76
173	Feed-water and condensate ammonifying plant	Sleeve Set	1.00	55,882.35	55,882.35
174	Closed cooling water hydrazine filling plant	Sleeve Set	1.00	55,882.35	55,882.35
175	PAC dosing plant Q=1.8m ³ /h	Sleeve Set	1.00	69,852.94	69,852.94
176	PAM dosing plant Q=2.2m ³ /h	Sleeve Set	1.00	83,823.53	83,823.53
177	Vapor-water concentrated sampling and analysis device	Sleeve Set	3.00	279,411.76	838,235.29
178	Rotary sieve B=3.0m, H=12m	One Unit	6.00	167,647.06	1,005,882.35
179	Scraper type trash remover portable-type, 4.5*12m	One Unit	1.00	83,823.53	83,823.53
180	Sludge scraper of clarifier tank JG-7.5	One Unit	2.00	69,852.94	139,705.88
181	Domestic sewage-treatment plant Q=6m ³ /h	Sleeve Set	1.00	139,705.88	139,705.88
182	Automatic water filter Q=160m ³ /h	One Unit	2.00	27,941.18	55,882.35
183	Light oil tank 500m ³	One Unit	3.00	50,294.12	150,882.35
184	Electric feeder machine output: 100t/h	One Unit	6.00	11,176.47	67,058.82
185	Humidifying mixing plant output: 100/h	One Unit	3.00	33,529.41	100,588.24
186	Bulk dry ash machine output: 100/h	One Unit	3.00	13,970.59	41,911.76
187	Belt-type oil removal device DO-600	One Unit	1.00	11,176.47	11,176.47
188	Coal bin loosening device motor 4KW 380V	One Unit	15.00	8,382.35	125,735.29
189	ORP meter	Only Nr.	1.00	838.24	838.24
190	PH instrument	Sleeve Set	35.00	1,397.06	48,897.06
191	chain hoist WA2	One Unit	7.00	237.50	1,662.50
192	motor hoist CD1-3	One Unit	4.00	3,632.35	14,529.41
193	Emergency lighting switching box	One Unit	1.00	13,970.59	13,970.59
194	Gas tank C-40 Q=40m ³ 0.8MPa	One Unit	3.00	27,941.18	83,823.53
195	Gas tank C-10 type Q=10m ³ 0.8MPa 0-50°C	One Unit	1.00	9,779.41	9,779.41
196	Gas tank C-30 type Q=30m ³ 0.8MPa	One Unit	4.00	22,352.94	89,411.76
197	All pneumatic fly ash conveying systems in the whole plant (1 set of pneumatic ash conveying system for each furnace, 1 set of control system for the whole fly ash system; the cost of control system has been contained in the equipment cost)	Sleeve Set	3.00	628,676.47	1,886,029.41
198	Water spray pipe winder DS-700 type	One Unit	80.00	698.53	55,882.35
199	leak detection device of condenser	Sleeve Set	3.00	125,735.29	377,205.88
200	Vacuum booster pump of condenser water box motor power: 80KW; rated voltage: 415V	One Unit	3.00	41,911.76	125,735.29
201	Humidifying mixer, output:200t/h	One Unit	3.00	41,911.76	125,735.29

202	Dynamic control box	One Unit	300.00	977.94	293,382.35
203	Testing equipment, apparatus and cabinet	Sleeve Set	1.00	279,411.76	279,411.76
204	100V acid spray-proof lead-acid battery (400Ah) for booster station (400Ah)	Group	2.00	23,750.00	47,500.00
205	Quick plant supply switching device	Face Panel	3.00	27,941.18	83,823.53
206	Pressure transmitter (JV or domestically made)	One Unit	730.00	977.94	713,897.06
207	Bimetal thermometer	Branch Nr.	465.00	83.82	38,977.94
208	Fault recorder for generator-transformer unit	Face Panel	3.00	25,147.06	75,441.18
209	Watt-hour meter panel for generator-transformer unit	Face Panel	3.00	25,147.06	75,441.18
210	Protection screen for generator-transformer unit	Face Panel	9.00	41,911.76	377,205.88
211	Transmitter panel for generator-transformer unit	Face Panel	3.00	25,147.06	75,441.18
212	Synchronization screen	Face Panel	3.00	27,941.18	83,823.53
213	Multifunctional twin-stage overhead vacuum oil filter Q=12000L/h	Sleeve Set	1.00	33,529.41	33,529.41
214	Intensive integrated roots blower Q=5.33m ³ /min P=49.0KPa	One Unit	2.00	13,970.59	27,941.18
215	RF admittance material level	One Unit	20.00	977.94	19,558.82
216	RF admittance level meter	One Unit	75.00	2,235.29	167,647.06
217	In-situ pressure gauge	One Unit	950.00	83.82	79,632.35
218	Differential pressure transmitter (JV or domestically made)	One Unit	435.00	1,117.65	486,176.47
219	Dry ash bulk loader, output:200t/h	One Unit	3.00	16,764.71	50,294.12
220	Drying machine, Q=55m ³ 0.8MPa	One Unit	9.00	33,529.41	301,764.71
221	Waster water treatment system (including equipment as follows)	Sleeve Set	1.00	838,235.29	838,235.29
222	Manual ash discharging door, DN300 t=200°C	Only Nr.	6.00	419.12	2,514.71
223	Manual ash discharging door, DN300	One Unit	6.00	2,095.59	12,573.53
224	Coal pusher 220HP	One Unit	3.00	223,529.41	670,588.24
225	Ordinary thermocouple (double)	Branch Nr.	1740.00	223.53	388,941.18
226	Ordinary thermocouple (double)	Branch Nr.	960.00	167.65	160,941.18
227	Power box for overhauling	Only Nr.	120.00	698.53	83,823.53
228	Pneumatic actuator (joint-stock or domestic)	Sleeve Set	60.00	8,382.35	502,941.18
229	Pneumatic dust discharging gate DN300 t=200°C	One Unit	6.00	4,191.18	25,147.06
230	Pneumatic dust discharging gate DN300	One Unit	6.00	4,191.18	25,147.06
231	Zirconia analyzer	Only Nr.	12.00	8,550.00	102,600.00
232	Movable pebble coal bunker 0.6 m ³	Sleeve Set	15.00	2,794.12	41,911.76
233	Flow measuring device	Sleeve Set	50.00	3,632.35	181,617.65
234	Flow measuring device (nozzle and pore plate)	Sleeve Set	165.00	5,029.41	829,852.94
235	Turbidity meter	Only Nr.	20.00	1,397.06	27,941.18
236	Sea water desalination system and desalting system	Sleeve Set	1.00	25,147,058.82	25,147,058.82
237	Fire alarm system	Sleeve Set	1.00	279,411.76	279,411.76
238	Aash handling gasification fan SNH13 Q=18.93Nm ³ /min P=68.6KPa	One Unit	4.00	20,955.88	83,823.53
239	Ash bucket gasification fan SNH8 Q=10.81m ³ /min P=58.8KPa	One Unit	5.00	16,764.71	83,823.53
240	Continuous smoke monitoring system	Sleeve Set	3.00	111,764.71	335,294.12
241	Thermal resistor (double)	Branch Nr.	35.00	167.65	5,867.65
242	Fuel pipe purging attemperator 6t/h	Sleeve Set	3.00	6,985.29	20,955.88
243	Electrical tee joint 1000X1000 65°	One Unit	8.00	5,588.24	44,705.88

