1. DEPARTMENT PROFILE 2017-2018

- a) Chemistry Department
- b) Zoology Department
- c) Botany Department
- d) Physics Department
- e) Mathematics Department
- f) Home Science Department
- g) Computer Science Department
- h) Electronics Department
- i) Biochemistry Department
- j) Geology Department
- k) English Department
- 2. DEPARTMENTAL REPORT EVEN SEMESTER
- 3. DEPARTMENTAL REPORT ODD SEMESTER
- 4. STUDENTS MENTORING SYSTEM EVEN SEMESTER
- **5. STUDENTS MENTORING SYSTEM ODD SEMESTER**
- 6. UNIVERSITIES RANK HOLDER FOR THE CURRENT YEAR 2017
- 7. RESEARCH AND PUBLICATION
- 8. SEMINAR AND WORKSHOP
- 9. ACTIVITIES AND ACHIEVEMENTS OF VARIOUS SUB COMMITTEES
- 10. NEW INFRASTRUCTURE AND FACILITIES ACQUIRED
- 11. YEAR WISE EXPENDITURE UNDER UPGRADATION TO MODEL

DEGREE COLLEGE GRANT

- 12. ABSTRACT OF EXPENDITURE OF FUNDS FROM UP-GRADATION/RENOVATION OF EXISTING COLLEGES TO MODEL DEGREE COLLEGES SCHEME
- 13. ANY OTHER RELEVANT INFORMATION.

2. DEPARTMENTAL REPORT EVEN SEMESTER (JAN-JUNE 2017)

| | | ings | | | lasse taker | | |
|---------|--------------|---------------------------------------|--|-------|----------------|------|-----------------------------------|
| SI. No. | Departmen | No. of meetings Resolutions in prief | | 2 sem | 4 sem | esem | Departmental activities |
| 1 | CHEMISTRY | 2 | Distribution of Topics Preparation of requirement list Finalization of Topic Distribution for upcoming 1st and 5th Semester | 98 | 66 | 129 | Visited surrounding industries |
| 2 | HOME SCIENCE | 1 | Appointment of class teachers Monthly contribution renewed Participation in seminar To Organise exhibition on food adulteration,etc. To meet mentees Re-appointment of teachers in each sem. Submission of department Requirement to RUSA | 215 | 237 | 233 | Exhibiton of food adulteration |
| 3 | BIOCHEMISTRY | 1 | Distribution of assignment, Topics Monthly meeting Distribution of topics for 2nd internal. | 09 | 62 | AN | Nil |
| 4 | MATHEMATICS | 2 | Preparation of routine and work distribution requirement of 1 part time lecturer Distribution of exam duty Recruitment of new teacher marks compilation Mentees attendance & marks Distribution of marks exam duty allotment | 58 | 55 | 84 | Nil |
| 5 | ELECTRONICS | 1 | Appointment of Departmental Secy. Question setting for internal exams Topic already taught during Jan Syllabus covered already. Pattern of seminar presentation for 4th semester Dept report for Feb | 64 | 69 | AN | Nil |

| | | | 7.receipt of books 8.Review of dept. report of Jan 9. syllabus covered already. 10. Preparation for seminar 11. Dept report for Mar 12.Pract marks distribution 13.Pract exam score sheet 14. Review of Univ exam | | | | |
|----|------------------|---|--|-------------------|-----|-----|---------------------------------------|
| 6 | BOTANY | 2 | Distribution of Topics Distribution of assignment topics Schedule of Monthly meeting Distribution of Topics Checking & verification of new equipments Teachers-students meet/counselling | 79 | 72 | 72 | Nil |
| 7 | ZOOLOGY | 1 | Maintain Register for equipments Rearrange and check new lab equipments Lab & Book requirement for RUSA | 84 | 72 | 100 | Computer Practical on Bio informatics |
| 8 | PHYSICS | 1 | Monthly meeting Field trip for VI sem students Disposal of old furnitures Field trip for VI sem students Appointment of works of lab asst. Compilation of marks | 59 | 52 | 114 | Nil |
| 9 | ENGLISH | 2 | Distribution of papers & lesson plan. Rearrangement of lesson plan Enquiry for less attandance of students Improvement of students' skill in English More efforts to make interest in English | Onl Sc. H.S | • | | Nil |
| 10 | GEOLOGY | 1 | Routine distribution Departmental requirement for RUSA Departmental fund contribution Preparation of common Practical record book for all classes | 80 | 73 | 110 | Nil |
| 11 | COMPUTER SCIENCE | 1 | Subject distribution for even semester 2017. Preparation of requirements for RUSA Final preparation of time table To let know parents students performance in 1st internal exam Conduct one day workshop for final yr students | 205 | 228 | 124 | Mentor-mentees meet |

| | 6. To conduct test or assignments for | | | |
|--|---------------------------------------|--|--|--|
| | improvements of students | | | |

3. DEPARTMENTAL REPORT ODD SEMESTER (JULY-DEC 2017)

| | | ngs | | Clas | ses ta | ken | |
|---------|--------------|-----------------|--|-------|--------|------|---|
| SI. No. | Department | No. of meetings | Resolutions of meetings in brief | 2 sem | 4 sem | 6sem | Departmental activities |
| 1 | CHEMISTRY | 6 | 1.Results analysis of last semester 2. Suggestion of remedial classes 3. lab requirement submission 4. To organize regional workshop in collaboration with MZU Chemistry dept. 5. Review of Regional Workshop at MZU, chemistry dept. 6. Unit distribution for next semester. 7. 2nd Internal Questions 8. Participation in Science exhibition 9. Practical exam routine for 5th sem. 10. Central Evaluation duty 11. Online mark entry to MZU 12. Remedial classes | 181 | 168 | 688 | Students attended Regional workshop Participated in Science exhibition Remedial Classes were organised from 30.10.2017- 3.11.2017 for repeaters. |
| 2 | HOME SCIENCE | 8 | 1. Adopted Community at Ramthar. 2. Workshop on Mental Health-life skills 3. Visit School 4. Mentor-Mentees distribution 5. Meeting with ex-students 6. Review of Students performance in 1st int. exam 7. Dept. report 8. Lab. Bearer 9. Adopted Village (RUSA) 10. 5th Semester Field Trip 11. Programme with MHIP Ramthar Branch 12. Submission of Dept reports and Mentoring 13. Selection of Eligible students etc. 14. Review of Com Dev programme 15. Submission of Nov Dept report 16. Central evaluation of MZU | 234 | 256 | 227 | Visited SWD Assignment given to students Exhibition of food adulteration Procurement of work counter for Nutrition Lab Organized community development programme with Ramthar MHIP Invigilation duties for end sem. Placing order for journal of Home Science |

| | | | exams | | | | |
|---|--------------|---|---|----|----|-----|--|
| | | | 17. Distribution of work load, etc | | | | |
| 3 | BIOCHEMISTRY | 7 | 1. Maintenance of Students mark profiles 2. Classroom rearrangement for power point presentation 3. Preparation of Proforma 4. Distribution of seminar topics 5. Mentees personal data collection of seminar topics 6. Mentees personal data collection 7. Discussion on Improvement of teaching methods 8. Circulation of study materials 9. Model display for Exhibition org, by Innovation club. 10. Review of Sc. exhibition 11.Final attendance of students 12. Internal marks 13. Conducting Practical exam 14.Online submission of internal marks 15.Submission of books requirements. | 81 | 85 | NA | Teachers performed well in end semester UG exams. |
| 4 | MATHEMATICS | 7 | 1. Topic distribution 2. Formation of duty chart 3. Formation of excel chart mark compilation 4. Setting Qs for 1st internal 5. Distribution of mentee to mentors 6. Distribution of Invigilation duty internal 7. Model display for Innovation Club Exhibition 8. Compilation of 2nd internal questions 9. Duty list for 2nd int. exam 10. Internal marks compilations 11. Assigning teacher for online marks upload to MZU website 12. Preparation of Departmental report | 92 | 86 | 303 | Preparation for end semester exams and centre evaluation |

| 5 | ELECTRONICS | 6 | 1. Syllabus covered by each teacher 2. Appointment of Deptt Secretary for this semester 3. Dept report for Odd semester 4. Qs setter, pattern and marks distribution for internal exam 5. Method to be followed for 3rd Internal assessment 6. Syllabus covered by each teacher. 7. Review of 1st Internal exam results 8. Seminar topic distribution for 3rd Semester 9. Enquire to introduce core subject 10. Syllabus covered by each teacher. 11. Display in display board 12. Site visit of Durtlang Campus 13. Practical examination. 14. Seminar topics for 3sem 15. Departmental display at Exhibition organised by Innovation Club 16. Core subject for Electronics 17. Conducting Practical exams. 18. Final selection of Display in display board 19. Introduction of core subject 20. Syllabus topic distribution for 2018 even semester 21. Reassignment of topics for nest semester 22. Preparation for Central Evaluation 23. Departmental report 24. Online portal for internal marks, etc. | 88 | 94 | NA | 2nd Internal exam conducted. Practical exams conducted Seminar for 3rd sem students conducted. participated in Science exhibition 1 teacher namely Mr Jonathan Lalrinmawia interviewed for the Academic Officer Job under MBSE and was successful. |
|---|-------------|---|---|----|----|-----|--|
| 6 | BOTANY | 7 | Distribution of Topics Arrangement of Class Routine Teachers-Students meet of 5th Semester Field Trip Distribution of Topics and marks for 2nd internal Review of Counselling of V | 83 | 78 | 213 | All Teachers participated in PT meet Counselling of 5 Semester students for improvement in academic Study trip Participated in Science Exhibition 1 teacher attended RUSA |

| | | | Semester students 7. Compilation of internal exam 8. Preparation for Practical exam 9. Science exhibition 10. Field trip 11. Report on Compilation of internal exam 12. Review of Practical exam 13. Distribution of topics for next semester | | | | Regional meeting at New Delhi |
|---|---------|---|--|-----|----|-----|--|
| 7 | ZOOLOGY | 4 | Set Up of New Routine Distribution of Topic Distribution of Mentees Division of Setting Qs and paper evaluation Assignment of Invigilation duty for Test To organise Field trip Bulletin Board Model for display Participation in Science exhibition End Semester exam and Centre evaluation | 74 | 96 | 248 | Conducted Virtual Lab for V sem and smart Class by using digital aids Computer Practical on Bio inforamatics Project to collect and identify animal species for 1sem Participated in Science exhibition Conducted Practical exams teacher appointed as Winter school coordinator. Training on EAT module attended by a teacher |
| 8 | PHYSICS | 5 | Distribution of Topics Routine preparation Review of last University exam Preparation of guidelines for practical marks Assignment of students for exhibition End semester Practical routine preparation Preparation for Exhibition Programme organised by Innovation Club Topic & Routine preparation Online entry of internal marks Duty assignment for teachers Topic distribution for next year | 76 | 75 | 198 | I teacher became a Life member of Nuclear track Society of India Univ. exams conducted as invigilators by teachers |
| 9 | ENGLISH | 6 | 1. Improvement of students in English Grammer 2. Arrangement of Classes for teachers on leave 3. Guest teacher about her class 4.Teacher on medical leave 5.Improvement of teaching 6. Re-arrangement of periods 7.Date setting for Oral | 203 | NA | Ν | Field work near college campus on 12.10.2017 |

| | | | communication practice 8. List of Book requirements | | | | |
|----|------------------|---|--|-----|-----|-----|---|
| 10 | GEOLOGY | 4 | Class Test every month at least once in a month Conducting of Seminar every Wednesday for 5th Semester Winter Special coaching class for 5th Semester | 87 | 87 | 324 | Field work around Aizawl on 2.8.17 Field work around Aizawl on 18.9.17 Field work near college campus on 12.10.2017 End semester invigilations Central evaluation for MZU UG exams. |
| 11 | COMPUTER SCIENCE | 4 | Subject distribution On Internal exams Mentors & Mentee list Seminar and Computer Clinic by department First Internal Test Review Mentor-Mentees Meeting Plan to organise National/State/College level Seminar Course coverage by teachers Mentor-Mentees Meeting Review of retest Course coverage by teachers Computer lab Requirement Review of Odd sem. Practical exam duty Univ. internal marks, etc. Lab preparation for exams Practical exam duty list Internal marks submission. Books requirements Invigilation duty. | 268 | 273 | 261 | Mentor-mentees meet Dept. participated in Science exhibition Performed invigilation duties |

