Proposal on School Science Lab

Emmanuel English Boarding School
Madhyapur Thimi-3, Bhaktapur

School Premises

PROJECT NAME: Installation of Science Equipment in the Science Lab (SLaB)

PROJECT SUMMARY: Arrangement of Science Equipment in the Science Lab

APPROXIMATE PROJECT DATES: 5th June 2025 – 30th Aug 2025

ABOUT THE COMMUNITY: Madhyapur Thimi Bhaktapur is a vibrant and culturally rich community located in the Kathmandu Valley of Nepal, renowned for its deep-rooted traditions, skilled artisans, and strong sense of local identity. This ancient town, situated between Kathmandu and Bhaktapur, is especially famous for its exquisite pottery, colorful festivals, and beautifully preserved Newar architecture. The residents of Madhyapur Thimi are predominantly Newars, an indigenous group known for their artistic heritage, unique cuisine, and communal way of life. Festivals like Biska Jatra highlight the town's spirit, drawing crowds with chariot processions, traditional music, and vibrant rituals that reflect the harmonious blend of Hindu and Buddhist practices. Despite urban development, the community remains closely knit, with a strong emphasis on preserving cultural values and promoting local craftsmanship.

ABOUT THE SCHOOL: Emmanuel English Boarding School, located in Gatthaghar, Bhaktapur. It was established on (1997 A.D.) 2054 B.S. The principal is Rajendra Shrestha. The school has 332 students in total and among them 162 is girls and 170 are boys. 32 teachers provide quality education to the students. 11 non teaching staff provides continuous service to the whole school beneficiaries. It provides a dynamic learning environment for students from Playgroup to Grade 10. It is an English medium co-educational school, stands out with unique academic environment and proven quality education. It is located at a spacious domain, surrounded by a pleasant and stimulating atmosphere and enriched by innovative approaches, this school resorts to spiritual education abreast of modern technology in order to produce refined human resource.

We observed how knowledge gets created, disseminated and consumed. Then, we put our best possible efforts to sow the seeds of knowledge into the minds of our scholars with a view to growing a tree of knowledge with the most sacred fruit. We believe the ultimate goal of education is to cultivate one's heart to serve humanity. Hence, Emmanuel English Boarding School is an attempt to address the core issues in education.

PRESENT SITUATION OF SCIENCE LAB

Present situation of Science Lab

The science lab of school right now has few science equipments which is insufficient to the students to do practical. There is few rack and has no sink and not access of water. There is no table or slab to do practical for the students.

VISION: Emmanuel English Boarding School envisions a world in which every child, regardless of background, becomes a healthy and productive adult.

MISSION: Emmanuel English Boarding School strives to prepare all students to become lifelong learners and responsible citizens ready to meet the challenges of the future. In partnership with families and community, our goal is to create relevant learning opportunities for students – both inside and outside the classroom – that help them develop the knowledge, critical thinking skills, and character necessary to succeed in a technologically advanced world. We honor quality and enable students to perform at their highest level of ability.

OBJECTIVES: A truly educated child is nation's greatest treasure. To materialize this statement, Emmanuel English Boarding School aims at:

- Exploring and developing the hidden potentials of the students
- Enthusing students minds for knowledge and wisdom
- Inspiring and strengthening students to cope with the complexities of life
- Making students loyal to the nation and nationality
- Blending the wisdom of the traditional east with the scientific and technological advancement of modern west
- Promoting the essence of self-confidence, self-dependence and moral behavior

Budget:

S.N.	Particulars	Packing	Quantity	Unit Rate	LSF/E4E	School	Total
	Biology						
1	DNA model	Set	1	1900	-	1900	1900
2	Educational Charts	Pc	1	350	-	350	350
3	Eye model	Set	1	650	650	-	650
4	Heart Model	Set	1	650	650	-	650
5.	Human Skeleton model,1 ft. plastic	Pc	1	650	-	650	650
6	Kidney model	Pc	1	650	-	650	650
7.	Microscope, compound	Set	1	6500	6500	-	6500
8	Musuem Specimens, common type	Pc	1	500	-	500	500
9.	RNA model	Set	1	1850	-	1850	1850
10	Lungs model	Pc	1	700	-	700	700
11	Teeth model	Pc	1	1500	-	1500	1500
12	Prepared slides	Pc	6	100	-	600	600
13	Glass Slides	pkt	2	100	100	-	100
14	Cover Slip	pkt	2	80	160	-	160
15	Glycerin	Btl	5	450	450	-	450
16	Ethanol	Btl	2	300	300	-	300