244	Electric actuator (Joint-stock or domestic, completed with ball-type hinge)	Sleeve Set	240.00	8,382.35	2,011,764.71
245	Motor control box	A Nr.	150.00	698.53	104,779.41
246	Electric feeding machine, with a capacity of 200t/h	One Unit	6.00	13,970.59	83,823.53
247	Conductivity indicator	Sleeve Set	38.00	1,397.06	53,088.24
248	Electromagnetic flowmeter	Sleeve Set	12.00	8,382.35	100,588.24
249	DC distribution panel	Sleeve Set	1.00	2,794.12	2,794.12
250	Four-channel silica meter	Sleeve Set	10.00	50,294.12	502,941.18
251	Coal mill explosion-proof steam desuperheater 8t/h	Sleeve Set	3.00	6,985.29	20,955.88
252	Movable lift platform rated load 1t	One Unit	2.00	2,235.29	4,470.59
253	Air electric heater DYK-30 N=30KW 150°C	One Unit	3.00	13,970.59	41,911.76
254	Air electric heater DYK-50 N=50KW 150°C	One Unit	3.00	11,176.47	33,529.41
255	terminal box XDW3	One Unit	6.00	1,397.06	8,382.35
256	buffer air lock 1000X1000	One Unit	14.00	4,191.18	58,676.47
257	taping machine protective element	Sleeve Set	12.00	13,970.59	167,647.06
258	belt vulcanizer B=1400mm	Sleeve Set	1.00	13,970.59	13,970.59
259	rotary screw air compressor Q=43m ³ /min P=0.8MPa	One Unit	9.00	97,794.12	880,147.06
260	mass flowmeter	Sleeve Set	3.00	13,970.59	41,911.76
261	mass flowmeter (JV or Local)	Sleeve Set	6.00	13,970.59	83,823.53
262	ultrasonic level sensor (JV or Local)	Sleeve Set	36.00	2,514.71	90,529.41
263	falling type safety fuse RW9-10	Only Nr.	3.00	419.12	1,257.35
264	wheeled loader ZL50 type	One Unit	2.00	97,794.12	195,588.24
265	channel Interface cabinet	Face Panel	2.00	22,352.94	44,705.88
266	logic switch (pressure, differential pressure, material level, JV or import)	Only Nr.	525.00	977.94	513,419.12
267	logic switch (pressure, differential pressure, material level, JV)	Only Nr.	120.00	977.94	117,352.94
268	arrester FZ-10	Only Nr.	3.00	614.71	1,844.12
269	acid and alkali concentration meter	Sleeve Set	8.00	1,397.06	11,176.47
270	heavy-hammer level-sensing device	One Unit	18.00	838.24	15,088.24
271	sodium Instrument	Sleeve Set	11.00	33,529.41	368,823.53
272	enclosed knife switch HH4	A Nr.	240.00	55.88	13,411.76
273	radar fluid level meter	Sleeve Set	30.00	2,514.71	75,441.18
274	radar fluid level meter (JV or Local)	Sleeve Set	18.00	2,514.71	45,264.71
275	warehouse wall vibrator HZFB-4 type	One Unit	20.00	838.24	16,764.71
276	air flow measurement device (JV or Local)	Sleeve Set	45.00	8,382.35	377,205.88
277	fly ash carbon instrument	Sleeve Set	6.00	8,382.35	50,294.12
278	high pressure heater including:	Sleeve Set	3.00	2,095,588.24	6,286,764.71
279	FC switch cabinet for high-voltage house 6.6kV, 400A, 50kA, 56kA	Face Panel	56.00	22,352.94	1,251,764.71
280	6kV PT cabinet for high-voltage house 6.6kV, 50kA	Face Panel	22.00	13,970.59	307,352.94
281	6kV switch cabinet for high-voltage house 6.6kV, 1250A, 50kA, 125kA	Face Panel	76.00	30,735.29	2,335,882.35
282	6kV switch cabinet for high-voltage house 6.6kV, 3150A, 50kA, 125kA	Face Panel	21.00	33,529.41	704,117.65
283	Limestone Crushing System	Sleeve Set	1.00	838,235.29	838,235.29
284	Eight # Tape Machine	One Unit	1.00	114,558.82	114,558.82
285	Electromagnetic vibration stoker	One Unit	2.00	125,735.29	251,470.59
	Boats		20	60,000.00	1,200,000.00
	Motorized Boats		30	40,000.00	1,200,000.00