4. STUDENTS MENTORING SYSTEM EVEN SEMESTER

| CI | ent | Fa | culty (Mentor) | No. of | se | _ | ~ a | Any other |
|-----|--------------|----------|------------------------|------------------|-----------|-----------------|---------------------|-----------------------------|
| SI. | Department | SI. | Name | Mentees reported | own house | rented house | Hostel/ Relative | information |
| No | par | No. | | as on | vn | ren | Hos Rela | |
| 110 | De | | | Jan | 0 | | | |
| | | 1 | LALSANGLIANI | | | | | No information on 1 |
| | | | KHAWLHRING | 5 | NIL | 2 | 2 | mentee |
| | | 2 | LALSANGKIMI | 6 | NIL | NIL | 4 | 2 mentees left |
| | | | HMAR | 0 | • | 4 | 4 | |
| | | 3 | LALHMINGLIANI | 8 | 6 | 1 | 1 | |
| 1 | | 4 | HLONDO VANLALLAWMI | 6 | 1 | 3 | 2 | |
| _ | | 5 | LALTHANPUII RALTE | 6 | 5 | NIL | 1 | |
| | E | 6 | C. LALRAMDINA | 6 | 3 | 3 | NIL | |
| | Ē | 7 | MARIA | 6 | 4 | 1 | 1 | |
| | SC | | LALHMINGMAWII | | | | | |
| | HOME SCIENCE | 8 | LALRAMMAWII | 7 | ? | 2 | 2 | No information of 3 |
| | 오 | | | | | | | mentees residence |
| | | 9 | LALRINNGHETI | 9 | 8 | 1 | NIL | |
| | | | RALTE | _ | | _ | _ | |
| | | 10 | MIMI | 7 | NIL | 4 | 2 | No information on 1 |
| | | 11 | LALMUANAWMI REBECCA | 6 | 5 | 1 | NIL | mentee |
| | | 11 | LALNUNTLUANGI | 0 | 5 | 1 | INIL | |
| | | 12 | ZARZOKIMI | 8 | 1 | 3 | 1 | No information on 1 |
| | | | Z/ (NZOKIIVII | J | - | | - | mentee |
| | | 1 | DR. ARUP KUMAR | 17 | 6 | 9 | 2 | |
| | | 2 | DR. ROSANGLIANA | 7 | NIL | 1 | 3 | 3 Mentees left, 1- no |
| 2 | | | | | | | | information |
| | S | 3 | M.I. SINGH | 5 | 4 | 1 | NIL | |
| | PHYSICS | 4 | REMLALSIAMA | 10 | ? | ? | ? | Status of residence not |
| | PH | | | | | _ | | given, 1- drop out |
| | | 5 | LAWRENCE | 10 | NIL | 6 | NIL | 4-MENTEES LEFT (2- |
| | | | ZONUNMAWIA | | | | | ENGINEER, 1- NURSING, 1- |
| | | | | | | | | UNKNOWN) |
| | | 1 | C. ZORAMTHARA | 11 | 7 | 4 | NIL | GIVINIVO VVIV) |
| 3 | | | | | | 4 | | |
| | λĐ(| 2 | DR. C. LALMUANKIMI | 6 | 1 | 4 | 1 | |
| | GEOLOGY | 3 | LALTIANKIMA | 7 | 3 | 3 | 1 | |
| | GEC | <u> </u> | LALILANNINA | , | J | 3 | 1 | |
| | | 4 | C. | 5 | 1 | 4 | NIL | |
| | | | LALREMRUATFELA | | | | | |

| | | 1 | LALTLUANGKIMI | 16 | 6 | 6 | 2 | 2 LEFT |
|---|-------------|---|---------------------|----------|-----|-----|-----|-------------------------|
| 4 | | _ | HNAMTE | 10 | | O | _ | Z LLI I |
| | _ | 2 | LALRINSANGI | 16 | 5 | 5 | 1 | 5 MENTEES LEFT (1- |
| | ENGLISH | _ | NGHINGLOVA | | | _ | | NAVY, 2-COLLEGE, 1 |
| | 19 | | | | | | | DID NOT COME, 1- |
| | ы | | | | | | | POOR ATTENDANCE) |
| | | 3 | LALMALSAWMI | 16 | 7 | 5 | 1 | 3 LEFT (1-ENGINEER, 2- |
| | | | | | | | | DID NOT COME) |
| 5 | | 1 | DR. R. | | | | | |
| | | | LALENGMAWIA | 9 | 4 | 3 | 2 | |
| | - | 2 | DR SKARIAH P.C. | 17 | 6 | 10 | 1 | |
| | | 3 | ZODINPUII | 11 | 3 | 6 | 1 | I MENTEES |
| | | | | | | | | INFORMATION NOT |
| | | | | | | | | OBTAINED |
| | Ź | 4 | LALTLANCHHUNGI | 18 | 7 | 8 | 3 | |
| | BOTANY | 5 | LALRINTLUANGI | 7 | 4 | 1 | 1 | 1 LEFT (JOINED ARMY) |
| | ã | 6 | MARY | 11 | 5 | 2 | 3 | 1 LEFT (MARRIED) |
| | - | 7 | LALTHANSANGI | 12 | 2 | | 2 | 21555 |
| | | / | LALREMRUATI HMAR | 13 | 3 | 6 | | 2 LEFT |
| | | 8 | LALNUNTHARA | 9 | 4 | 2 | 1 | 2 MENTEES |
| | | J | LALIVOIVIIIANA | J | - | ۷. | _ | INFORMATION NOT |
| | | | | | | | | KNOWN |
| 6 | | 1 | PROF. B. ZOLIANA | 6 | NIL | 5 | 1 | |
| | | 2 | DR. RICKY | 8 | 4 | 2 | 2 | |
| | 2 | | LALHMANGAIHZUAL | | | | | |
| | ő | | Α | | | | | |
| | ELECTRONICS | 3 | DR. P.C. | 7 | 1 | 2 | 4 | |
| | EE | | ROHMINGLIANA | | | | | |
| | | 4 | JONATHAN | 6 | 4 | 2 | NIL | |
| | | | LALRINMAWIA | | | | _ | |
| 7 | ွှ | 1 | L.B. SINGH | 5 | 1 | 3 | 1 | 4.1 |
| | MATHEMATICS | 2 | PARIJAT KUMAR | 21 | 2 | 15 | 3 | 1 LEFT |
| | ΔM | 3 | DR. LALAWMPUII | 6 | 1 | NIL | NIL | 5 LEFT (1-MARRIED,4- |
| | 모 | 4 | DR. | 8 | 3 | 4 | 1 | NOT KNOWN) |
| | JAT | 4 | LALHMANGAIHZUAL | ٥ | 3 | 4 | 1 | |
| | 2 | | A | | | | | |
| 8 | | 1 | LALHMINGLIANA | 9 | 2 | 4 | 1 | 2 LEFT |
| | | _ | HNAMTE | J | | • | _ | 2 221 1 |
| | _ | 2 | ZONUNTHARI | 20 | 3 | 14 | 3 | |
| | TR | 3 | DR. K.B. SINGH | 10 | 4 | 5 | NIL | 1 MENTEE |
| | MIS | | | | | | | INFORMATION NOT |
| | CHEMISTRY | | | | | | | OBTAINED |
| | ō | 4 | DR. LALSAIMAWIA | 11 | 4 | 6 | 1 | |
| | | | SAILO | | | | | |
| | | 5 | ROHLUPUII | 10 | 4 | 5 | 1 | |

| 9 | ш | 1 | LALHRUAITLUANG | 6 | 2 | 4 | NIL | NIL |
|----|--------------|---|-----------------|----|---|---|-----|-----|
| | SCIENCE | 2 | C. LALRINAWMA | 7 | 4 | 3 | NIL | NIL |
| | CIE | 3 | LALDINGLIANA | 10 | 3 | 7 | NIL | NIL |
| | | | SAILO | | | | | |
| | COMPUTER | 4 | R.LALMAWIPUII | 9 | 2 | 4 | 3 | NIL |
| | ΛΡι | 5 | LALHMUNMAWII | 10 | 2 | 8 | NIL | NIL |
| | O. | 6 | H.THANGKHANHAU | 9 | 4 | 4 | 1 | NIL |
| | 0 | 7 | VANLALLURA | 8 | 5 | 3 | NIL | NIL |
| 10 | | 1 | CAROLINE | 8 | 4 | 2 | 2 | NIL |
| | | | ZAIHMINGTHANGI | | | | | |
| | λĘ | 2 | DR. LALZAHAWMI | 14 | 6 | 8 | NIL | NIL |
| | 00 | | CHENKUAL | | | | | |
| | ZOOLOGY | 3 | H.LALNUNSANGI | 14 | 7 | 4 | 3 | NIL |
| | 20 | 4 | S. THANGRIMAWII | 11 | 7 | 2 | 2 | NIL |
| | | 5 | SAILOPUII | 11 | 5 | 5 | 1 | NIL |
| | | 6 | LALRINMAWIA | 14 | 4 | 6 | 4 | NIL |
| 11 | ≿ : | 1 | K.ZOSANGPUII | 12 | 4 | 6 | 1 | NIL |
| | STR | 2 | LALAWMPUII | 13 | 2 | 7 | 3 | NIL |
| | Σ | | | | | | | |
| | BIOCHEMISTRY | | | | | | | |
| | 0 | | | | | | | |
| | В | | | | | | | |

5. STUDENTS MENTORING SYSTEM ODD SEMESTER

| | | Fa | culty (Mentor) | No. of | Students | Why is | | |
|------------|--------------|------------|------------------------------|--|---|------------------------------------|---|------------------------|
| SI. No. | Department | SI. No. | Name | Mentees reported as on JULY 2017 | less of 75% attendance upto 2nd internal | deficient in attendan ce? | Perfromane in the last test, passed or failed? | Follow up of Mentor |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 |
| | | 1 | LALSANGLIANI KHAWLHRING | 5 | 1 | Negligen ce | at least appear once | Follow up given |
| | | 2 | LALSANGKIMI HMAR | 2 | Nil | | at least appear once | Follow up not given |
| | | 3 | LALHMINGLIANI HLONDO | 2 | Nil | | Appeared all | Follow up given |
| | | 4 | VANLALLAWMI | 6 | Nil | | Appeared all | Follow up not given |
| | | 5 | LALTHANPUII RALTE | 2 | 1 | Family problem | at least appear once | Follow up not given |
| | | 6 | C. LALRAMDINA | 6 | 2 | 1 left | at least appear once | Follow up not given |
| 1 | HOME SCIENCE | 7 | MARIA LALHMINGMAW II | 4 | Nil | | Appeared all | Follow up not given |
| 1 | IOME S | 8 | LALRAMMAWII | 3 | Nil | | at least appear once | Follow up not given |
| | Τ. | 9 | LALRINNGHETI RALTE | 4 | 1 | student not cooperati ng | at least appear once | Follow up given |
| | | 10 | MIMI LALMUANAWMI | 4 | Nil | | at least appear once | Performance OK |
| | | 11 | REBECCA LALNUNTLUANG I | 3 | 1 | 1 left | at least appear once | Follow up not given |
| | | 12 | ZARZOKIMI | 5 | 2 left | | at least appear once | Follow up mentioned |

