



LIST OF EQUIPMENT

No	Equipment	Specification	Use	Quantity
1	Air quality tester	JLDG, JD-3002	Measuring and monitoring air quality	2
2	Automatic sprinkler	(no brand)	Watering plants	1
3	Pruning	Manual	Cutting tree branches	2
4	Altimeter	Mingle	Measuring the height of a point above sea level	2
5	Anemometer	VWR	Measuring wind speed	1
6	Anemometer	No.7720-00	Measuring wind speed	1
7	Aquarium Heater	Amara HT-50, type pen	Warming the water to help optimizing the growth of the fish and aquascape plants and to reduce mold and bacteria	1
8	Barthicnes tester	No.59675		2
9	Bitterlich Treemeter	403.625	Measuring tree diameter	9
10	Calipher	Digital	Measuring the length, diameter, depth, and thickness of an object	1
11	Calipher	Krisbow, Kwo 6-69	Idem	2
12	Chain Saw	070/MS 720	Cutting wood	1
13	Clinocompas	SUUNTO	Determining the cardinal directions	1
14	Clinometer	SUUNTO	Measuring the height of an object by using the angle of elevation and trigonometric ratios	20
15	Clinometer		Idem	1
16	Desiccator		Removing purified water and crystals	4
17	Dew point hygrometer	HANNA HI 9565	Measuring humidity level	1
18	Digital camera binoculars	Poisant zoom12x, HD Video 1080P	Observing distant objects	1
19	Digital microscope	Model USB 1000x zoom Black	Observing small and detailed objects	1
20	Drone	DJI Phantom 4	Taking aerial photograph	1
21	Electrothermal		Heating a substance	1
22	Diameter tape	150 cm	Measuring tree diameter	12
23	Diameter tape	100 m	Idem	1
24	GPS	Garmin 78s	Navigating and tracking in a destined location	8
25	GPS	Garmin 78s	Navigating and tracking in a destined location	1
26	Grain moisture tester	Smart sensor AR.991	Identifying the moisture content of a substance	1
27	Grinder	BOSCH	Cutting items or objects to the desired size	1



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28	Grinder		Idem	1
29	Hagameter	HAGA	Measuring tree height	11
30	Hand refractometer	HT 212 ATC	Measuring salinity level	2
31	Handycam	SONY, DCR-TRV480E	Recording video	1
32	HT	JC-369	Distant ommunication using radio wave	2
33	Hygrometer	Hanna, HI 95665	Measuring humidity level	1
34	Hygrometer	BNQ	Idem	1
35	Hygrometer	HTC-2,	Idem	1
36	Hygrometer	Uni T UT.333	Idem	6
37	Hygrometer	Hear-Synth-Hygro	Idem	1
38	Hygrometer	GM 1360 A (USB)	Idem	1
39	Hygrometer	GM 1360 A (USB)	Idem	1
40	Magnifying glass		Observing small objects	1
41	Compass	Reguler	Determining the cardinal directions	2
42	Compass	Reguler	Idem as above	1
43	Electricity stove	Red	Heating, mixing and homogenizing chemical solutions	1
44	Kerosene lamp		Lighting lamp	1
45	UV lamp		Killing germs	1
46	Leaf Area Meter	Model LI-3000C, No.PAM-3267	measuring leaf: total area, mean area, length, width, thickness, perimeter, and the ratio of leaf length and width	1
47	Lightmeter	VWR	Measuring light intensity	1
48	Lightmeter	SUNCHE HS 1010	Idem	1
49	Luxmeter	DTJ-8820	Idem	1
50	Luxmeter	sper scientific840020	Idem	1
51	Magnifying glass	Ø 100 mm	Observing small objects	12
52	Magnifying glass	Ø 70 mm 9090	Idem	2
53	Magnifying glass	Ø 75 mm	Idem	5
54	Magnifying glass	Ø 50 mm	Idem	3
55	Rol meter	Stainless Steel 100 m SI	Measuring distance or length	6
56	Rol meter	30 m , MATSU	Idem	1
57	Microscope	Digital mini (HOT)	Observing small and detailed objects	1
58	Microscope	Binokuler, IM 910 B , No. Seri :2013/01-109112	Idem	1