Summary Table Device Materials

Summary Table Device Materials					
Erection Material		Unit	Quantity	Unit Price	Value
No.	Material Description				
	Entire Project Engineering				
One	Main and Auxiliary Production				
(One)	Thermal Power System				
1	Boiler				
1.1	Boiler Proper				
1.1.2	Individual Test and Commissioning				
	Desalted water	t	105000.00	3.63	381,397.06
	Diesel #0	t	532.08	2299.56	1,223,549.26
1.6	Smoke, air and coal ducts			0.00	-
	Cold air duct	t	450.00	2657.21	1,195,742.65
	Hot air duct	t	450.00	2509.12	1,129,102.94
	Flue	t	1200.00	2372.21	2,846,647.06
	Raw coal piping	t	45.00	1802.21	81,099.26
	Pulverized coal feed piping	t	600.00	2715.88	1,629,529.41
1.7	Other auxiliaries of boiler			0.00	-
	Platform stairs	t	150.00	1646.29	246,944.12
3	Steam water piping for thermodynamic system			0.00	-
3.1	Main steam piping			0.00	-
	Main steam piping(including High Pressure bypass inlet section)ASTM A335 P91	t	360.00	23750.00	8,550,000.00
3.2	Reheat steam system			0.00	-
	Reheating hot section piping (including LP bypass inlet section)ASTM A335 P91	t	351.00	23750.00	8,336,250.00
	Reheating cold section piping (including LP bypass outlet section)ASTM A672B70CL32	t	225.00	9779.41	2,200,367.65
3.3	Main feed water piping			0.00	-
	Water piping WB36	t	279.00	9779.41	2,728,455.88
3.5	Medium/low pressure steam-water piping			0.00	-
	Turbine extraction piping	t	165.00	4805.88	792,970.59
	Plant service steam piping	t	180.00	4805.88	865,058.82
	Medium/low pressure water supply and condensate piping	t	105.00	4805.88	504,617.65
	Drain and discharge water piping	t	150.00	4805.88	720,882.35
	Demineralized water piping(including condensate, fresh water, closed cold water piping)	t	330.00	4805.88	1,585,941.18
	Other oil piping in main building	t	60.00	4805.88	288,352.94
	Plant MP/LP piping	t	300.00	4805.88	1,441,764.71
	Recirculating water piping in main powerhouse	t	180.00	3447.94	620,629.41
	Air piping in main powerhouse	t	90.00	4805.88	432,529.41
5	Masonry and insulation of thermodynamic system			0.00	-
5.1	Boiler furnace wall masonry			0.00	-
	Insulating casting material (cement perlite)	m ³	600.00	413.53	248,117.65
	Microdilantancy refractory plastic material	m ³	45.00	1117.65	50,294.12
	Aluminium silicate refractory fiber loose wool	m ³	180.00	190.00	34,200.00
	Aluminium silicate refractory fiber board	m ³	120.00	190.00	22,800.00
	Aluminium silicate refractory fiber felt	m ³	1290.00	190.00	245,100.00
	Heat resistant seal coating (composite silicate coating)	m ³	90.00	2586.24	232,761.18
	High strength refractory castable	m ³	165.00	413.53	68,232.35
	High temperature plaster	t	27.00	248.40	6,706.72
	High temperature glass wool board	m ³	840.00	167.65	140,823.53
	High temperature refractory mortar	m ³	6.00	1117.65	6,705.88
5.2	Insulation of boiler main body			0.00	-
	Composite silicate felt	m ³	420.00	182.46	76,631.47
	Composite silicate tube shell	m ³	825.00	182.46	150,526.10
	Aluminium silicate product	m ³	210.00	190.00	39,900.00
	High temperature glass wool board	m ³	1710.00	167.65	286,676.47
(A)	Galvanized iron sheet δ=0.5mm (provided by boiler manufacturer)	t	129.53	0.00	-

5.3	Insulation and painting of boiler auxiliaries and smoke, air and coal ducts			0.00	-
	Mineral wool products	m ³	3000.00	113.16	339,485.29
	High-temperature resistant glass wool	m ³	2400.00	174.91	419,788.24
	Galvanized iron sheet $\delta=0.5\text{mm}$	t	125.99	1592.65	200,657.60
(A)	Insulated outer protection layer: galvanized steel sheet	t	115.40	0.00	-
5.4	Turbogenerator set equipment insulation			0.00	-
	Aluminium silicate refractory fiber product	m ³	588.00	190.00	111,720.00
	Galvanized iron sheet $\delta=0.5\text{mm}$	t	20.02	1592.65	31,884.79
	Rockwool board	m ³	387.00	113.16	43,793.60
	High temperature plaster	t	18.00	248.40	4,471.15
5.5	Insulation and painting of steam water piping			0.00	-
	Rockwool insulation of equipment piping	m ³	3000.00	113.16	339,485.29
	Insulation product: aluminium silicate refractory fiber product	m ³	600.00	190.00	114,000.00
	Galvanized iron sheet $\delta=0.5\text{mm}$	t	123.64	1592.65	196,914.88
(Two)	Fuel Supply System			0.00	-
1	Coal handling system			0.00	-
1.2	Belt conveyor coal feeding system			0.00	-
	Coal-drop pipe	t	20.00	1637.07	32,741.47
1.4	Limestone crushing system			0.00	-
	Steel	t	2.00	1257.35	2,514.71
	Steel tube	t	2.00	1536.76	3,073.53
1.5	Hydraulic purging system			0.00	-
	Water flushing pipe for coal handling system	t	7.00	1534.81	10,743.66
2	Fuel oil system			0.00	-
	Fuel oil system piping	t	30.00	2351.53	70,545.88
(Three)	Ash removal system			0.00	-
2	Flyash system			0.00	-
	Pneumatic ash handling system	t	90.00	2862.57	257,631.62
	Wear-resistant bend	t	20.00	2862.57	57,251.47
(Four)	Water treatment system			0.00	-
1	Boiler make-up water treatment system			0.00	-
1.1	EQUIPMENT			0.00	-
	Various sectional steels and installing material	t	8.00	1397.06	11,176.47
	Protruding and tensioning formed platform of glass fibre reinforced plastic (including ladder and support)	A Nr.	2.00	2375.00	4,750.00
	Protruding and tensioning formed ditch cover of glass fibre reinforced plastic grid, ditch width of 500mm	m ²	75.00	125.74	9,430.15
1.2	Pipes			0.00	-
	UPVC pipes and other pipelines and fittings	t	4.00	5266.63	21,066.53
	Valves of each type DN350- DN25	t	30.00	2568.07	77,042.21
	Ordinary steel pipe and fittings(including flanges)DN25 – DN300	t	8.00	2568.07	20,544.59
	Composite metal plastic pipe and fittings(including plastic lined flanges)DN25 – DN300	t	30.00	5266.63	157,998.97
	Stainless steel pipe and fittings DN25 – DN250	t	13.00	10159.41	132,072.35
	Super stainless steel	t	10.00	10159.41	101,594.12
3	Electrolysed sea water chlorination system			0.00	-
3.31	Electrolysed sea water chlorination system			0.00	-
	UPVC pipe and fittings DN25 – DN50	t	2.00	3309.91	6,619.82
4	Boiler feed water correction treatment			0.00	-
4.1	Chlorination and hydrazine dosing treatment system of feed water			0.00	-
	Feed water chlorination and hydrazine dosing treatment system piping: stainless steel	t	6.00	10178.13	61,068.79
	Various sectional steels and installing material	t	1.50	1397.06	2,095.59
4.2	Steam & water sampling system			0.00	-
	Stainless steel pipe and valve	t	2.50	13361.19	33,402.98
	Various sectional steels and installing material	t	1.00	1397.06	1,397.06