| | PHYSICS | 1 | DR. ARUP KUMAR | 11 | 4 | not mention ed | Appeared all | Follow up mentioned |
|---|---------|---|---------------------------|----|-----|----------------------|---------------------------------------|------------------------------------|
| 2 | | 2 | DR. ROSANGLIANA | 7 | 3 | 3 left | 3 left, 2 did not appear in all | No follow up mentioned |
| | PHY | 3 | M.I. SINGH | 7 | 1 | | 1 | Follow Up not given |
| | | 4 | REMLALSIAMA | 12 | 3 | 2 left | good attendance | Follow up given |
| | | 5 | LAWRENCE ZONUNMAWIA | 12 | 2 | not mention ed | at least appear once | Follow up given |
| | | 1 | C. ZORAMTHARA | 7 | 1 | | at least appear once | Faced probs in maths |
| | GEOLOGY | 2 | DR. C. LALMUANKIMI | 4 | 1 | Illness | at least appear once | No follow up mentioned |
| 3 | | 3 | LALTLANKIMA | 7 | Nil | | at least appear once | Follow up given |
| | | 4 | C. LALREMRUAT FELA | 12 | Nil | | at least appear once | Students face probs in maths |
| | ENGLISH | 1 | LALTLUANGKIMI HNAMTE | 5 | 1 | Medical | at least appear once | Follow up given |
| 4 | | 2 | LALRINSANGI NGHINGLOVA | 4 | 1 | Negligen ce | 2 did not appear | Follow up given |
| | | 3 | LALMALSAWMI | 5 | Nil | | 1 did not appear | Follow up given |
| | | 1 | DR. R. LALENGMAWIA | 11 | 2 | Illness | at least appear once | Follow up given |
| | | 2 | DR SKARIAH P.C. | 9 | Nil | | at least appear once | Follow up given |
| | Ϋ́ | 3 | ZODINPUII | 14 | 2 | 1 Left | at least appear once | Follow up given |
| 5 | BOTANY | 4 | LALTLANCHHUN GI | 8 | Nil | | at least appear once | Follow up given |
| | | 5 | LALRINTLUANGI | 14 | Nil | | at least appear once | Follow up given |
| | | 6 | MARY LALTHANSANGI | 14 | 3 | 1 illness | at least appear once | Improved in attendance, follow up |

| | | 7 | LALREMRUATI HMAR | 8 | 2 | Negligen | 2 students absent in all | Follow up |
|---|------------------|---|-----------------------------------|----|-----|-----------------|---------------------------------------|-----------------------------|
| | | 8 | LALNUNTHARA | 8 | Nil | ce | At least appear once | given Follow up given |
| | | 1 | DR. LALHMINGLIAN A HNAMTE | 17 | 1 | Expelled | at least appear once | Follow up not given |
| | ТRУ | 2 | ZONUNTHARI | 10 | 1 | Negligen ce | at least appear once | Follow up Ok |
| 6 | CHEMISTRY | 3 | DR. K.B. SINGH | 14 | 3 | | Poor marks in internals | Follow up mentioned |
| | Н | 4 | DR. LALSAIMAWIA SAILO | 10 | 2 | no mention | at least appear once | follow up given |
| | | 5 | R. LALRAMENG ZAMI | 7 | 1 | | 1 student absent in all | No follow up mentioned |
| | ELELCTRONICS | 1 | PROF. B. ZOLIANA | 7 | 1 | Negligen ce | 1 student absent in all | Follow up mentioned |
| 7 | | 2 | DR. RICKY LALHMANGAIHZ UALA | 11 | 3 | Negligen ce | at least appear once | Follow up given |
| | | 3 | DR. P.C. ROHMINGLIANA | 10 | 2 | 1 left | 1 student absent in all | Follow up given |
| | | 4 | JONATHAN LALRINMAWIA | 7 | Nil | | at least appear once | Follow up given |
| | | 1 | L.B. SINGH | 10 | Nil | | at least appear once | Follow up given |
| | CS | 2 | PARIJAT KUMAR | 9 | 2 | Both Illness | at least appear once | Follow up given |
| 8 | EMATICS | 3 | DR. LALAWMPUII | 9 | 1 | No interest | marks poor in internal | Follow up given |
| | MATH | 4 | DR. LALHMANGAIHZ UALA | 10 | Nil | | All students appear in both | Follow up given |
| | | 5 | C. LALNGAIH AWMA | 7 | Nil | | at least appear once | Follow up not given |
| | ENCE | 1 | M.S.DAWNGLIA NI | 10 | Nil | | 2 did not appear in all | Follow up given |
| 9 | ER SCI | 2 | LALHRUAITLUA NGA | 10 | Nil | | at least appear once | Follow up given |
| | COMPUTER SCIENCE | 3 | C. LALRINAWMA | 11 | 1 | Negligen ce | 1 did not appear in 2 internals | Follow up given |

| | | 4 | LALDINGLIANA SAILO | 11 | 3 | 1 left | 3 did not appear in all | Follow up given |
|----|--------------|---|-------------------------------|----|-----|----------------------|-------------------------|--------------------|
| | | 5 | R.LALMAWIPUII | 10 | 2 | negligenc e | 1 did not appear in all | Follow up given |
| | | 6 | LALHMUNMAWI I | 9 | 3 | not mention ed | at least appear once | Follow up given |
| | | 7 | H.THANGKHAN HAU | 9 | 2 | 1 Left | 1 absent in 2 internals | Follow up given |
| | | 8 | VANLALLURA | 10 | 3 | Negligen ce | 1 absent in 2 internals | Follow up given |
| | | 1 | CAROLINE ZAI HMINGTHANGI | 10 | 1 | health problem | at least appear once | Follow up given |
| | ZOOLOGY | 2 | DR. LALZAHAWMI CHENKUAL | 17 | 1 | Illness | 1 student abent in both | Follow up given |
| 10 | | 3 | H.LALNUNSANG I | 16 | Nil | | at least appear once | Follow up given |
| | | 4 | S. THANGRIMAWII | 9 | Nil | | at least appear once | No follow up given |
| | | 5 | SAILOPUII | 14 | 2 | 1 left | at least appear once | Follow up given |
| | | 6 | LALRINMAWIA | 14 | 3 | 1 health problem | at least appear once | Follow up given |
| | STRY | 1 | DR. LALSANGLUAII FANAI | 12 | 3 | 3 left | at least appear once | Follow up given |
| 11 | BIOCHEMISTRY | 2 | LALROSANGPUII | 14 | 3 | 4 left | at least appear once | Follow up given |
| | BIO | 3 | K.ZOSANGPUII | 13 | 2 | 5 left | at least appear once | Follow up given |

6. UNIVERSITIES RANK HOLDER FOR THE CURRENT YEAR 2017

| SI. | Roll No | Names | Department | Class | Position |
|-----|------------|------------------------------|-------------|-----------------|----------|
| No | | | | | |
| 1. | 1407BS147 | Samuel Lalchhanhima | Physics | 1 st | 1 |
| 2. | 1407BS106 | Eliazer F. Lalfakmawia | Physics | 1 st | 8 |
| 3. | 1407BS105 | Zoremsiami | Physics | 1 st | 8 |
| 4. | 1407BS099 | Wycliff Lalchhandama | Physics | 1 st | 10 |
| 5. | 1407BS091 | K. Lalruatmawii | Chemistry | 1 st | 6 |
| 6. | 1407BS130 | C. Zorammawia | Mathematics | 1 st | 2 |
| 7. | 1407BS132 | Lallungkhama | Mathematics | 1 st | 4 |
| 8. | 1407BS138 | Lallianmawii | Mathematics | 1 st | 7 |
| 9. | 1407BS003 | H. Lalchhuanawma | Zoology | 1 st | 9 |
| 10. | 1407BS061 | Lucy Lalmuanpuii | Zoology | 1 st | 10 |
| 11. | 1407BS008 | Lalhlimpuii | Botany | 1 st | 6 |
| 12. | 1407BS014 | Lalsiamchhungi | Botany | 1 st | 7 |
| 13. | 1407BS062 | PC Vanlalhruaii | Botany | 1 st | 8 |
| 14. | 1407BS112 | J. Lalramnghahmawii Chhangte | Geology | 1 st | 10 |
| 15. | 1407BH020 | Zothanpuii Pautu | Home Sc. | 1 st | 1 |
| 16. | 1407BH001 | Vanlalzawni | Home Sc. | 1 st | 2 |
| 17. | 1407BH030 | K. Lalbiakzuali | Home Sc. | 1 st | 3 |
| 18. | 1407BH028 | Lalremruati Sailo | Home Sc. | 1 st | 4 |
| 19. | 1407BCA144 | Lalremtluang Pautu | Comp. Sc. | Dist. | 2 |
| 20. | 1407BCA156 | Robert Lalthianghlima | Comp. Sc. | 1 st | 4 |
| 21. | 1407BCA148 | Mukesh Kumar Ram | Comp. Sc. | 1 st | 6 |
| 22. | 1407BCA155 | Malsawmzuala | Comp. Sc. | 1 st | 7 |
| 23. | 1407BCA157 | Lalhriatpuia | Comp. Sc. | 1 st | 8 |

ABSTRACT OF THE FINAL YEAR B.Sc, B.Sc (HOME SCIENCE), BCA 2017

| | | | App | eare | TT | Dis | tinc | 1 | st | 2 ^r | nd | Total | |
|-----|----------------|-------|-----|------|-----|-----|------|-----|-----|----------------|----|---------------|--------|
| SI. | Class | Hons | d | | | tio | on | Cla | ass | Cla | SS | Total Pass | Pass % |
| No | | | М | F | | М | F | М | F | М | F | Pass | |
| | | Bot. | 16 | 19 | 35 | 7 | 12 | - | - | - | - | 19 | 54.28 |
| | | Zoo. | 7 | 16 | 23 | 3 | 9 | - | - | - | - | 12 | 52.17 |
| 1. | VI SEM. B.Sc | Chem. | 10 | 9 | 19 | | 1 | - | 1 | - | - | 2 | 10.52 |
| | | Phy. | 12 | 5 | 17 | 4 | 1 | 1 | 1 | - | - | 7 | 41.17 |
| | | Maths | 13 | 6 | 19 | 3 | 1 | 4 | 3 | - | - | 11 | 59.89 |
| 2. | | Geo. | 8 | 3 | 11 | 1 | 3 | - | - | | - | 4 | 36.36 |
| | VI SEM. B.SC | | | 24 | 24 | | 7 | | 1 | | | 8 | 33.33 |
| | (HOME SCIENCE) | | - | 24 | 24 | - | , | - | T | _ | - | 0 | 55.55 |
| 3. | VI SEM. BCA | | 18 | 1 | 19 | 8 | | 3 | 1 | - | - | 12 | 63.16 |
| | TOTAL | | 84 | 83 | 167 | 26 | 34 | 8 | 7 | | | 75 | |

7. RESEARCH AND PUBLICATION DURING 2017

I. INTERNATIONAL JOURNAL

| SI. No. | Name of Author | Title of Publication | Journals |
|------------|----------------------------|---|---|
| 1. | Dr. Ricky Lalhmangaihzuala | Structural, Electronic and optical properties of Wurtzite and Zinc Blende InN with GGA and mBJ Potential | International Journal of Advanced Research and Review (IJARR), 2(10), 01 – 11. |
| 2. | C. Zoramthara | Remarkable preservation of terpenoids and record of volatile signaling in plantanimal interactions from Miocene amber | Scientific Reports, 7:10940, 1 – 6. |
| 3. | Dr. Lalsaimawia Sailo | Efficient oxidative removal of 4-tert-octylphenol and 17α- ethynylestradiol from aqueous solutions using ferrate(VI) | Korean J. Chem. Eng., 34(3), 734-740. pISSN: 0256-1115 |
| Э. | Dr. Laisannawia Sano | Degradation of some micro- pollutants from aqueous solutions using ferrate (VI): Physico-chemical studies | |