17	Dissection box	Set	2	1200	2400	-	2400
	Chemistry						
18	Ammonia Solution	500ml	2	500	1000	-	1000
19	Ammonium chloride	500ml	2	500	1000	-	1000
20	Beaker,250ml,Borosil	Pc	5	300	1500	-	1500
21	Beehive shelf	Pc	3	110	330	-	330
22	Bunsen burner	Pc	3	600	1800	-	1800
23	Iron stand	Set	3	900	2700	-	2700
24	Burette	50 ml	3	650	650	-	650
25	Calcium carbonate	500 gm	2	350	700	-	700
26	Calcium Hydroxide	500 gm	2	350	700	-	700
27	Camphor	100 gm	2	650	1300	-	1300
28	Carbon rod	Pc	5	200	-	1000	1000
29	Conical flask,250ml,borosil	Pc	4	250	-	1000	1000
30	Copper plate	Pc	3	150	-	450	450
31	Zinc plate	Pc	3	150	-	450	450
32	Copper Sulphate	500 gm	2	750	-	1500	1500
33	Cork,big	Pc	5	35	175	-	175
34	Cork,medium	Pc	5	25	125	-	125
35	Cork,small	Pc	5	20	100	-	100
36	Delivery tube	Pc	5	20	100	-	100
37	Distillation set	Set	1	2400	2400	-	2400
38	Dropper,plastic	Pc	5	15	75	-	75
39	Filter paper	pkt	5	150	750	-	750
40	Formaldehyde solution	500 ml	2	400	800	-	800
41	Funnel,plastic	Pc	5	50	250	-	250
42	Funnel,glass	Pc	5	150	750	-	750
43	Gas ,jar	Pc	3	250	750	-	750
44	Glass rod	Pc	5	25	125	-	125
45	Hydrochloric acid	500 ml	2	600	1200	-	1200
46	Iodine Solution	125 ml	2	250	500	-	500
47	Iron metal	500 gm	2	400	800	-	800
48	Lime water	500 ml	2	250	500	-	500
49	Litmus paper red/blue	pkt	5	110	550	-	550
50	Magnesium ribbon	roll	2	175	350	-	350
51	Marble chips	500 gm	2	300	600	-	600
52	Measuring Cylinder,250 ml	Pc	5	250	250	-	250
53	Methyl orange	125 ml	2	250	500	-	500
54	Motor and pestle,3’’	Pc	2	400	800	-	800
55	Nitric acid	500 ml	2	700	1400	-	1400
56	Overflow can	Pc	5	75	375	-	375
57	Overflow can,tin	Pc	5	200	1000	-	1000