6	Plant area pipelines			0.00	-
	Plant area stainless steel piping	t	30.00	10159.41	304,782.35
(Five)	WATER SUPPLY SYSTEM			0.00	-
1	Circulating Water System			0.00	-
	Intake grid b×h=40×2m	Sleeve Set	3.00	55882.35	167,647.06
	Trash rack and guide slot b×h=4.0×12m	Sleeve Set	6.00	33529.41	201,176.47
	Plastic lined steel pipe Φ377×6	t	38.43	1642.66	63,127.49
	Welded steel pipeΦ2840×18 (10CrMoAl)	t	5638.50	2868.16	16,172,130.11
	Welded steel pipe Φ3040×18 (10CrMoAl)	t	6039.00	2868.16	7,320,828.90
	Hydraulic control butterfly valve DN1800 PN=0.6MPa(sea water resistance)	Only Nr.	6.00	83823.53	502,941.18
	Electric butterfly valve DN1800 PN=0.6MPa(sea water resistance)	Only Nr.	4.00	69852.94	279,411.76
	Circulating water pipe ribbing 【12.6 1800m	t	22.17	971.24	21,532.29
	Circulating water pipe ribbing 【14a 5500m	t	79.94	971.24	77,640.55
	Circulating water piping Φ1820×14	t	312.00	1642.66	512,510.47
	Circulating water piping Φ2440×16	t	1147.20	1642.66	1,884,461.58
	Plastic lined pipes and fittings Φ108×4 150m	t	1.55	1642.66	2,546.13
	Steel fitting: flanges, sectional steel, and bolts	t	100.00	2375.00	237,500.00
	Pressure-plate type expansion pieceDN1800 PN=0.6MPa(sea water resistance)	Only Nr.	14.00	13970.59	195,588.24
	Flat steel gate 3.0×3.0m	Sleeve Set	3.00	27941.18	83,823.53
	Flat steel gate 4.5×2.0m	Sleeve Set	2.00	33529.41	67,058.82
	Flat steel gate slot 3.0*8mm	Sleeve Set	6.00	22352.94	134,117.65
	Flat steel gate slot 4.5*12m	Sleeve Set	6.00	27941.18	167,647.06
	Trash interception grid plate 1440×840 stainless steel	Block Nr.	6.00	2375.00	14,250.00
	Manual butterfly valve, DN150 , PN=1.0MPa	Only Nr.	2.00	419.12	838.24
	Manual butterfly valve, DN200 , PN=1.0MPa	Only Nr.	6.00	558.82	3,352.94
	Manual butterfly valve, DN350 , PN=1.0MPa	Only Nr.	5.00	1117.65	5,588.24
	Manual gate valve, DN80 , PN=1.0MPa	Only Nr.	3.00	335.29	1,005.88
	Check valve DN350 , PN=1.0MPa	Only Nr.	3.00	977.94	2,933.82
	Check valve DN80 , PN=1.0MPa	Only Nr.	3.00	139.71	419.12
	Electric butterfly valve, DN200, PN=1.0MPa	Only Nr.	7.00	1816.18	12,713.24
	Fluoroplastic lined check valve, DN200, PN=1.0MPa	Only Nr.	6.00	782.35	4,694.12
(F)	Electrical system			0.00	-
1	Electricity and outgoing line of generator			0.00	-
1.2	Lead-out of generator			0.00	-
	Enclosure type AC exciting common bus In=2500A	3-Phase Meters	45.00	1397.06	62,867.65
	Enclosure type DC exciting common bus In=3500A	3-Phase Meters	60.00	1397.06	83,823.53
	Station-service branch circuit of enclosure type isolated-phase bus In=2000A ,Ue=20kV	3-Phase Meters	24.00	6493.81	155,851.41
	Main circuit of enclosure type isolated-phase bus for generator In=14000A ,Ue=20kV	3-Phase Meters	120.00	6493.81	779,257.06
3	Power distribution device			0.00	-
3.1	400Kv GIS distribution unit			0.00	-
	Suspension insulator string 29(XWP-160)	Only Nr.	174.00	38.00	6,612.00
	Tension insulator string 29(XWP-160)	Only Nr.	870.00	38.00	33,060.00
	Steel-core aluminum stranded wire of expanded diameter 2*LGKK-600 3200m(measured by single wire)	t	8.68	7030.84	61,027.68

7.1	Tele-communication system			0.00	-
	Telephone wire and cable	Sleeve Set	1.00	55882.35	55,882.35
(Seven)	Thermal engineering control system			0.00	-
3	Cable and the auxiliaries			0.00	-
3.1	Cable			0.00	-
	Grounding cable	km	13.00	2794.12	36,323.53
	BVV Cable BVV	km	20.00	1816.18	36,323.53
	High-temperature resisting cable	km	65.00	4191.18	272,426.47
	Compensational conductor	km	10.00	2068.49	20,684.85
	Compensational cable	km	115.00	7264.71	835,441.18
	Fire-retardant type control cable, various numbers of cores	km	727.00	3073.53	2,234,455.88
	Fire-retardant shielding computer cable, various numbers of cores	km	380.00	3632.35	1,380,294.12
3.2	Auxiliary Facilities			0.00	-
	Aluminium silicate needle-felted carpet	m ³	210.00	174.91	36,731.47
	Cable fire protection pillows	t	15.00	2350.69	35,260.37
	Fireproofing putty	t	36.00	2350.69	84,624.88
	Cable rack	t	540.00	2453.24	1,324,747.06
	Instrument impulse tube 60km	t	57.72	7442.13	429,559.88
	Gas source pipe 45km	t	26.64	7442.13	198,258.41
	Water/gas pipe 1/2", 1", 3/2", 5/4", 2" 60km	t	14.52	1452.94	21,096.71
	Tee, elbow, intermediate joint, terminal joint, stainless steel	Only Nr.	18000.00	5.59	100,588.24
	Home-made instrumentation valve and attachments	Only Nr.	6000.00	55.88	335,294.12
	Terminal Box	Only Nr.	600.00	8.38	5,029.41
	Gas source ball valve	Only Nr.	1500.00	139.71	209,558.82
	Flexible conduit 1", 1/2", 1/4", 1 1/2", 3/4	m	30000.00	2.24	67,058.82
	Hose connector	A Nr.	12000.00	1.40	16,764.71
	Imported instrumentation valves and attachments	Only Nr.	2280.00	405.15	923,735.29
	Flame retardant metal hose, various diameters	m	18000.00	2.12	38,223.53
(Eight)	Accessory production works			0.00	-
1	Auxiliary production works			0.00	-
1.1	Air compressor station			0.00	-
	Air compressor chamber pipe	t	30.00	6593.28	197,798.38
3	Environmental protection and monitor unit			0.00	-
3.1	Discharging system of drainage tank			0.00	-
	UPVC pipe and fittings	t	0.50	2073.79	1,036.90
	Stainless steel pipe and fitting, valve	t	1.00	5029.41	5,029.41
	Steel piping, valves and sectional steel	t	3.00	2073.79	6,221.38
3.2	Chemical wastewater treatment system			0.00	-
(A)	Chemical wastewater treatment system piping	t	27.00	0.00	-
3.3	Domestic water system			0.00	-
	Composite pipe of meshed steel band and polyethylene(PESl pipe)	t	33.00	6985.29	230,514.71
	Welded steel pipe Φ273×6	t	11.85	1642.66	19,465.54
	Industrial water piping, service water piping Φ108×4	t	4.10	1642.66	6,734.91
	Industrial water piping, service water piping Φ159×4.5	t	5.15	1642.66	8,459.71
	Industrial water piping, service water piping Φ219×6	t	15.76	1642.66	25,888.35
	Steel fitting: flanges, sectional steel, and bolts	t	5.00	2375.00	11,875.00
	Manual butterfly valve, DN100, PN=1.0MPa	Only Nr.	2.00	335.29	670.59