II. NATIONAL JOURNAL

| SI. No. | Name of Author | Title of Publication | Journals |
|------------|---------------------------------|--|--|
| | | Measurement of Gamma Radiation Dose and its Correlation with Radon Concentration in Southern Part of Mizoram, India. | Science & Technology for shaping the future of Mizoram, 295 – 298. ISBN 978-93-85926-49-5. |
| 1. | Prof. B. Zoliana | Seasonal Variation of Indoor Radon Concentrations in Dwellings in Eastern Part of Mizoram. | Science & Technology for shaping the future of Mizoram, 311 – 313. ISBN 978-93-85926-49-5. |
| | | A Theoretical Formulation of Initial State Wave Functions for Photoemission Calculations | Summary of Doctoral Theses, Eastern Publishers, Vol-2, 165 – 174. ISBN 978- 93-86302-22-9. |
| 2. | Dr. Arup Kumar | Probing Deeper into X-Ray Bursting Neutron Stars from Its Surface Emission with Data from ASTROSAT | Science & Technology for shaping the future of Mizoram, 299 – 304. ISBN 978-93-85926-49-5. |
| 3. | Dr. Lalzahawmi Chenkual | Seasonal Variation in Water Quality Attributes of Tamdil, Mizoram India. | Science & Technology for shaping the future of Mizoram, 169 – 174. ISBN 978-93-85926-49-5. |
| 4. | Dr. Lalhmingliana Hnamte | Computational Study of Greener Pathway for the Synthesis of 2-Ethylaniline and 4-Ethylaniline from N- Ethylaniline in the Presence of HCl under Gas Phase. | Science & Technology for shaping the future of Mizoram, 127 – 142. ISBN 978-93-85926-49-5. |
| 5. | Lawrence Zonunmawia Chhangte | Measurement of Gamma Radiation Dose and its Correlation with Radon Concentration in Southern Part of Mizoram, India. | Science & Technology for shaping the future of Mizoram, 295 – 298. ISBN 978-93-85926-49-5. |
| 6. | Dr. Ricky Lalhmangaihzuala | Structural, Electronic and optical properties of Wurtzite and Zinc Blende InN with GGA and mBJ Potential Effects of Spin Orbit interaction | International Journal of Advanced Research and Review (IJARR), 2(10), 01 – 11. Summary of Doctoral |
| | | on Band Structure in | Theses, Eastern Publishers, |

| | | Semiconductor Spintronic Materials. | Vol-2, 153 – 164. ISBN 978- 93-86302-22-9 . |
|----|----------------------|--|--|
| | | Measurement of Gamma Radiation Dose and its Correlation with Radon Concentration in Southern Part of Mizoram, India. | Science & Technology for shaping the future of Mizoram, 295 – 298. ISBN 978-93-85926-49-5. |
| 7. | Dr. PC. Rohmingliana | Seasonal Variation of Indoor Radon Concentrations in Dwellings in Eastern Part of Mizoram. | Science & Technology for shaping the future of Mizoram, 311 – 313. ISBN 978-93-85926-49-5. |
| | | Indoor and Outdoor Radon and Thoron Monitoring in Mizoram With Special Reference to Lunglei, Serchhip and Mamit Districts. | Summary of Doctoral Theses, Eastern Publishers, Vol-2, 175 – 190. ISBN 978- 93-86302-22-9. |
| | | Investigations of Public Dose Due to Stray Radiation in X-Ray Installations in Mizoram. | Science & Technology for shaping the future of Mizoram, 305 – 309. ISBN 978-93-85926-49-5. |
| 8. | Jonathan Lalrinmawia | Investigations of Workers Dose Due to Stray Radiation in X-Ray Installations in Mizoram. | Recent Advances in Physics Research and its relevance, Excel India Publishers, New Delhi, 258–263. ISBN 978- 93-86256-85-0. |
| 9. | Laltlankima | Physico-chemical characterization of potable water in Aizawl. | Solid Waste Management and Safe Drinking Water in Context of Mizoram and other States in India, 33 – 37. ISBN: 978-1-61813- 473-8 |
| Э. | Laitidiikiiiid | Assemic contamination in potable water of Chawngte, Lawngtlai District. | Solid Waste Management and Safe Drinking Water in Context of Mizoram and other States in India, 38 – 45. ISBN: 978-1-61813- 473-8 |

ABSTRACT OF RESEARCH PAPERS PUBLISHED DURING 2017

I. INTERNATIONAL JOURNAL

IJARR, 2(10), 2017; 01-11



International Journal of Advanced Research and Review

www.ijarr.in

STRUCTURAL, ELECTRONIC AND OPTICAL PROPERTIES OF WURTZITE AND ZINC BLENDE INN WITH GGA AND mBJ POTENTIAL

Lalrintluanga Sailo^{1*}, Ricky L. Ralte², Z. Pachuau³, C. Lalramliana⁴

ABSTRACT

To obtainthe parameters of InN semiconductor compound in wurtzite (WZ) and zincblende (ZB) structures, we have carried out a first-principle total-energy calculation of the structural, electronic and optical properties for WZ and ZB InN semiconductor with density functional theory with Generalized Gradient Approximations (GGA) and modified Becke–Johnson (mBJ) potential. To find the best parameters for each structure, we have optimized the total energy as a function of the unit cell volume and the c/a ratio for the wurtzite structure and for zincblende structure, the total energy as a function of the unit cell volume and the lattice parameter. Our calculations have shown agreement with the other theoretical and experimental results. The electronic band structures were calculated from the optimized lattice parameter with GGA and mBJ potential using Full Potential Linearized Augmented Plane Wave (FP-LAPW) method. The optical properties, including the real and imaginary part of dielectric function, reflectivity, refractive index, absorption coefficient, electron energy loss function and optical conductivity of WZ and ZB InN semiconductor under ambient conditions are discussed.

Keywords: DFT; FP-LAPW; structure optimization; optical properties; mBJ-GGA.

¹Research Scholar, Department of Physics, Mizoram University, Aizawl, India

²Assistant Professor, Department of Electronics, Govt. Zirtiri Residential Science College, Aizawl, India

³Professor, Department of Physics, Mizoram University, Aizawl, India

⁴Assistant Professor, Department of Mathematics, Govt. Serchhip College, Serchhip, India

^{*}Corresponding Author: Department of Physics, Mizoram University, Aizawl, India. Pin: 796004. Email:lalrinasailo@gmail.com



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OPEN Remarkable preservation of terpenoids and record of volatile signalling in plant-animal interactions from Miocene amber

Suryendu Dutta¹, Rakesh C. Mehrotra², Swagata Paul¹, R. P. Tiwari^{3,4}, Sharmila Bhattacharya¹, Gaurav Srivastava², V. Z. Ralte³ & C. Zoramthara³

Plants produce and release a large array of volatile organic compounds that play many ecological functions. These volatile plant metabolites serve as pollinator attractants, herbivore and pathogen repellents and protect plants from abiotic stresses. To date, the geological evolution of these organic compounds remains unknown. The preservation potential of these metabolites in the fossil record is very poor due to their low boiling points. Here we report a series of volatile sesquiterpenoids, including δ -elemene, α -copaene, β -elemene, β -caryophyllene, α -humulene, germacrene D, δ -cadiene and spathunenol, from early Miocene (~17 million year) amber from eastern India. The survival of these unaltered bioterpenoids can be attributed to the existence of extraordinary taphonomic conditions conducive to the preservation of volatile biomolecules through deep time. Furthermore, the occurrence of these volatiles in the early Miocene amber suggests that the plants from this period had evolved metabolic pathways to synthesize these organic molecules to play an active role in forest ecology, especially in plant-animal interactions.

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Efficient oxidative removal of 4-tert-octylphenol and 17α -ethynylestradiol

from aqueous solutions using ferrate(VI)

Diwakar Tiwari*, Lalsaimawia Sailo*, Sang-Il Choi**, Yi-Yong Yoon***, and Seung-Mok Lee***.†

*Department of Chemistry, School of Physical Sciences, Mizoram University, Aizawl-796004, India

**Department of Environmental Engineering, Kwangwoon University, Seoul 01897, Korea

***Department of Health and the Environment, Catholic Kwandong University,

522 Naegok-dong, Gangneung, Gangwondo 25601, Korea

Abstract: Ferrate(VI) was utilized to treat micro-pollutants--4-tert-octylphenol (TOP) and 17α-ethynylestradiol (EE2)--from aqueous solutions. Batch studies were conducted at various pHs (7.0 to 12.0) and concentrations of TOP/or EE2 (0.03 to 0.3mmol/L) using 0.1mmol/L ferrate(VI). Time-dependent degradation of TOP and EE2 was assessed as a function of pH and micro-pollutant concentrations and we found that significant mineralization of micro-pollutants was achieved by ferrate(VI) treatment. Second-order kinetics showed 1 : 1 stoichiometry was obtained between the ferrate(VI) and TOP/or EE2. Further, the effect of several background electrolytes on degradation of TOP and EE2 by ferrate(VI) was evaluated, showing insignificant effect of degradation.

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Degradation of some micro-pollutants from aqueous solutions using ferrate (VI): Physicochemical studies

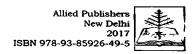
Lalsaimawia Sailoa, Diwakar Tiwaria, and Seung-Mok Leeb

aDepartment of Chemistry, School of Physical Sciences, Mizoram University, Aizawl, India; bDepartment of Health and Environment, Catholic Kwandong University, Gangneung, Korea

Abstract: The aim of this communication is to investigate various physico-chemical parametric studies in the oxidative degradation of bisphenol A (BPA) and diclofenac (DCF) in aqueous solutions using the ferrate (VI). A wide range of pH (7.0–12.0) and concentrations of BPA/or DCF (0.03–0.5 mmol/L) is studied at a constant concentration of ferrate (VI) 0.1 mmol/L. Apparent rate constant was found to be 8.35 × 10²and 7.62 × 10²L/mol/min, respectively, for BPA and DCF degradation bythe ferrate (VI). Further, decreasing the pH from 12.0 to 7.0, the corresponding increase is percentage degradation of BPA and DCF is found to be from 23 to 87% for BPA and from 14 to 41% for DCF, respectively, at the ferrate (VI) to micro-pollutant molar ratio 1:1. Total organic carbon data showed that partial mineralization of BPA/or DCF is achieved at a single operation of ferrate (VI) treatment. Moreover, decreasing the micro-pollutant concentration from 0.5 to 0.03 mmol/L has caused to increase the percentage TOC removal from 15 to 45% (for BPA) and from 10 to 38% (for DCF), respectively, at pH 7.0. The presence of NaCl, NaNO₃, and Na₂HPO₄electrolytes could not affect significantly the oxidation of BPA and DCF by ferrate (VI). However, the presence of NaNO₂and Na₂SO₃co-existing ions hampered significantly the degradation of BPA and DCF using ferrate (VI).

II. NATIONAL JOURNAL

Science and Technology for Shaping the Future of Mizoram



Chapter 24

Computational Study of Greener Pathway for the Synthesis of 2-Ethylaniline and 4-Ethylaniline from N-Ethylaniline in the Presence of HCl under Gas Phase

Lalhmingliana Hnamte^{1,2} and Zodinpuia Pachuau²

- Department of Chemistry, Government Zirtiri Residential Science College, Aizawl-796007, India
- ²Department of Chemistry, Mizoram University, Aizawl-796004, India
- *E-mail: lhnamte7@gmail.com

ABSTRACT: The objective of the computational calculation is to find greener pathway and to investigate for the synthesis of 2-ethylaniline and 4-ethylaniline from N-ethylaniline in the presence of HCl under gas phase. Mechanistic pathways are proposed for the synthesis to investigate the most suitable synthesis pathway. Which are investigated computationally using Gaussian software which search for the feasibility of the proposed mechanistic pathways from which the best method for the synthesis is selected. It also probe in to the usage of the by-products for the synthesis to eliminate the wastage. Computational calculation is done using Density Functional Method with B3LYP unrestricted 6-311++G (d, p) basis set. Computationally is it proved that the initial stage of the reaction is most feasible as proposed in the literature and that the second stage of the reaction proceeds best when aniline reacts with ethene, which the experimentalists' ignore, than with chloroethane by the electrophilic substitution reaction.

Keywords: Gaussian, Density Functional Theory, Intrinsic Reaction Coordinate (IRC), Computational and Synthesis.

