

**ABOUT THE PROPOSED SCIENCE CENTER:**

21<sup>st</sup> Century is the age of Science and technology .Therefore science and technology plays an important role in the socio-economical development of a nation. India is a developing country that needed more exploration relating to science and technology. Our main aim is to be a developed country in the world. To achieve this goal we must explore our young brains with scientific temperament.

Our institution ZILLA SCHOOL, BHADRAK (ZSB) is a Premier Institution in the Dist of 'Bhadrak' and in the state of 'Orissa'. It is a 125yr old institution nourishing young brains with Knowledge and Technology, which is very much essential and inevitable in this age of globalization.

So to make our Science and technology education much stronger we want to develop our science laboratory as a "SCIENCE CENTER" where the students can perform various scientific experiments relating to Physics, Chemistry, Biology and also can watch scientific displays through models, microscope, slide-projector, overhead projector and PowerPoint presentation. This will not only develop their skill but also scientific temperament.

We are happy to inform you that Dept. of Science and Technology, Govt. of India is going to set-up Metrological instruments and "METLAB" in this school recently. So the students can measure Weather Parameters and can be able to know about Climatic changes.

Again Indian Space Research Organization (ISRO) have been pleased to provide equipments to our school for 'EDUSAT' programme

from which children can learn and interact with various learned persons and scientists throughout the country.

We have decided to make a routine programme for the students of the neighbouring schools and rural schools in the Dist. of Bhadrak, so that they can avail of all these facilities and would be able to get an unique saga of Science, Technology and E-learning.

Soliciting your helpful hand and sympathetic action in the matter.

**Thanking you,**

**Headmaster,**

**Zilla School, Bhadrak.**

## **OUR NEED FOR THE SCIENCE CENTER.....**

### **SUITABLE HAND FOR LABORATORY MANAGEMENT**

**(LABORATORY ASSISTANT)** :- We need monetary help from "JOGA", So that we can engage a suitable person to manage the laboratory work timely and systematically, who can also run the laboratory on full time basis and will help the teachers in performing various scientific experiments, and exhibitions for our students and also for the students of the other schools in the locality.

**L.P.G GAS PROVISION** :- We need monetary help from "JOGA" so that we can be able to buy 'L.P.G' for the laboratory use purpose, throughout the year.

**LONG EXPERIMENTATION TABLE**:- We need a long table (18'\*4) to fit Bunsen burners so that students themselves can also perform experiments on their own , with guidance of the teachers.

### **SCIENTIFIC INSTRUMENTS, MODELS, CHARTS, SLIDES AND CHEMICALS WE REQUIRE**

#### **SCIENTIFIC INSTRUMENTS :-**

1. Bunsen Burner with stand-5 Nos
2. Microscope (Compound-10x)-3Nos
3. Through -2Nos
4. Beehive Shelf-2Nos
5. Electroscope-1Nos
6. Electric Bell-1Nos
7. Eliminator-1Nos

8. Lens Stand-1Nos
9. Spring Balance-1Nos
- 10.Storage Battery(12v)-1Nos
- 11.Galvanometer-1Nos
- 12.Ammeter-1Nos
- 13.Voltmeter-1Nos
- 14.Lactometer-1Nos
- 15.Acid –Battery Hydrometer-1Nos
- 16.Slide Projector-1Nos
- 17.Volta Meter-1Nos
- 18.Pipette-5Nos
- 19.Sphigmomanometer-1Nos
- 20.Solar Cell-1Nos
- 21.A.C Generator-1Nos
- 22.D.C Generator-2Nos
- 23.Camera-1Nos
- 24.Electric Circuit-1Nos
- 25.Rheostat
- 26.Wheatstone's Bridge

**MODELS :-**

1. Lungs Model-1Nos
2. Brain Model-1Nos
3. Hearts Model -1Nos
4. D.N.A Model-1Nos
5. Kindney Model-1Nos
6. Lymphatic System Model-1Nos
7. Reproductive System Model -1Nos
8. Diffrent types of Rocks Model -1Nos

9. Different types of Coals Model -1Nos
10. Atomic Structure Model -1Nos
11. Model of Animalcell-1Nos
12. Model of plantcell -1Nos

SLIDES:-

1. Plantcell
2. Animalcell
3. Micro-organisms
  - (a) Bacteria
  - (b) Protozoa
  - (c) Algae
  - (d) Fungi
  - (e) Virus
4. R.B.C of human
5. W.B.C of human
6. Platelets
7. Plant and animal tissues
8. H.I.V Virus

CHEMICALS

1. Cupper Sulphate
2. Potassium Permanganate
3. 90% Rectified Spirit
4. 70% Alcohol
5. Eosin
6. Hematoxilin
7. Glycerine Solution
8. feeling Solution

9. 1% Starch Solution
10. Anhydrous Glucose
11. Benedict's Solution
12. P.H. Paper
13. Methyl Alcohol
14. Potassium Iodide
15. Lead Nitrate
16. Sulphuric Acid
17. Copper metal
18. Zinc metal
19. Magnesium wire

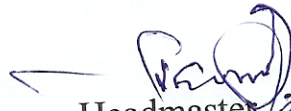
### CONCLUSION

The Zilla School, Bhadrak(ZSB) offers unique opportunity for formal and technical education to thousands of children of Bhadrak Dist and also other parts of the state. As a premier educational institution of the state it needs to set high standards relating to Science and E-learning.

So, it is our honest appeal to "JOGA" and Prof. Dr. Naresh Chandra Dash, Scientist, NASA, U.S.A. to extend their helping hands to fulfill our needs that we narrated in this project and to make our institution technically self sufficient and outstanding one.

At last I hope our dream will come true.

Dt- 21.02.2008

  
Headmaster 21-2-08  
Zilla School, Bhadrak  
Bhadrak, Orissa