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59	Microscope	Binokuler, No Seri : 000808	Idem	1
60	Microscope	Binokuler, Olympus, Model : CK 22 LEDRFS1	Idem	1
61	Microscope	Binokuler, Model, BM-180, No Seri : 000805	Idem	1
62	Microscope	Binokuler, IM 910 B ; No seri :2013/01-109123	Idem	1
63	Microscope	Binokuler, IM 910 B, No.Seri : 2013/01-109113	Idem	1
64	Microscope	Binokuler, XSZ-107B, No.011710	Idem	1
65	Microscope	Binokuler, IM 910 B, No.Seri : 2013/01-109124	Idem	1
66	Microscope	Binokuler, BM-180, No Seri : 000787	Idem	1
67	Microscope	Binokuler, IM 910 B, No Seri : 2013/01-109200	Idem	1
68	Microscope	Binokuler, Olympus, Model : CX22LEDDRFS1, T3 SN 4B 85110	Idem	1
69	Microscope	Binokuler, Olympus, Model : CX22LEDDRFS1, T3 SN 4B 85432	Idem	1
70	Microscope	Binokuler, IM 910 B, No Seri : 2013/01-109214	Idem	1
71	Microscope	Binokuler, IM 910 B, No Seri : 2013/01-10112	Idem	1
72	Microscope	Binokuler, CARTON DSZ44, Type SCWPF	Idem	1
73	Microscope	Binokuler, XSZ-107B, No Seri : 013143	Idem	1
74	Microscope	Binokuler, CARTON, CST-10	Idem	1
75	Microscope	Binokuler, CARTON, DSZ-44, Type : SCW-PF	Idem	1
76	Microscope	Binokuler, Model IM-SZ 500-B-ST2, No Seri:2013/01-75778	Idem	1
77	Microscope	Binokuler, CARTON	Idem	1
78	Microscope	Binokuler, CARTON	Idem	1
79	Microscope	Binokuler, Model IM-SZ 500-B-ST2, No Seri:2013/01-75781	Idem	1
80	Microscope	Binokuler, Model IM-SZ 500-B-ST2 No.Seri : 2013/01-75781	Idem	1
81	Microscope	Binokuler, Model IM-SZ 500-B-ST2 No.Seri : 2013/01-75789	Idem	1
82	Microscope	Binokuler, IM-SZ 500-B-ST2 NoSeri : 2013/01-75764	Idem	
83	Microscope	Binokuler, BOECO Model BTB 3 AG090033557	Idem	1
84	Microscope	Binokuler, BOECO Model BTB 3 AG.000093	Idem	1



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85	Microscope	Binokuler, IRMECO Model IM-SZ 500-B-ST2 No.Seri : 2013/01-75764	Idem	1
86	Microscope	Binokular (two lenses), DSW 10X/ 23-0	Idem	1
87	Microscope	Binokuler, IRMECO Model IM-SZ 500-B-...	Idem	1
88	Microscope	Binokuler, BM 180 No.000785	Idem	1
89	Microscope	Binokuler,IRMECO, model IM-SZ500-B-ST2, No Seri : 2013/01-75788	Idem	1
90	Microscope	Okuler, Olympus HSC 624689 manual	Idem	16
91	Microscope	Binokuler, IM 910 B, No.Seri : 2013/01-109211	Idem	1
92	Microtome		Slicing biological specimens into very thin sections for microscopic examination	1
93	Multitester	SANWA YX-360 TRE	Measuring instrument used to determine the size of electric voltage, resistance, and electric current	1
94	Munsel Color chart plant	Plant	Analyzing plant tissue color	3
95	Munsel Soil Color Charts	Soil	Identifying soil color	2
96	Optilab		Documenting microscopic objects by converting an analog microscope into a digital microscope	1
97	Oven	MEMMERT	Drying the samples	1
98	Oven	Memmert	Idem	1
99	Oven	MEMMERT UM 30	Idem	1
100	Petridish	ANUMBRA	Vessel for culturing bacteria, yeasts, spores, or seeds	100/15
101	Petridish	ANUMBRA	Idem	100/15
102	pH meter	type pen, mode PH-009(1)A	Measuring acidity and alkalinity	1
103	pH meter	HANNA HI 99121	Idem	2
104	pH meter	PH 320, portable set 2	Idem	1
105	pH meter	digital, portable, consort	Idem	2
106	Scalpel		Dissecting the samples	19
107	Grafting knife		Cuttings small plant stems	6
108	Pruning		Cutting tree branches	3
109	Planimeter	digital/Tanaya	Calculating area	2
110	Planimeter	ddigital, placom,KOIZUMI, Type KP 90N	Idem	2
111	Planimeter	manual	Idem	1
112	Planimeter	lasico / manual	Idem	2