Science and Technology for Shaping the Future of Mizoram



Chapter 29

Seasonal Variation in Water Quality Attributes of Tamdil, Mizoram, India

Lalzahawmi Chenkual and B.P. Mishra

Department of Environmental Science, Mizoram University, Aizawl-796 014, India

*E-mail: chenkualawmi@gmail.com

ABSTRACT: This paper is intended to be a study concerning the water quality attributes of Tamdil, Mizoram, India, at monthly intervals for a period of two years, i.e. March, 2014 to February, 2016. The results are computed on seasonal basis i.e. pre-monsoon, monsoon, post-monsoon and winter seasons. It was found that temperature ranged from 12°-29°C; turbidity from 5.6-24.3 NTU; total alkalinity ranged from 26 to 76 mgL⁻¹ CaCO₃, total hardness ranged from 24 to 70 mgL⁻¹ CaCO₃; dissolved oxygen ranged from 3.99 to 7.9 mgL⁻¹ and biological oxygen demand value ranged from 0.06 to 1.85 mgL⁻¹. The results reveal that there is a significant seasonal variation in all the parameters and all the parameters are within the prescribed limits of water quality laid down by various scientific agencies, except turbidity. The data were subjected to correlation coefficient among different variables using two tailed test at 5% level of significance using SPSS version 16.0.

Keywords: Water Quality Attributes, Turbidity, Total Alkalinity, Total Hardness, Dissolved Oxygen, Biological Oxygen Demand, and Water Quality Standards.



Chapter 50

Measurement of Gamma Radiation Dose and its Correlation with Radon Concentration in Southern Part of Mizoram, India

L.Z. Chhangte¹, Z. Pachuau¹, P.C. Rohmingliana², B. Zoliana²*, B.K. Sahoo³ and B.K. Sapra³

- ¹ Department of Physics, Mizoram University, Aizawl, India
- ² Department of Electronics, Zirtiri Residential Science College, Aizawl, Mizoram, India
- ³ Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai, India
- *E-mail: bzoliana@gmail.com

ABSTRACT: This study presents the results of indoor and outdoor ambient gamma dose rates in and around dwellings in Lawngtlai, Saiha and apart of Lunglei districts in southern Mizoram, and these measurements were carried out by using Micro-R Survey Meter, which is a portable detector having a gate time of 8 seconds. The background gamma radiation measurements were carried out on the ground and at one meter above the ground in order to determine the source of radiation, whether it is terrestrial or of cosmic origin. Seasonal measurements for rainy, winter and summer seasons were also performed in order to determine the effects of meteorological factors. The measured gamma radiation dose ranges from 4–13 μ R/h while the nationwide gamma survey result is 10.05 μ R/h. The indoor and outdoor gamma readings had no significant difference but in each case measurement on the ground has a slightly higher value than that of measurement at 1m above the ground. This shows that the background gamma radiation is mainly of the terrestrial origin. It has also been found that there is a slight seasonal variation in gamma readings to indicate the influence of meteorological parameters as expected. Moreover, there has been a good correlations observed between gamma value and radon concentration measured inside the dwellings.

Keywords: Survey Meter, Cosmic and Terrestrial Gamma Radiation, Radon Concentration, Correlation, Meteorological Parameters.

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Chapter 51

Probing Deeper into X-Ray Bursting Neutron Stars from Its Surface Emission with Data from ASTROSAT

Arup Kumar

Department of Physics, Government Zirtiri Residential Science College, Aizawl, Mizoram, India *E-mail: arupk08@gmail.com

ABSTRACT: Neutron Stars (NS) are the densest astrophysical objects with a physical boundary. These objects are born when a massive star undergoes a core collapse supernova explosion. The fundamental properties of any Neutron star is based on a close study of the emission spectrum emerging from their photospheres. Neutron stars in low-mass X-ray binaries show a plethora of spectral and timing properties, such as thermonuclear bursts, burst oscillations, KHz Quasi-periodic Oscillations (QPO) etc. which can be used to study fundamental problems, such as probing the strong gravity and dense core matter and understanding the accretion-ejection mechanisms. The most prominent candidates for such measurements are (thermonuclear) bursting neutron stars (X-ray Bursters or XRB) in low mass X-ray binary systems (LMXB) that present Photospheric Radius Expansion (PRE). We propose to observe the Neutron star 4U 1702-429 in LMXB to study a number of such properties. The observation is during its emission from the surface while it cools after thermonuclear bursts and it relies on the broadband X-ray spectral and fast timing capabilities of X-ray detectors SXT & LAXPC on board ASTROSAT, which is recently launched from India. We also present the prospect of measuring mass and radius of Neutron stars from the data obtained from ASTROSAT and their implications to constrain the equation of state of the cold dense matter in the core of Neutron stars. The core matter is accurately described by one-parameter equation of state that governs the dense matter above nuclear density. The Tolman-Oppenheimer-Volkov (TOV) relativistic stellar structure equation describes the extremely dense cold matter in their cores by relating pressure and energy density. There is a unique map between the microscopic pressure-density $(P \sim \rho)$ relation and the macroscopic mass-radius $(M \sim R)$ relation and the equations of states (EoS) are constrained if the neutron stars masses and radii are determined by astrophysical observational methods.

Keywords: Neutron Stars, LMXB, X-ray bursts, Equation of State, ASTROSAT.

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Chapter 52

Investigations of Public Dose Due to Stray Radiation in X-Ray Installations in Mizoram

Jonathan Lalrinmawia¹, Kham Suan Pau^{1,2} and Ramesh Chandra Tiwari*¹

Department of Physics, Mizoram University, Aizawl-796 004, Mizoram, India

ABSTRACT: X-rays are not only magnificent and useful in medicine, but dangerous too. In the present study, 67 diagnostic X-ray facilities installed in 48 institutions from 8 districts in Mizoram, have been considered. A water phantom is used as a source of scattered; field sizes are adjusted to maximum; exposure rates outside Patient Entrance Door (PED) were measured by setting maximum accelerating potential and minimum current with fixed time. The radiations scattered from the phantom, walls, floor and the ceiling as well as leakage radiation have been measured. Workload is calculated for each installation in mA min/week; public dose is calculated in mR/week from workload and stray radiation rates. Exposure rates outside PED in chest mission ranges from 0.001 to 200 mR/h and 0.02 to 185 mR/h in couch mission. Even though fixed X-ray units are able to be used at higher tube loadings than mobile X-ray units, it is found that the required radiation shielding has no essential difference. High exposure rates at public place can be significantly reduced by employing lead lined door and proper shielding as per safety regulation.

Keywords: Diagnostic X-ray, Scattered Radiation, Leakage Radiation, Patient Entrance Door.

Science and Technology for Shaping the Future of Mizoram



Chapter 53

Seasonal Variation of Indoor Radon Concentrations in Dwellings in Eastern Part of Mizoram

Lalmuanpuia Vanchhawng¹, P.C. Rohmingliana², B. Zoliana², R. Mishra³ and B.K. Sahoo³

Department of Physics, Pachhunga University College, Aizawl, Mizoram, India

ABSTRACT: Radon and its progeny concentrations contribute most of the natural radiation dose to general populations. This fact draws a considerable attention and hence, large scale and long-term measurement of radon concentrations has been going on. Radon present in indoor as well as outdoor air as they had been exhaled from soil and building materials. Radon levels in the indoor have been realized as a concern of public health in many countries and even in India. Consequently, studies related to monitoring of radon and the inhalation dose to the public living in that environment has been a keen interest. Measurement of radon concentrations was done over the past 50 years in many countries, but with the improvement of experimental apparatus and technical formulation, the same is going on till today. Subsequent decay products are formed in the air. It is well-known that in radon problem, the progeny species and not the radon are primarily responsible for lung doses. Among the progenies, short lived nuclei viz. ²¹⁴Po is focused due to its high contribution in deposition and emission of alpha particles inside the lung. Measurement of indoor Radon concentrations have been carried out in Eastern part of Mizoram covering Champhai District for a complete one year in 40 dwellings, which were specifically selected according to the site location of the dwellings. Seasonal variations of indoor radon concentrations were monitored for three seasons, viz., rainy, winter and summer seasons. Solid-State Nuclear Track Detectors (SSNTD) have been used to obtain the time integrated concentration levels of indoor radon. It has been found that the annual indoor concentrations of the radon in the study area is 50.6 Bq/m³. Indoor radon concentration reach its maximum during winter and the minimum concentration was found during summer season.

Keywords: Radon, SSNTD, Ventilation Rate.

²Mizoram State Cancer Institute, Zemabawk, Aizawl-796 017, Mizoram, India

^{*}E-mail: ramesh_mzu@rediffmail.com

²Department of Electronics, Govt. Zirtiri Residential Science College, Aizawl, Mizoram-796 001, India

Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai-400 094, India

^{*}E-mail: bzoliana@rediffmail.com

Investigations of Workers Dose Due to Stray Radiation in X-ray Installations in Mizoram

Jonathan Lalrinmawia¹, Kham Suan Pau² and Ramesh Chandra Tiwari³

1.3Department of Physics, Mizoram University, Aizawl-796004, Mizoram, India

²Mizoram State Cancer Institute, Zemabawk, Aizawl-796017, Mizoram, India

E-mail: ³ramesh mzu@rediffmail.com

Abstract—Stray radiation is the sum of all scattered radiation and leakage radiation. 85 diagnostic X-ray facilities installed in 48 institutions from 8 districts have been considered. Each installation is classified into barrier covering Control Panel (CP) properly, not covering CP properly and barrier not available. No worker used Personal Monitoring Device (PMD) for safety and that is why we follow the present method. Using water phantom as scatterer, exposure rates at CP are measured by setting maximum potential (kV) and minimum current (mA) with fixed time (s). Workload is calculated for each installation in mA.min/week; public dose is calculated in mR/week. Installations without barrier but showing low exposure rates are having kV reproducibility problem and the main reason for low workers dose is low workload in different installations. The highest worker dose is 18.9mR/week as compared to AERB Safety Code which is 40mR/week all installations are within safety limit.

Keywords: Diagnostic X-ray, Scattered Radiation, Leakage Radiation, Control Panel

INTRODUCTION

In November 1895 W.C. Roentgen discovered x rays. Within a few weeks, articles describing effects of these strange rays on radiation workers began to appear in journals. There were many reports on somatic radiation effects in radiological technologists and radiologists in the early days of X-rays (Archer, 1995). X-ray late effects were also established in the study of mortality among British radiologists due to cancer and other causes (Smith and Doll, 1981). Until the 1950's there was no scientific report that include the late radiation effects and these late effects on patients and workers lead to radiation-protection regulation of today (Bushong, 1991). The main objective of radiation protection is to ensure that the radiation doses to which the radiation workers are exposed to are kept below permissible level (Binks, 1955). We have International Commission for Radiation Protection (ICRP) as the international regulatory body and in India we have AERB to counterpart ICRP (Grover et al., 2002). These bodies recommend norms for permissible doses limits for the general public and radiation workers (Grover et al., 2002).

In the study of occupational exposure in Brazil, diagnostic X-ray is the main source of exposure for workers in the medical field (Cunha et al., 1992). Radiation workers are exposed to radiation mainly from primary and scattered radiation. However diagnostic workers received very small amount of radiation due to primary and most of the doses is due to scattered radiation (Osborn, 1955). When a photon interacts with matter, it is either absorbed or it experiences a change in its energy or direction of motion. These photon are called scattered photons (Carlsson and Carlsson, 1996). X-rays photons interaction involved three important mechanisms: photoelectric, coherent-incoherent scattering and pair production (Johns and Cunningham, 1983). In diagnostic radiology only photoelectric effect and coherent-incoherent scattering is important as energy ranges up to 150 kV is employed (IAEA, 2014). In photoelectric interaction, most of the photon energy is converted into Kinetic Energy (KE) and only some energy appeared as scattered radiation. However, in coherent scattering all energy is scattered; no energy is converted into KE and in incoherent scattering, some energy is transferred to KE and some are scattered (Johns and Cunningham, 1983).