5	Station-service power system			0.00	-
5.1	Station-service power system for power house			0.00	-
5.1.1	HV distribution equipment			0.00	-
	Enclosed bus, common box, hard bus conductor 6.6kV, 4000A, Ik=50kA	m	300.00	1274.96	382,486.76
5.1.2	LV distribution equipment			0.00	-
	Linking bus bridge	Single-Phase mtr	60.00	223.53	13,411.76
5.5	Sliding line of plant travelling crane			0.00	-
	Single-pole and 3-pole sliding contact wire	m	3400.00	36.32	123,500.00
5.6	Off-plant overhead power line			0.00	-
	1KV power cable ZRC-VV22 0.6/1kV	km	0.50	10196.57	5,098.29
5.7	Plant lighting			0.00	-
	Three-protection fluorescence lamp	Sleeve Set	2040.00	97.79	199,500.00
	Three-protection fluorescence lamp	Sleeve Set	60.00	97.79	5,867.65
	Steel-pole floodlight DLTG81-1-Z250/2.5	Sleeve Set	20.00	335.29	6,705.88
	Steel-pole floodlight DLTG81-1-Z250/6	Sleeve Set	20.00	335.29	6,705.88
	Steel-pipe road lamp DLLG3-1-Z250-DLLD6-6.5/1.5	Sleeve Set	90.00	335.29	30,176.47
	Explosion-proof steel-pole road lamp BLD	Sleeve Set	32.00	419.12	13,411.76
6	Cable and earthing			0.00	-
6.1	Cable			0.00	-
6.1.1	Power cable			0.00	-
	1KV power cable ZRC-YJV22 0.6/1kV	km	280.00	21514.71	6,024,117.65
	6KV power cable ZRC-YJV22-6/10kV	km	40.00	68455.88	2,738,235.29
	Fire-resistant power cable NH-VV22-0.6/1kV	km	12.00	28779.41	345,352.94
6.1.2	Control cables			0.00	-
	Electrical control cable ZRC-KVV22-0.5 , each type-o	km	170.00	4191.18	712,500.00
	Electrical control cable ZRC-KVVP22-0.5, each type	km	140.00	4191.18	586,764.71
	Computer cable ZRC-DJYPVP22-0.5 , each type	km	100.00	3632.35	363,235.29
6.1.3	Cable auxiliaries			0.00	-
	Galvanized steel cable tray	t	500.00	2453.24	1,226,617.65
	Cable protection conduit—hot galvanizing	t	50.00	1429.19	71,459.56
	Flexible conduit of cables	Sleeve Set	2500.00	3.35	8,382.35
6.1.4	Fire protection for cables			0.00	-
	Fire-resistant cover	t	30.00	2026.29	60,788.82
	Fire-retarding putty	t	35.00	2350.69	82,274.19
6.2	Plant grounding			0.00	-
6.2.1	Earthing.			0.00	-
	Round bar ϕ 12 , hot galvanizing, 800m	t	0.71	1452.94	1,031.59
	Round bar ϕ 40 22000m	t	217.14	1452.94	315,491.65
	Flat steel -25 \times 3 2000m	t	1.18	1452.94	1,714.47
	Flat steel -35 \times 6 3000m	t	4.95	1452.94	7,192.06
	Flat steel -50 \times 6 4000m	t	9.40	1452.94	13,657.65
	Flat steel -75 \times 10 2000m	t	11.78	1452.94	17,115.65
	Galvanized stranded wires 8 S.W.G. G.L	m	2000.00	1.40	2,794.12
	Hot galvanized steel pipe L=3000mm ϕ 60/4	t	14.90	1452.94	21,648.82
	Concentrated grounding connection	A Nr.	30.00	2794.12	83,823.53
7	Communication			0.00	-

Erection Materials for Switchyard

Summary Table Device Material					
No.	Material Description	Unit	Quantity	Unit Price	Total Price
1	100mm ² bare copper wire	kg	623.00	18.16	11,314.78
2	50mm ² bare copper wire	kg	133.50	18.16	2,424.60
3	Suspension insulator string 29(XWP-160)	Only Nr.	348.00	38.00	13,224.00
4	Flat copper 10*4 300m	t	0.11	18161.76	1,997.79
5	Flat copper 30*4 4000m	t	4.27	18161.76	77,550.74
6	Power cable KVVP2-22	km	10.00	4492.94	44,929.41
7	Power cable VV22-1	km	5.00	10196.57	50,982.87
8	Power cable YJV22-1-3×185+1×95	km	4.60	120475.09	554,185.41
9	Power cable YJV22-10-3×95	km	0.50	77914.81	38,957.40
10	Cable holder Steel	t	10.17	1508.54	15,341.89
11	Expanded diameter aluminium conductor steel reinforced 2*LGKK-600 500m (single piece)	t	1.36	7030.84	9,561.94
12	Fire-resistant cover	t	1.00	2026.29	2,026.29
13	Fireproofing paint	t	0.50	2489.28	1,244.64
14	Fireproofing putty	t	4.00	2350.69	9,402.76
15	Flame retardant coverplate, Flame baseplate	m ²	30.00	69.85	2,095.59
16	Copper clad steel grounding pole Ø17.2mm L=2500mm	m	750.00	11.18	8,382.35
17	Galvanized steel pipe	t	5.57	1536.76	8,559.78
18	Concentrated grounding connection 30x4 flat cooper 4 pcs. of copper clad steel grounding pole Ø17.2mm,L=2500mm	Sleeve Set	10.00	3352.94	33,529.41