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113	Portable refractometer	ATC	Measuring salinity	
114	Rain log		Measuring rainfall intensity	1
115	Ring sampler	Stainless steel	Taking soil samples	20
116	Ring sampler	Ø 4 cm steel	Idem	200
117	Ring sampler	Ø 4 cm steel	Idem	200
118	Sea water refractometer	HANNA, HI 96822	Measuring salinity	4
119	Sling psicrometer		Measuring temperature	1
120	Soil moisture tester	Delmhosst-KS-DI4867	Measuring soil moisture	4
121	Soil pH test kit	HI 99121, HANNA	Measuring 3 parameter values contained in the soil; humidity, temperature, and soil pH	1
122	Soil tester		Idem	4
123	Solar power meter	PCE-SPM 1	Measuring solar radiation, flux density of solar shortwave radiation	2
124	Solar Power Meter	PCE-SPM 1	Idem	1
125	Stereoscope	Type F-71 No.Seri.14145 TopCon	Observing a pair of images/photos stereoscopically	2
126	Stereoscope	SOKKIA PS4A CASELLA	Idem	1
127	TDS meter	model pen TDS-3	Measuring total solids or particles dissolved in water	2
128	Telescope	steiner	Observing distant objects	1
129	Dome tent		Camping activities	2
130	Binoculars	Riflehunter 1000. NIKON	Observing distant object	2
131	Binoculars	Action Binokuler, 8x40CF, NIKON	Idem	1
132	Binoculars	Wildlife pro 10,5x28	Idem	2
133	Binoculars	DCF 8x21, 136mmx1000 mm	Idem	1
134	Binoculars	NIKON	Idem	1
135	Theodolite		Determining horizontal and vertical angles	1
136	Thermometer	Max-Min	Measuring the maximum and minimum temperature	6
137	Stick thermometer		Idem	2
138	Thermometer infrared	KIMO, KI ray 200	Measuring temperature across a range of industrial and clinical environments	10
139	Thermometer infrared	Kiray 200	Idem	3
140	Thermometer infrared	-50-380 derajat celcius (orange)	Idem	1
141	Analytical balance	AND, Balance, FY-600, Cap. 0,01 g	Weighing the mass of objects in the sub-milligram range.	1
142	Analytical balance	Radwag wps	Idem	1



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143	Analytical balance	AND GF-3000	Idem	1
144	Analytical balance	KERN	Idem	1
145	Digital balance	Digital professional lab. 500gx0,01 g	Weighing the mass of objects	1
146	Digital balance	Digital professional. Cap.50 gx0,001 g	Idem	1
147	Hanging scale	50 kg x 200 g, KHOHEX	Weighing the mass of objects	1
148	Cooking scale	Cap. 5 kg (biru)	as a measurement to measure the weight or load or mass in a substance.	1
149	Automatic lamp timer	Kaiser	Turning on and off various electric tools automatically	1
150	Waterbath		Incubating samples at a constant temperature	1
151	Water flow meter	Flow Watch	Measuring the amount of water flowing through a pipe	1
152	Water filter purifier	Membrane Pure	Filtering contaminants such as dirt, germs, and other harmful microorganisms contained in water using a filter or filter	1
153	Webbing	Set	Safety equipment	1
154	Wood chip moisture tester	WCT Agratonix	Determining the moisture content of the wood	2
155	Spectrophotometer	Safas	Measuring the amount of photons absorbed	1
156	Tree pruner		Cutting high tree branches	2
157	Generator set		Backup power when the power goes out	
158	Light trap		Collecting nocturnal insect samples	3