From the study of occupational exposure in X-ray diagnosis in Brazil by Cunha et al. in 1992 and national survey of occupational exposure among diagnostic technologists in South Korea by Lee et al. in 2014; we see that radiation workers are monitored. But, in the present study none of the workers have been monitored by PMD that is why we follow the present method. By using ionization chamber, we measured stray radiation from X-ray tube as leakage radiation and scattered from cylindrical phantom, ceiling, wall etc. at CP. By using workload (mAmin/week) and radiation rates we calculated dose in mR/week and compare to safety standard.

Physico-Chemical Characterization of Potable Water In Western Aizawl

Laltlankima¹, Shiva Kumar¹, John Blick¹, Lalawmpuii¹& K. B. Singh²

¹Department of Geology, Mizoram University, Aizawl ²Department of Chemistry, Govt. Zirtiri Residential Science College, Aizawl

Abstract

Aizawl city water supply is provided by PHED, Govt. of Mizoram through water pipe connections. The people of Aizawl also depend on tuikhur and hand pumps for the alternate source of potable water for their domestic purposes. The water samples were collected from different selected sites of Aizawl for their physico-chemical analyses such as pH, electrical conductivity (EC),total dissolved solids(TDS), turbidity, , total chloride, total hardness, iron and fluoride. Total coliform (MPN) and faecal coliform (MPN) were also determined for bacteriological characteristics in order to obtain the current status of potable water quality in the study area. Heavy minerals analyses were also done with MP-AES. The results show that the water quality of tuikhur and hand pumps which are used for domestic purposes are by and large within the acceptable limits.

Key word: MP-AES, bacteriological test

7

Arsenic Contamination in Potable Water of Chawngte, Lawngtlai District, Mizoram John Blick^{1*}, Laltlankima¹, Shiva Kumar¹ & K. B. Singh² ¹ Department of Geology, Mizoram University, Aizawl, Mizoram ²Department of Chemistry, GZRSC, Aizawl, Mizoram

Abstract

Arsenic contamination in potable water is a common feature in neighboring border of Mizoram. They include Bangladesh, Tripura, Assam and Manipur. The contamination of groundwater by arsenic in Chawngte is likely to be happened due to its sharing of a common land border with Bangladesh. The main sources of water in the area are surface water, ground water and rain water of which the latter two sources generally meet the most important supplementary sources of drinking water in their natural condition for the locality. The area is dominated by mainly three types of tribes broadly in cluster manner. They are Mizo, Lai and Chakma, while Chakmas are closest to the Bangladesh border. People of Chakma are forced to fetch water for their daily needs from tuikhurs (spring) or other sources. These waters are usually consumed directly without having proper treatment because of the shortage of the supply water by PHED. At this moment the contamination of the underground water has become a great challenge for providing safe drinking water to the majority of the population. It has been observed that several number of tube wells, tuikhurs and hand pumps, exist in any cluster or community. Generally, not all tube wells and hand pumps in an area are affected by arsenic. Therefore, the immediate challenge is to find out the unaffected ones in the affected areas and commence routine monitoring in order to stop using the currently affected tube wells as soon as arsenic is detected.

Keywords: Chawngte; arsenic; potable water (physico-chemical parameters).

8. SEMINAR AND WORKSHOP.

| SI. | Name of Faculty | Title of | Organized by | Date |
|-----|-----------------|------------------|--------------|------|
| No | | Seminar/Workshop | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

9. ACTIVITIES AND ACHIEVEMENTS OF VARIOUS SUB COMMITTEES

I.IQAC:

Members:

Coordinator: Prof B Zoliana

Lalrinsangi Nghinglova Lalsangkimi Hmar Dr R Lalengmawia M.S.Dawngliani

Objectives:

i. To work towards realising the goals of quality enhancement.

ii.To develop a system for conscious and consistent improvement in the performance of the college by

- Preparing Academic Calender at the beginning of every session in accordance with the MZU calendar.
- Monitoring the functioning of all sub-committee and departments.
- Collecting feed back from students.
- Implementing the mentoring system.
- Organising Parent-Teacher Meets

iii. The IQAC is empowered to take necessary actions under the supervision of the Principal.

II.EXAMINATION:

Members:

Chair : Principal

Secretary : Dr Rosangliana

Dr. R.Lalengmawia

H.Lalnunsangi Lalrammawii M.S.Dawngliani

Objectives:

i. To supervise, ensure smooth and secure conduct of internal and university Examinations.

ii.To Implement rules of examinations strictly, in accordance with the university and college rules and take actions against defaulters.

iii.To collect and maintain internal marks of students from concerned department and send them to the University as and when required.

iv. To conduct briefings on examination rules, etc. to students as well as faculty members before University examinations.

v. To coordinate with the examination department of Mizoram University in all matters relating to examinations and make notifications to students whenever necessary.

- i. Internal test examinations are conducted by preparing examination time table for each department. Copies of internal marks of all departments is recorded.
- ii. Workshop on Sensitization of Exam matter was conducted by Exam Department, MZU during this reporting period, secretary of this committee and one office staff was participated.
- iii. End Semester exams commencing from 10th November to 8th December 2017 was conducted. Question papers received from University are arranged and checked well in advance, exam duty invigilation for teachers and office staff are also prepared in advance in order to conduct smooth exams.
- iv. A new pattern of CS and Practical mark submission to MZU was followed; all marks are submitted to MZU through online in the portal provided by MZU.

III. ADMISSION:

Members:

Chair : Principal

Secretary : Laltluangkimi Hnamte

All HODs

Objectives:

i.To implement the already existing rules contained in the prospectus and set new criteria and rules for admission into the college if and when necessary.

ii. Setting of time frame for admission procedure.

iii.Performing the needful during the time of admission such as appointing members for help desks and interview of students seeking admission.

IV.AISHE:

Member:

Lawrence Zonunmawia Chhangte

Objective:

i. To perform documentation work as proposed by concerned authority.

Activities:

i. Collect Institution statistics and upload to aishe web site (http://aishe.gov.in)

V.ANTI-RAGGING & GRIEVANCE:

Members:

Chairman :Remlalsiama Secretary :S.Thangrimawii

Lawrence Zonunmawia

L.B.Singh

Lalsangkimi Hmar

Sailopuii

Objectives:

i.To ensure that there is no ragging in any form among our students within and outside our college campus

ii.To ensure that no student is a victim of harassment, exploitation and discrimination on any ground..

iii.To look into the grievances of students and take necessary action for redressal.

- i) Grievance and Ragging Complaint/Report Box is placed at the main corridor of the college.
- ii) This complaint box is monitored every working days throughout the session. Not a single complaint was received.
- iii) Committee Members are advised to sense any kind of ragging apart from Grievance box.
- iv) Prohibition of Ragging in and outside the college campus. Notice is placed in all notice board of the campus twice throughout the year.
- v) Announcement regarding prohibition of any kind of ragging is made in each and every classrooms.
- vi) Grieveance cell complaint box is renovated and repainted once throughout the session.

VI.STUDENT'S UNION:

Members:

Chairman : Lalnunthara

Secretary : Dr. Lalzahawmi Chenkual

Lalhmingliana C.Lalramdina S.Thangrimawii Lalremruati

Objectives:

i.To organise Annual Student's Union Election.

ii.To render overall supervision of all activities of the student's union.

iii. To help promote general welfare of the students.

iv. To provide necessary advice and assistance to the student body.

- i. Conduct Fresher Social on 14/07/2017.
- ii. Conduct election of Classes Representatives from all classes for 2017-2018 on 10/07/2017.
- iii. Conduct election of Student's Unionfor 2017-2018 session on 26/07/2017. Appointment of Returning Officer and Polling Officers and assignment of faculties for counting of votes.
- iv. To help and guide newly elected SU leaders during college week and to see the smooth functioning of various activities during college week by maintaining strict discipline throughout the week.
- v. Compel the students to wear College T-shirt every Tuesday and Thursday.
- vi. Take necessary action to students who were found drunk in the college campus.
- vii. Organised college week closing function at Chanmari YMA Hall on 10/03/2017.
- viii. Participated MZU sport held during 20th-24th March 2017.

VII.GAMES AND SPORTS:

Members:

Chairman : C.Zoramthara

Secretary : Dr. Lalhmangaihzuala

Dr KB Singh M.I. Singh

Lalzahawmi Chenkual

Zarzokimi Vanlallura

Laldingliana Sailo

LB Singh

Dr PC Rohmingliana

Lalrosangpuii C Lalrinawma Lalremtluanga Laltlankimi

Objectives:

i.To supervise all activities relating to games and sports of the student body.

ii.To appoint teachers on duty during college and university sports.

iii.To monitor purchase of sport goods and ensure the management of sports venues.

- i. All the sport equipment were kept in a roon opposite to Maths Laboratory.
- ii. Duty List for college week was prepared.
- iii. College week was held from 4th Sept 9th Sept 2017.
- iv. Bought sport equipment for different discipline.
- v. Duty List of teaching faculties for MZU sport was prepared.
- vi. Participation in MZU sports held on 20th-24th March 2017.

VIII.COLLEGE MAGAZINE:

Members:

Chairman : Laltluangkimi Hnamte

Secretary : Lalmalsawmi

Lalthanpuii Ralte H Thangkhanhau Lalhmingliana Hnamte Dr R Lalawmpuii

Objectives:

i.To ensure publication and proper distribution of the Annual College magazine.

ii.To render advice to magazine editors as and when necessary.

iii.To empower magazine editors in collection and selection of articles for magazine.

iv .To help in editing of college magazine.

- i. Appealing to students of different classes to contribute to college Magazine.
- ii. Taking pictures of different activities to be published in the magazine.
- iii. Preparing and giving appeal letter to all teaching staff to contribute to Magazine.

IX.DEBATING, SOCIO-CULTURAL

Members:

Chair : Lalthanpuii Ralte Secretary : R.Lalengzami

> Dr Arup Kumar Dr PC Skariah

Laltluangkimi Hnamte Lalrinsangi Nghinglova

Lalmalsawmi Mary Lalthansangi Lalrinngheti Ralte Dr R Lalawmpuii Dr C Lalmuankimi

Objectives:

i.To ensure smooth functioning of SENHRI, our college cultural club.

ii.To assist in selection of student representatives /participants in intercollege debates,quiz ,cultural functions etc

iii.To help promote the art of Public speaking among students.

iv. To help students in organizing competitions under the debating department during college week .

- **i.** The committee helped the SU incharge to organize and judge the indoor activities and cultural programme held during collee week (6th and 7th sept 2017)
- ii. Senhri cultural club performed special items during Freshers Social (19th July 2017) and college week closing function(15th Sept 2017).
- iii. After the 1st internal exam in odd semester, members of senhri cultural club practiced regularly at the college Auditorium in preparation for the college Week Closing Function.
- iv. The committee helped to select contestants for the miss/mister contest and the committee members- Laltluangkimi Hnamte, Lalmalsawmi and Lalrinsangi Nghinglova were judges for this contest.

X. SPIRITUAL COUNSELLING

Members:

Chair : Lalhmingliani Hlawndo

Secretary : Lalhruaitluanga

Lalrinngheti Ralte Dr P.C.Skariah Laltlanchhungi Lalrintluangi

Dr Lalhmangaihzuala

Objectives:

i.To assist the activities of the Evangelical Union.

ii. To provide spiritual counselling to those in need.

iii. To promote and ensure mental and spiritual health of students.

- i. Meeting for E.U Rising Day was conducted. Activities for fund rising, programmes and different sub committee were formed.
- ii. Fund Rising were done by selling smoked porked, distributing enveloped for donation among adviser/ teachers and students.
- iii. Project meeting for equipping E.U Office were done by fund rising and purchasing of mic stand, filter, fan and mirror.
- iv. We have fellowship three times a week during lunch break.
- v. Members of the committee are given a chance for short sermon.
- vi. Release of Evangelical Union T shirt.
- vii. Hollow Guitar and Plastic chairs were donated by RUSA.
- viii. Media Zonet covers Evangelical Union fellowship and interview committee members and student.