Steel Structure

Project	Cost USD
Steel	11,112,300.00

Erection Machinery

Kenya Lamu 3x350 MW project planned construction machinery (excluding desalination, wharf construction)					
No.	Machinery or Equipment Name Description	Model & Specifications	Quantity	Price per Machines	Total USD
1. Lifting Equipment					
1	Crawler crane	350t	1	10,212,418.30	10,212,418.30
2	Crawler crane	250t	2	6,535,947.71	13,071,895.42
3	Tower crane	M900/50t	2	4,901,960.78	9,803,921.56
4	Bob Cat Crawler	Bobcat T190	5	50,000.00	250,000.00
4	Crawler crane	QJY50/50t	3	816,993.46	2,450,980.38
5	Gantry crane	60t/42m	2	612,745.10	1,225,490.20
6	Gantry crane	40t/42m	2	531,045.75	1,062,091.50
7	Autocrane	QY65K/65t	2	1,021,241.83	2,042,483.66
8	Autocrane	40t	2	612,745.10	1,225,490.20
9	Autocrane	20t	2	204,248.37	408,496.74
10	GYT hydraulic lifting equipment	400t	1	490,196.08	490,196.08
11	Electric Winch	10 ~ 16t	8	12,254.90	98,039.20
12	Electric Winch	5t	12	12,254.90	147,058.80
13	Electric Winch	3t	10	12,254.90	122,549.00
14	Electric Winch	1t	10	12,254.90	122,549.00
15	Electric Winch	0.5t	10	12,254.90	122,549.00
16	Pulley block	20-50t	20	8,169.93	163,398.60
17	Single-gate pulley	5-16t	60	8,169.93	490,196.08
18	Construction elevator	SC100/100	3	122,549.02	367,647.06
19	Hydraulic Jack	HS502	8	6,127.45	49,019.60
20	Hydraulic Jack	QL100	12	6,127.45	73,529.40
21	Screw jack	H1 FORESOT50	12	6,127.45	73,529.40
3. Welding Machinery					
1	Inverter-type electric welding machine	ZX Series	240	2,450.98	588,235.20
2	AC welder	Domestic BX series	20	4,084.97	81,699.38
3	Aluminiumbusbar argon arc welding machine		4	4,084.97	16,339.88
4	CO2 welder		4	4,084.97	16,339.88

	Manual butterfly valve, DN200 , PN=1.0MPa	Only Nr.	3.00	502.94	1,508.82
	Check valve DN100 , PN=1.0MPa	Only Nr.	2.00	335.29	670.59
	Check valve DN200 , PN=1.0MPa	Only Nr.	2.00	502.94	1,005.88
3.4	Water recycling System			0.00	-
	Reused water piping	t	38.00	2073.79	78,804.18
3.5	Coal contained wastewater system			0.00	-
	Welded steel pipe Φ426×6	t	0.62	2073.79	1,285.75
	Welded steel pipe Φ108×4 800m	t	8.21	2073.79	17,025.85
	Welded steel pipe Φ89×4 200m	t	1.68	2073.79	3,483.97
	Steel fitting: flanges, sectional steel, and bolts	t	0.50	2375.00	1,187.50
3.6	Coal contained sewage treatment system			0.00	-
	Coal contained wastewater treatment piping	t	5.00	2073.79	10,368.97
3.7	Domestic sewage treatment system			0.00	-
	Domestic sewage treatment piping		1.00	2073.79	2,073.79
Do not take fees	Desulfurization Project	Sleeve Set	1.00	8295735.29	8,295,735.29
Two	Individual works related to the plant site			0.00	-
(Two)	Water quality purification and seawater desalting works			0.00	-
	Raw water pre-treatment piping	t	16.00	1642.66	26,282.59

Civil Equipment

No.	Equipment Description	Unit	Qty	Per Unit	Value
1	Heptafluoropropane fire extinguishing system	Sleeve set	4.00	139705.88	558,823.53
2	LP CO2 fire extinguisher	Sleeve set	3.00	139705.88	419,117.65
3	Plant heating & ventilation equipment	Sleeve set	1.00	4701661.76	4,701,661.76
4	Water sprinkling extinguishing system	Sleeve set	40.00	8382.35	335,294.12
5	Water curtain separator	Sleeve set	12.00	8382.35	100,588.24
6	Foam type fire extinguisher	Sleeve set	1.00	41911.76	41,911.76
7	Elevator: main building	Sleeve set	1.00	125735.29	125,735.29
8	Elevator: chimney	Sleeve set	1.00	139705.88	139,705.88
9	Electric water heater 120L	One Unit	10.00	838.24	8,382.35
10	Portable fire extinguishing equipment and material	Sleeve set	1.00	111764.71	111,764.71
11	Automatic water sprinkling extinguishing system	Sleeve set	10.00	13970.59	139,705.88
No.	Equipment for Switchyard	Unit	Quantity	Unit Price	Total USD
1	33kV power transformer, 40.5kV, outdoor type, oil-dip type, on-load regulation, rated capacity: 630kVA 36±4×2.5%/0.4kV, D,yn11 Uk%=6.5	%	2.00	41911.76	83,823.53
2	400Kv KWH meter panel	Face Panel	1.00	25147.06	25,147.06
3	400kV SF6 full enclosed switchgear (GIS)	Interval Bay	6.00	1397058.82	8,382,352.94
4	10kV outdoor fuse, RW3-10 50/30	Group	1.00	977.94	977.94
5	Lightning arrester 10kV FS7-10	Group	1.00	838.24	838.24
6	Zinc oxide lightning arrester: Y10W-390/900 (with two-pointer counter for leakage current monitoring)	One Unit	12.00	5588.24	67,058.82
7	GPS timing main cabinet	Block Nr.	1.00	25147.06	25,147.06
8	GPS timing expansion cabinet	Block Nr.	2.00	25147.06	50,294.12
9	Battery bank 500Ah	Group	2.00	33529.41	67,058.82
10	Station-control level equipment	Sleeve Set	1.00	223529.41	223,529.41
11	11Kv cabinet type distribution unit, including voltage transformer and lightning arrester, station-service transformer incoming line panel, 1 panel for each	One Unit	1.00	33529.41	33,529.41
12	415V Drawer type power distribution cabinet	One Unit	8.00	16764.71	134,117.65
13	Secondary AC distribution cabinet	One Unit	3.00	16764.71	50,294.12
14	DC main feeder cabinet DC110v	One Unit	2.00	13970.59	27,941.18
15	DC charging cabinet DC110v	One Unit	2.00	13970.59	27,941.18
16	DC branch feeder cabinet DC110v	One Unit	6.00	13970.59	83,823.53
17	10Kv intermediate power distribution cabinet, with vacuum breaker	One Unit	1.00	33529.41	33,529.41
18	AC uninterrupter power supply cabinet, 2*10kVA	Sleeve Set	1.00	41911.76	41,911.76
19	Dry type transformer 11kV 630kVA 11±2×2.5%/0.4kV, D,yn11 Uk%=4.5	One Unit	1.00	22352.94	22,352.94
20	Dynamic control box	One Unit	5.00	977.94	4,889.71