58	Periodic table	Pc	2	500	1000	-	1000
59	PH paper	pkt	2	200	400	-	400
60	Hydrogen peroxide	500 ml	1	300	300	-	300
61	Manganese dioxide	500 gm	2	400	800	-	800
62	Phenolphthalein	125 ml	2	250	500	-	500
63	Pipette,graduated,5 ml	Pc	3	300	900	-	900
64	Pipette,Graduated ,10ml	Pc	4	100	400	-	400
65	Porcelain basin	Pc	5	100	500	-	500
66	Potassium chlorate	500 gm	2	900	1800	-	1800
67	Potassium hydroxide	500 gm	2	700	1400	-	1400
68	Rain gauze	Pc	1	900	900	-	900
69	Round bottom flask,250 ml	Pc	3	250	750	-	750
70	Salfranine	125 ml	1	250	250	-	250
71	Sodium chloride	500 gm	2	250	500	-	500
72	Sodium hydroxide	500 gm	2	600	1200	-	1200
73	Sodium metal	100 gm	2	500	1000	-	1000
74	Sodium thiosulphaye	500 gm	2	400	800	-	800
75	Spirit	450 ml	5	150	750	-	750
76	Spiriy lamp	Pc	5	150	750	-	750
77	Sulphuric acid	500 ml	2	700	1400	-	1400
78	Test tube,regular	Pc	20	25	500	-	500
79	Test tube, hard glass	Pc	10	55	550	-	550
80	Test tube holder	Pc	10	55	550	-	550
81	Test tube rack	Pc	5	110	550	-	550
82	Thistle funnel	Pc	3	100	300	-	300
83	Tong	Pc	2	200	400	-	400
84	Top pan balance	Pc	1	900	900	-	900
85	Tripod stand,small	Pc	2	250	500	-	500
86	Tripod stand,big	Pc	2	250	500	-	500
87	Volumetric flask, 250 ml	Pc	3	550	1650	-	1650
88	Wash bottle	Pc	5	150	-	750	750
89	Water trough	Pc	5	400	-	2000	2000
90	Woulfe’s bottle	Pc	2	450	900	-	900
91	Zinc metal	100 gm	2	400	800	-	800
	Physics						
92	Atomic model	Set	1	1650	1650	-	1650
93	Bar magnet 2’’	pair	5	250	1250	-	1250
94	Bar magnet 3’’	pair	5	300	1500	-	1500
95	Concave/convex lens	Pc	5	100	500	-	500
96	Drawing board	Pc	5	650	3250	-	3250

97	Electric bell	Set	1	1200	1200	-	1200
98	Electric motor model	Set	1	1200	1200	-	1200
99	Electromagnet	Pc	3	500	1500	-	1500
100	Glass slab	Pc	5	150	750	-	750
101	Horse shoe magnet	Pc	5	225	1125	-	1125
102	U-shaped magnet	Pc	5	225	1125	-	1125
103	Hydraulic press	Set	1	1850	1850	-	1850
104	Hydrometer	Pc	1	7000	7000	-	7000
105	Inclined plane	Set	1	2000	2000	-	2000
106	Laboratory thermometer	Pc	2	175	350	-	350
107	Lime tower	Pc	1	800	800	-	800
108	Magnetic compass	Pc	5	40	20	-	200
109	Magnifying lens	Pc	5	400	2000	-	2000
110	Max-min thermometer	Pc	5	600	3000	-	3000
111	Newton color disc	Pc	2	600	1200	-	1200
112	Ring and ball apparatus	Set	2	400	800	-	800
113	Periscope	Set	5	550	2750	-	2750
114	Plane mirror	Pc	5	150	750	-	750
115	Prism, small	Pc	5	150	750	-	750
116	Prism, big	Pc	5	200	1000	-	1000
117	Pulley, single	Pc	1	150	150	-	150
118	Pulley, double	Pc	1	250	250	-	250
119	Pulley, triple	Pc	1	350	350	-	350
120	Room thermometer	Pc	2	250	500	-	500
121	Ward Mill model	Set	1	1500	1500	-	1500
122	Spring balance	Pc	5	250	1250	-	1250
123	Stop watch	Pc	5	350	1750	-	1750
124	Telescope	Set	1	10000	-	10000	10000
125	Dynamo model	Pc	1	1400	1400	-	1400
	Misscellaneous						
127	Sink with slab	Set	1	35000	-	35000	35000
128	Practical table	Pc	3	15000	-	45000	45000
129	White board (large size)	Pc	1	4000	-	4000	4000
	Project mgmt.		1		21,597	21,970	43,567
				Total	**129,582 (49.6%)**	**131,820 (50.4%)**	**261,402**

Note # 13% VAT will be included

Committee Members:

1.Bindhya Sharma(CM)-Leader

2.Rajendra Shrestha(Principal)-Member

3.Asha Kaji Shrestha (Teacher)-Member

4. Abhilasha Shrestha (Teacher)-Member

5. Nashala Shrestha(10) (LSF/E4E girl)-Member

6. Pratikshya Khatri (8) (LSF/E4E girl)-Member