XI.REFRESHMENT

Members:

Chair : Mary Lalthansangi Secretary : Maria Lalhmingmawii

> Lalrintluangi R Lalmawipuii Dr Lalmuankimi Dr Lalhmangaihzuala

Dr. Ricky Lalhmangaihzuala

Dr P.C. Rohmingliana Dr Lalsaimawia Sailo

Objectives:

i.To take charge of selecting and ordering food items to be distributed in college functions.

ii. To take charge of distributing the selected food items during the functions.

- i. Refreshment was prepared for 80 people when the commissioner, HTE visit the college on 25th January 2017.
- ii. Refreshment was prepared for 90 people on Consumer Awareness program by bureau of Indian Standards (BIS) and IQAC, GZRSC on 22nd February 2017.
- iii. Refreshment was prepared for 310 people on the celebration of National Science Day on 28th February 2017.
- iv. Refreshment was prepared for 8 persons when Impromptu eas visited by the minister, THE on 9th March 2017.
- v. Refreshment was prepared for 90 people during workshop on IPR organized by IPR committee, GZRSC and MISTIC, Science and Technology on 24th March 2017.
- vi. Refreshment was prepared for 200 people on GZRSC Alumni Day organized by Alumni Committee and sponsored by RUSA held on 1st Aug 2017.
- vii. Refreshment was prepared for 60 people for 5 days on Trainer's Training Programme for Enhancing Equity and Inclusion by Website committee, GZRSC and centre for Social Research, New Delhi, sponsored by RUSA held from 16th-22nd August 2017.
- viii. Refreshment was prepared for 350 people on Parents- Teacher meet organized by IQAC, GZRSC sponsored by RUSA on 24th August 2017.
- ix. Refreshment was prepared for 300 people on Career Advancement Campaign organized by Research and Seminar Committee, GZRSC in collaboration with Central YMA, sponsored by RUSA held on 28th August 2017.

XII.DECORATION & HALL ARRANGEMENT

Members:

Chair : Lalsangliani Khawlhring Secretary : Rebecca Lalnuntluangi

Lalsangliana Khawlhring

Lalrinngheti Ralte Lalhmingliani Hlondo

Vanlallawmi Parijat Kumar Mimi Lalmuanawmi K Zosangpuii

Rebecca Lalnuntluangi

Objectives:

i.To take charge of decoration & hall arrangement for college functions.

ii.To look after the beautification of the college in general.

- i. Flowers and banner are put up before every functions. The room where function will take place will be decorated with flowers and so on. Banner if needed were also arranged.
- ii. No steps is taken regarding the requirements submitted.
- iii. As the principal suggested, beautification of college campus and purchase of more artificial flowers and plants will also be done after the submission of admission fees.
- iv. Time table of each members is kept by the chairman so that decoration of the particular function is taken care by the chairman. Information is given through watsapp and every member of the committee are requested to be alerted.
- v. Responsibility for decorating the Hall prior the occasion is done by four committee members appointed by the chairman.
- vi. Picture of the founder and the principals to be mounted on the wall of the main building has been working in progress.
- vii. Dt 14th Sept 2017, purchase of artificial flowers was taken by 2 members of the decoration committee i.e Ms Lalsangliani Khawlhring and Ms Vanlallawmi financed by the coordinator IOAC.
- viii. Put up banner and arranges flowers on seminar on National Science Day on 28th February 2017.
- ix. Clean, decorate the room and arrange seat on consumer awareness programme on 22^{nd} February 2017.
- x. Clean and decorate hall before Workshop on intellectual property rights on 24th March 2017.
- xi. Meeting of cell members and submission of requirements to the principal on 30th March 2017.

XIII.SECURITY

Members:

Chair : C.Lalramdina Secretary : Sailopuii

Lalhruaitluanga

Zodinpuii C Lalrinawma L B Singh

Dr Ricky Lalhmangaihzuala

Remlalsiama Lalnunthara R Lalengzami

Objectives:

i. To monitor disciplinary climate prevailing in the student community.

ii.To provide security and maintain discipline among students during college functions. iii.To issue rules relating to disciplinary proceedings as and when necessary and to strictly implement already existing rules pertaining to discipline of students in consultation with the Principal.

- i. Participated and performed security duty during the College Week Closing functions held on 10th March 2017. A night duty was also detailed from the members of the committee.
- ii. Performed security duty as far as possible to maintain discipline among the students during MZU Sports held during 20th-24th March 2017.
- iii. Maintained discipline among the students as far as possible inside the college Campus trying to prevent a false play by the students during the reporting period.

XIV.CANTEEN

Members:

Chair : Vanlallawmi Secretary : Zonunthari

Caroline Zaihmingthangi

Lalthanpuii Ralte Parijat Kumar K Zosangpuii C Lalremruatfela Dr Fanai Lalsangluaii

Objectives:

i. Authorized to select the canteen proprietor.

ii.To monitor the working of the college canteen and give necessary advice to them.

iii.To supervise and ensure efficient management of canteen towards providing hygienic, healthy and tasteful food items.

- i. Tender was called and six candidates appeared. Pi Lalbiaknungi was appointed to run the canteen.
- ii. Renovation of canteen was done.
- iii. Instruction on cleanliness and guidelines was given to the canteen runner.
- iv. The committee inspect the canteen at regular intervals.
- v. Charcoal burner was newly constructed at the corner of the canteen.

XV. LIBRARY

Members:

Objectives:

i.To guide the librarian in formulating general library policies and regulations ii.To work towards modernization and improvement of the library iii.To adopt measures to enhance and promote reading culture among students. iv. To organise orientation programmes on library use.

XVI.RECEPTION

Members:

Chair : Zodinpuii Secretary : Remlalsiama

> Laltlanchhungi H Lalnunsangi

Caroline Zaihmingthangi

Dr K B Singh

Objectives:

i.To look into matters pertaining to reception of invited guest, dignitaries , resource persons etc to college functions and programmes

ii.To cordially receive officials during college functions, inspections etc. and provide gifts and flowers if necessary. To make arrangement for transportation and accommodation of guests when required.

iii.To maintain the *visitor's book* and ensure that all visitors give their feedback of their visit in the book.

- i. Receptions are rendered when the commissioner visit the college on 25th Jan 2017.
- ii. Receptions are rendered on Consumer Awareness Programme on 22nd February 2017.
- iii. Receptions are rendered on National Science Day observation on 26th February 2017.
- iv. Duties assigned to the committee are well performed as a team. Visitors book is kept on which signature of our gueast are taken including our very own minister R Romawia (honorable minister of Higher and Technical Education etc)

XVII.CLEANLINESS & SANITATION

Members:

Chair : Lalrammawii Secretary : C.Zoramthara

> S Thangrimawii Mary Lalthansangi

Zonunthari

Lalremruati Hmar C Lalremruatfela

Objectives:

i.To Ensure that cleanliness is maintained in classrooms and college campus.

ii.To organise regular cleanliness drive jointly with the NSS.

iii.To take all necessary steps to ensure cleanliness (e.g selection of cleanest classrooms etc)

iv. To inculcate the importance of cleanliness and promote clean & hygienic living.

- i. Launching of Cleanliness Week on 28th September 2017 at College Auditorium in collaboration with NSS Unit, GZRSC. The Programme was organized successfully in the presence of our respected principal with all professors and students.
- ii. Observance of Cleanliness Week (2nd to 6th October 2017). Cleanliness week was observed throughout the week even by cleaning the college building and campus.
- iii. Students were reminded to maintain their respective rooms clean.
- iv. Took up responsibilities of cleaning up the place in every function held in the college such as:
 - a visit by the commissioner on 25th January 2017
 - consumer awareness programme on 22nd February 2017
 - observation of national science day on 28th February 2017
 - workshop on IPR on 24th March 2017.

XVIII.WEBSITE

Members:

Chair : H.Thangkhanhau Secretary : Laldingliana Sailo

Lalrinmawia

Lawrence Zonunmawia

R Lalmawipuii

Jonathan Lalrinawma

Lalhmunmawii

Objectives:

i.To monitor the college website and keep it updated with relevant informations including the syllabus, etc.

ii. To generate easy access of informations and study materials to benefit students as well as the faculty.

iii. Establish policy concerning the operation of the website.

Activities:

i. Updating website

Website committee update college website whenever required. All the items or notifications or news received from Principal Office to be upload into website without fail. Not only that, any news items or information received from Faculties, Staffs, etc. are uploaded into college website. Photos of our College New Buildings constructed under RUSA Funding. Different equipment purchased under RUSA are also updated into College website as a photographic evidence.

ii. Looking after inflibnet digital library

INFLIBNET is a UGC-Infonet Digital Library Consortium which was formally launched in December 2003 by Honourable President of India Dr. APJ Abdul Kalam. In this digital library, there are currently more than 6,000+ e-journals and 31,35,000 e-books. Website committee play major role since this program was joint by our college Library. Username and passwords for all the faculties whether regular or not is created by Website Committee. **Recently, username and password for newly joint faculties are created.**

iii. Joining IITs Program (NPTEL)

NATIONAL PROGRAMME FOR TECHNOLOGICAL ENHANCED LEARNING

NPTEL is an acronym for National Programme on Technology Enhanced Learning which is an initiative by seven Indian Institutes of Technology (IIT Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) and Indian Institute of Science (IISc) for creating course contents in engineering and science. There are many courses appropriate for students of Computer Science, Home Science, Geology and BSc in different subjects. Different online courses were conducted through this NPTEL program and certificate from IITs were given to successful students who passed the exam.

Website Committee under the Guidance of our respected Principal takes initiative to join this program i.e. to open Local Chapter of NPTEL program is our college so that students can learn

whatever courses appropriate from them. We also apply to become the first Exam Centre for NPTEL program. If all our initiative steps of application for opening NPTEL local chapter and Exam Centre were successful, many students will benefit from this program and they will get certificate from IITs which will boost their career while applying for jobs.

iv. Website domain renewal

Our college website domain i.e. www.gzrsc.edu.in which was purchased from Education and Research Network (ERNET) as per directive from Ministry of Communications and Information Technology (Govt. of India). This domain is about to expire on July, 2018. Website Committee as agreed to take initiative to renew our college domain before the expiry date. Application for approval to sanction money for domain renewal had been submitted to our Principal and the same has been approved. *Therefore, our domain will be renewed for another 9 years*.

v. Upgradation of website framework

Currently, our college website was created using free open source software. Even though website committee tried our best to develop and create a very beautiful website, there are some limitations using this free website framework software. There are many limitations in terms of display, adaptations, capabilities of our college website using free framework software. Mobile phones and different smaller screens were not supported in the current website.

Therefore, Website Committee decided to purchase paid version of Website Framework Software to make our college website more beautiful, more capable and more adapt to different devices for accessing the website including mobile phones and handheld devices. Request or application for purchasing website software framework has been submitted to our Principal. We are happy to learn that our application has been approved by our Principal and our website will be upgraded using RUSA Fund.

vi. Joining microsoft imagine program

Microsoft Imagine, formerly known as DreamSpark, is a Microsoft program to provide students with software design and development tools at no charge. The program was available for more than 80 countries. It is estimated that up to 35 million students will be able to access these software titles free of charge through this program.

But in order to provide free software to students, institution have to join the program where there is a subscription fee. If our college subscribe to this program as a premium subscriber, we will be able to use most of Microsoft software including **Microsoft Windows** for free by our college as well as by the students. This will greatly reduce our licensing fee for software and we will be *free from Software Piracy*.

Considering the benefit of this programme, Website Committee take all the necessary steps so that our college can benefits from this program. Request to take necessary actions to join this program has been submitted to our Principal stating the different subscription fee and renewal fee. We are happy to learn that Principal approved our application for subscription of 3 years and renewal of 3 years i.e. 6 years under RUSA Funding.

Website Committee hope that by using this program, we will be free from Software Piracy and avoid hard questions from UGC NAAC Inspection Team. We also hope that this program will give us some points in positive ways in the next NAAC Accreditation.

vii. Looking after college official email

Website Committee in collaboration with Google Inc. offer official email for our college i.e. @gzrsc.edu.in which has the same features as Gmail. It means it is as good as Gmail. There are many situations where public emails are not accepted and only official email are accepted. Official email is also one of the first proof that employees are working in that organization or institute especially in the field of Research and Development.