5	CO2 welder		4	4,084.97	16,339.8
6	Automatic submerged-arc welder		2	4,084.97	8,169.9
7	High temperature welding electrode drying oven		4	4,084.97	16,339.8
8	High temperature welding electrode drying oven		4	4,084.97	16,339.8
9	Welding electrode incubator		2	4,084.97	8,169.9
10	Plasma cutting machine		4	4,084.97	16,339.8
4. Heat Treatment Installation				4,084.97	
1	SPC far-infrared heating equipment	360KW	8	4,084.97	32,679.7
2	SPC far-infrared heating equipment	240KW	4	4,084.97	16,339.8
3	Portable far-infrared heating equipment	30KW	16	4,084.97	65,359.4
4	Strip chart recorder	ER186-G33CA-NB	40	4,084.97	163,398.6
5. Metal Inspection Equipment				-	
1	X-ray detector	XXQ2505	4	4,084.97	16,339.8
2	X-ray detector	250EGS-2	4	4,084.97	16,339.8
3	y-ray detector	Ir192	4	4,084.97	16,339.8
4	y-ray detector	Se75	2	4,084.97	8,169.9
5	Digital ultrasonic flaw detector	HS-510	4	4,084.97	16,339.8
6	Ultrasonic detector	CTS-22	4	4,084.97	16,339.8
7	Spectograph	WK4, WKX, WK3	4	4,084.97	16,339.8
8	Durometer	HLN-11A	4	4,084.97	16,339.8
9	Thickness gauge	DM4	2	4,084.97	8,169.9
10	Automatic processor	RBM3-1	2	4,084.97	8,169.9
11	Film viewer	LQ-1	4	4,084.97	16,339.8
12	Nigrometer	TD-210	4	4,084.97	16,339.8
13	Field metallagraphic tester	XH-500D	2	4,084.97	8,169.9
14	Magnetic powder detector	CJE-DII	4	4,084.97	16,339.8
15	Eddy current flaw detector	ET-551H	2	4,084.97	8,169.9
6. Electrical Commissioning Equipment				-	
1	Relay protection testing device		1	1,400.00	1,400.0
2	Transformer tester		1	1,500.00	1,500.0
3	Circuit breaker characteristic tester		1	3,200.00	3,200.0
4	AC/DC HV measuring unit		1	1,800.00	1,800.0
5	DC resistance rapid tester		1	1,765.00	1,765.0
6	Automatic dielectric loss tester		1	2,000.00	2,000.0
7	Dc double bridge		1	3,400.00	3,400.0
8	High voltage switch contact resistance tester		1	6,700.00	6,700.0
9	Transformer trans ration tester		1	14,000.00	14,000.0
10	Earth resistance tester		2	1,800.00	1,800.0
11	HV DC generator		1	3,400.00	3,400.0
12	Generator voltage device (resonant transformer)		1	2,300.00	2,300.0
13	AC voltage device		1	1,200.00	1,200.0
14	Manual megohmmeter		4	1,500.00	6,000.0
7. Thermal Commissioning Equipment				-	
1	Precision pressure gauge		2	1,300.00	2,600.0
2	Pressure vacuum calibration table	ZK-1	1	1,700.00	1,700.0
3	Pressure comparison table	T1200 0~70MPa	2	3,300.00	6,600.0
4	Portable digital pressure calibrator	DPI610LP - 15Kpa~15Kpa	2	1,900.00	3,800.0
5	Intelligent heat meter calibration system	ZRJ-03B(10 channels)RJ-03B (10 channels)	2	1,765.00	3,530.0
6	Temperature calibrator (Portable dry furnance)	ATC-140B	2	2,050.00	4,100.0
7	Standard thermometer		2	4,400.00	8,800.0
8	Process calibration instrument		2	7,700.00	15,400.0
9	Portable circuit calibrator		2	15,000.00	30,000.0
10	Eddy current probe calibrator		1	1,900.00	1,900.0
11	Manual megohmmeter		2	2,200.00	4,400.0

8. Machining Equipment					
1	Lathe Machine	CD6240A	2	8,169.93	16,339.8
2	Lathe Machine	CW61613B	2	8,169.93	16,339.8
3	Radial drilling machine	Z3050×16A	2	8,169.93	16,339.8
4	Hacksawing machine	GT016	2	8,169.93	16,339.8
5	Three-roller universal machine	W11S-30×2500	2	8,169.93	16,339.8
6	Semi-automatic gas cutting machine	CG1-30	4	8,169.93	32,679.7
9. Installation Equipment					
1	Electric air compressor	4VF-6/8-A1	5	40,849.67	204,248.3
2	Pressure oil filter	150L	8	4,084.97	32,679.7
3	High-flow washing equipment	YDC-700	2	4,084.97	8,169.9
4	Beveling machine	GPK-80	8	4,084.97	32,679.7
5	Electric beveling machine	SDT800-2	2	4,084.97	8,169.9
6	Electrohydraulic pipe bender	f42-108	8	4,084.97	32,679.7
7	Electric tube expander	DE-A	4	4,084.97	16,339.8
8	Bench grinder	f250	16	4,084.97	65,359.4
9	Aluminium processing machinery		2	4,084.97	8,169.9
10	Abrasive wheel cutting machine	f400	20	4,084.97	81,699.3
11	Abrasive wheel cutting machine	f230	10	4,084.97	40,849.6
12	Angle grinder	f150	80	4,084.97	326,797.3
13	Angle grinder	f125	80	4,084.97	326,797.3
14	Angle grinder	100mm	100	4,084.97	408,496.7
15	Internal grinder	906	40	4,084.97	163,398.6
16	Impact hammer	TE22, TE24	8	4,084.97	32,679.7
17	Electric impact drill	F22	12	4,084.97	49,019.6
18	Magnetic electric drill		6	4,084.97	24,509.8
19	Electric wrench	6906	10	4,084.97	40,849.6
20	Torque wrench	O—500N.M	10	4,084.97	40,849.6
21	Pressure test pump	Hand-Operated	6	4,084.97	24,509.8
22	Electric pressure test	HB30D	8	4,084.97	32,679.7
23	Total-station instrument	SET2000	2	4,084.97	8,169.9
24	Theodolite	THEO 010B	2	4,084.97	8,169.9
25	Diesel generator	200KW/H	4	163,398.69	653,594.7
26	Diesel generator	600KW/H	3	408,496.73	1,225,490.2
27	Tug boats		4	820,000.00	3,280,000.0
28	Forklifts		15	90,000.00	1,350,000.0
29	Excavators		15	250,000.00	3,750,000.0
Wharf Project					
1	Jetty Equipment		1	34,121,764.71	
2	Barge of 365x92x22 ft 12,000 (tons) DWT/ with sideboards		15	3,000,000.00	45,000,000.0
3	Mitsubishi heavy industry coal unloading system	1.00		10,000,000.00	10,000,000.0
Civil Machinery					
Kenya Lamu 3x350MW project planned construction machinery (excluding desalination, wharf construction)					
No.	Description	Model & Specifications	Quantity	Price per	Total USD
1. Earth Work Equipment					
1	Backhoe excavator	CAT320B	15	269,607.84	1,617,647.06
2	Dozer	T220	4	245,098.04	980,392.16
3	Loader	ZL~50	10	183,823.53	1,838,235.29
2. Transportation Equipment					
1	Autodumper	T815	20	122,549.02	2,450,980.39
2	Autodumper	5T	10	61,274.51	612,745.10
3	Water tank truck		10	50,000.00	500,000.00
3. Concrete and Mortar Equipment					
1	Concrete mixing plant	HZS60	2	612,745.10	1,225,490.39
2	Concrete batching machine	PLD800A	2	500,000.00	1,000,000.00
3	Material loader	ZL50	4	500,000.00	2,000,000.00

4	Material loader	ZL30C	2	500,000.00	1,000,000.00
5	Concrete mixing transportation cart	6m ³	10	163,398.69	1,633,986.69
6	Concrete pump truck	HBB85	2	1,021,241.83	2,042,483.66
7	Concrete transport pump	HB60	4	204,248.37	816,993.48
8	Mortar mixer	HL~350	8	-	-
4. Lifting Equipment					
1	Track type crane	200t	1	700,000.00	700,000.00
2	Track type crane	50t	1	500,000.00	500,000.00
3	Truck crane	40t	2	150,000.00	300,000.00
5. Special Equipment					
1	Piling machine		10	612,745.10	6,127,450.10
2	Construction elevator	SCD-200/200	1	122,549.02	122,549.02
3	Diesel generator	200KW/H	2	163,398.69	326,797.38
4	Water purification equipment		3	-	-
6. Equipment					
1	Steel processing equipment		6	12,254.90	73,529.34
2	Woodwork equipment		4	12,254.90	49,019.60
3	Electric slag pressure welding machine		6	12,254.90	73,529.34
4	Flash butt-welding machine		4	12,254.90	49,019.60
5	Electric welder		10	12,254.90	122,549.02
6	Electric winch	5t	4	12,254.90	49,019.60
7	Electric winch	3t	4	12,254.90	49,019.60
8	Impact hammer	TE22, TE24	6	12,254.90	73,529.34
9	Hand drill	D6 ~ F22	10	12,254.90	122,549.02
10	Sand-wheel grinder		6	12,254.90	73,529.34
11	Angle abrader	100mm ~ f150	10	12,254.90	122,549.02
12	Bench grinder		4	12,254.90	49,019.60
13	Electrohydraulic pipe bender		2	12,254.90	24,509.80
14	Pneumatic drill (including hammer)		20	12,254.90	245,098.00
15	Submerged pump		20	12,254.90	245,098.00
16	Sewage pump	30~60 m ³	8	12,254.90	98,039.20
17	Vertical tamping		2	12,254.90	24,509.80
18	Frog Hammer		6	12,254.90	73,529.34
7. Lab Equipment for civil Works					
1	Hydraulic universal tester	WE-1000	1 set	20,000.00	20,000.00
2	Electric cement bending tester	KZJ-500	1 set	23,000.00	23,000.00
3	Pure cement mortar mixer	NJ-160B	1 set	45,000.00	45,000.00
4	Cement mortar mixer	JJ-5	1 set	68,000.00	68,000.00
5	Cement mortar compacting table	ZT-96	1 set	10,000.00	10,000.00
6	Cement setting time emter (vicat apparatus)	300g	1 set	12,000.00	12,000.00
7	Negative sieving instrument of cement fineness	FSY-150	1 set	18,000.00	18,000.00
8	Counter scale	AGT-10 type	1 set	16,500.00	16,500.00
9	Electric heating blower (constant temperature)	101-2A	1 set	32,000.00	32,000.00
10	Drying box		1 set	76,000.00	76,000.00
11	Mortar consistometer	SZ-145	1 set	17,000.00	17,000.00
12	Square-hole sand/stone sieve	0.15mm-9.5mm	1 set	1,500.00	1,500.00
13	Square-hole stone sieve	2.36mm-90mm	1 set	23,000.00	23,000.00
14	Boiling Box	CF-A type	1 set	21,000.00	21,000.00
15	Electronic platform balance	TCS-100 type	1 set	27,000.00	27,000.00
16	Roberval's balance	2000g	1 set	34,500.00	34,500.00
17	Flaky-shape gauging instrument		1 Nr	12,000.00	12,000.00
18	Rebar gauge length meter	BJ-10 type	1 set	3,000.00	3,000.00
19	Earth borrow ring-blade	200 mm ³	10 Nrs	2,000.00	20,000.00
20	Jolt type standard run-out meter	ZBSX-92A	1 set	1,500.00	1,500.00
21	Concrete permeameter	HP--40	1 set	1,500.00	1,500.00
22	Temperature Gauge	0—50℃	30 Nrs	1,000.00	1,000.00
23	Concrete compression test cube mould	150mm×150mm×150mm	16 groups	17,000.00	1,020,000.00
24	Mortar compression test cube mould	75mm×75mm×75mm	2 groups	15,000.00	30,000.00
25	Cement mortar test cube mould	40mm×40mm×160mm	6 groups	10,000.00	60,000.00

26	Standard volumetric cylinder	1~50L	1 set	5,000.00	5,000.00
27	Slump cone		1 Nr	4,000.00	4,000.00

However, in order to facilitate the processing of the exemption letters, you will be required to forward the import/purchase documents such as invoices, IDF, Airway Bill or Bill of lading and packing list plus any other relevant documents.


WANYAMBURA K. MWAMBIA
For: PRINCIPAL SECRETARY/NATIONAL TREASURY

cc.: The Managing Director
Kenya Power and Lighting Company Limited (KPLC)
NAIROBI

✓ M/s Amu Power Limited
NAIROBI


JM/rm