Website committee look after this official email and created email IDs for all faculties. Recently, official email IDs were allocated to new faculties.

vii. Organizing state level workshop

Website Committee & Innovation Committee are planning to organized State Level Workshop on Financial Management and Digital Teaching Methods from 5th – 12th April 2017. This workshop will be sponsored by RUSA. Joint meeting between Website Committee and Innovation Committee had been held and all necessary steps were also taken including approval from the Principal. The target audience for this workshop is College Faculties. Experts from Information & Communication Technology Department, Govt. of Mizoram and SBI, Regional Business Office were invited to be the Resource Persons. Some of the experts from our College Faculties were also invited to present papers.

We hope that participants will benefits from the workshop as recent digital payment systems including Electric Bill Payment recently launched are included in the workshop. We also hope that faculties will be able to use their digital teaching skills in day to day teaching activities.

XIX.ALUMNI

Members:

Chair : Lalrinsangi Nghinglova Secretary : Dr.P.C.Rohmingliana

> Lalrammawii M.S.Dawngliani Lalremruati Hmar Maria Lalhmingmawii

Objectives:

i.To maintain close ties with our ex-students and take note of their placements.

ii.To organise Alumni day

iii.To assist the student alumni commitee

- i. Celebration of Alumni Day on 1st August 2017.
- ii. Organised election of office bearers and newly elected office bearers are given charge and names published on newspaper.
- iii. Felicitation of successful Alumni Members.
- iv. Organised Research Motivation Seminar.
- v. Release of Alumni Constitution.

XX. RESEARCH & SEMINAR

Members:

Chair : Dr Lalzahawmi Chenkual Secretary : Dr.Ricky Lalhmangaihzuala

> Prof B Zoliana Dr Rosangliana

Lalrinsangi Nghinglova

Sailopuii

Dr Fanai Lalsangluaii

Objectives:

i.To Facilitate research culture among students and the faculty.

ii.To initiate, facilitate,integrate, recommend and support research projects conducted by faculty members and students

iii.To organise Seminars, lectures on selected topics at regular intervals.

- i. Organised the celebration of National Science Day on 27th February 2017 at college Auditorium, GZRSC.
- ii. Preparation of certificate in intellectual Property Rights and Grass Root Innovation on 24th March 2017 at Professor's Common Room, Gzrsc.
- iii. Organised a seminar on "Career Advancement Programme" on 28th August 2017 at College Auditorium, GZRSC in collaboration with Central YMA, Mizoram.
- iv. Organised winter class on Environmental Research technique for 3 months course started on 1st December 2017. This programme is sponsored by RUSA, GZRSC in collaboration with State Legal Services Authirity HRDC, MZU and Pollution Control Board.

XXI.DISASTER MANAGEMENT

Members:

Chair : Lalnunthara Secretary : C.Lalremruatfela

> Lalsangliani Khawlhring Dr. Lalzahawmi Chenkual

C. Zoramthara Laltlankima

Dr. C Lalmuankimi

Objectives:

i.To react to any kind of disaster, natural or man-made that involves the college.

ii.To spread awareness on mitigation of any kind of disaster

iii. To work in close proximity with the Disaster management Department, Govt. of Mizoram.

XXII.VILLAGE & SCHOOL ADOPTION

Members:

Chair : Prof. B.Zoliana

Secretary : Dr.Ricky Lalhmangaihzuala

Dr R Lalengmawia

Lalthanpuii

Laltluangkimi Ralte Lalrinngheti Ralte Vanlallawmi

Lalhruaitluanga

Objectives:

i.To encourage extension programmes for greater social good.

ii.To work towards upliftment of adopted villages & schools.

iii. To arrange invited lectures in collaborations with the school authority.

Activities:

i. The meeting resolved to meet the authority of the adopted School i.e Rosebud School, Ramhlun Venglai. Three members from the committee visited Principal and Staff of Rosebud School. It was discussed about our collaboration for promoting Science Education which can rendered to them. The technical that can be rendered are listed as undet-

- a. Observation and study of functioning of lower classes.
- b. Popular lecture.
- c. Career Guidance.
- d. Invited lectures on selected topics.
- e. Laboratory demonstration and support.
- f. Guidance on science activities (Science Congress, Science Seminar, Science Exhibition etc)
- ii. The two schools Govt. Zemabawk Hogh School and Govt. Republic High School were also visited in pursuance of the Director School Edication request. Two School also communicated on promotion of Science Education and Services we can rendered.
- iii. We also included the adoption of Govt. Venglai Middle School in addition to the existing adopted school. We already visited the Principal and staff of this school and discussed our action plan for our collaboration and promotion of Science Education.

XXIII.WOMEN STUDIES

Members:

Chair :Lalsangkimi Hmar Secretary :Lalrinsangi Nghinglova

Lalthanpuii Ralte Lalhmingliani Hlondo

Objectives:

i. To work towards promotion of gender equity.

ii.To uplift the girl student and provide special provisions wherever possible.

iii. To coordinate with the Women Study Centre, Mizoram University in organising seminars, etc.

- i. Visit to the women centre MZU.
- ii. Supported Home Science Department in extension programme to the local women in the college vicinity. Provide awareness on child's rights, budgeting etc and organized cooking class.

XXIV.INTELLECTUAL PROPERTY RIGHT

Members:

Chair :Dr. Lalhmingliana Hnamte

Secretary :C.Zoramthara

Dr Arup Kumar Prof B Zoliana

Lalhmingliani Hlondo

Objectives:

i.To disseminate awareness on patent rights and educate members on issues relating to intellectual property

ii.To study and monitor intellectual property and copyright issues.

iii. To coordinate with the IPR Cell, Department of Science & Technology, Govt. of Mizoram.

Activities:

i. Organised one day state level workshop on Intellectual Property Right and Grass Root Innovation jointly with Patent Information Centre, MISTIC, Govt of Mizoram on 24th March 2017 at Professor's Common Room.

XXV.STUDENT'S SUPPORT

Members:

Chair : Zodinpuii

Secretary : Lalrinsangi Nghinglova

Dr. Lalzahawmi Chenkual

Lalsangkimi Hmar

Caroline Zaihmingthangi

Lalthanpuii Ralte M.S.Dawngliani H Thangkhanhau Lalhruaitluanga

Objectives:

i.To provide assistance to students who are economically deprived.

ii.To organise add on courses such as CCC and other such courses.

iii.To organise Personality Development course for final year students and equip them with life skills.

iv. To provide career counselling to students and look out for placement of students.

- i. CCC classes conducted from August 2017.
- ii. Career counseling class organized for all students on three occasions i.e 25th and 26th July 2017 and 1st August 2017.
- iii. Register maintained to help students to "Earn while they lean".
- iv. Students Representatives name Sylvia LAllawmkimi and Nick Lalrinmawia were sent to attend a three days programme on Mizoram Sustainable Development foundation during the monthe of August.
- v. Student Representative namely Lunngaihliani and Lalduhawma BCA sent to attend the Entrepreneur Awareness Camp.
- vi. Financial assistance given to 3 students from the Poor Fund collected by the faculty of the college.

XXVI.INNOVATION CLUB

Members:

Chair :Lalhruaitluanga Secretary :Lalmalsawmi

Lalrinmawia

Mary Lalthansangi C Lalngaihawma

Objectives:

i.Explore innovative ideas in local groups

- ii. Organise seminars, conferences, workshops, exhibitions relating to innovations
- iii. Develop innovative mindset and train for entrepreneurship
- iv. provide opportunities and platforms for students, teachers and other members of the society
- v. Support and facilitate grass root innovations.
- vi. Document innovations for different walks of life
- vii. Collaborate with micro, small and medium enterprises.
- viii.To promote innovation, creativity and engagement in science.
- ix. To cultivate in students the ability to think "out of the box"

- i. Bulletin board furnished by different departments as follows: Botany (5th sem), Home Science(5th sem), Zoology (5th sem) and BCA(5th sem). The bulletin board near Professor's common Room was manned and furnished with creative ideas by the said departments starting from 28th Aug till date.
- ii. Science exhibition 2017 was organized on 12th and 13th October at the college Auditorium. In this exhibition 10 departments of GZRSC displayed about 45 models altogether. Chemistry department was awarded the most innovative department with the model "Indigenous Incineration". More than 420 students from 9 different institutions attended this exhibition.
- iii. The club visited Aizawl Venglai Primary School on 10th February 2017. Mr Lalrinmawia and Mr Lalhruaitluanga presented lecture on Basic Science and Application of Computer. They were very interested and happy in the program.
- iv. Innovation club and website committee are planning to organized State Level Workshop on Financial Management and Digital Teaching Methods on 5th -12th April 2017.
- v. Club members from Computer Science department and chairman attended seminar on Thinking Social Connecting Youth to Social Enterprise organized by IIM Calcutte & TATA Social Enterprise on 31st March 2017 at PAchhunga University College.

XXVII.NSS

Members:

Chair : Lalnunthara

Secretary : Dr. P.C.Rohmingliana

Lalnunthara C Zoramthara

Mimi Lalmuanawmi Rebecca Lalnuntluangi Dr P.C Rohmingthanga C. Lalremruatfela

Objectives:

i.To fulfill the aims and objectives of the NSS ii.To serve the society without bias.

- i. Special Camping was organized at Durtlang on 15th to 21st July 2017.
- ii. Orientation programme for first semester students was organized on 27th July 2017.
- iii. Three Programme officers attended P.O meeting at Aijal Club on 11th August 2017.
- iv. Hosted visit programme of Central Evaluation Team on 24th August 2017.
- v. Attended "Clean Aizawl City" programme/Observance of 49th NSS day held on 22nd September at A.R. Ground.
- vi. One Programme Officer attended P.O meeting at SNO office on 22nd September 2017.
- vii. Launching of cleanliness week and observation of cleanliness week on 28th September at college campus.
- viii. Mass Cleanliness Drive at Chite River on 29th September 2017.
- ix. Special Camping was organized at Sairang Dinthar Veng during 23rd to 29th September 2017.
- x. Attended P.O meeting for training on Life skills, leadership and personality development for Mamit and Champhai District at SNO Office Chamber.
- xi. Plantation site visit/cleaning was conducted on 27th November 2017.

XXVIII.RED RIBBON

Members:

Objectives: i.To work towards fulfillment of the ideals of MSACS ii.To work in co-ordination with NSS

XXIX. SPOKEN HINDI

Members:

Chair : Dr. Rosangliana

Secretary : Dr. Lalzahawmi Chenkual

Members : RUSA Nodal Officers and Principal

Objectives:

i. To promote Hindi Language to the faculties and the students

- i. RUSA Nodal Officers Meeting on 08/09/2017 resolved to conduct Spoken Hindi Course. Officers In Charges were appointed.
- ii. Advertisement for the course was made. Application form was given out. Around 200 students applied for the course. Final Selection of the student was done on 13/09/2017. 50 final year students were selected to attend the course.
- iii. Opening function of RUSA sponsored Hindi Course was held at college auditorium at 2:30 pm.
- iv. Classes were taken regularly on every Thursday and Friday. Either the secretary or chairman was always present in all the classes.

10. NEW INFRASTRUCTURE AND FACILITIES ACQUIRED

A. Constructions

| SI. No. | Name of facilities | Amount | Utilised | Balance | Present Position | Remark |
|------------|---|---------------------------|-------------|-----------|------------------------|--|
| 1 | Construction of Laboratory Building | 1400000.00 (allocated) | 13055043.00 | 944957.00 | Construction completed | Balance shown is for 5% security deposit |

B. Up gradation and renovation of existing facilities

| SI. No | Particulars of Up gradation/Renovatio | Amount | Utilised | Balance | Present Positio | Remark |
|-----------|--|--------------------------------|------------------|------------------|---|---|
| • | Construction of Boys | | | | n | |
| 1 | Hostel and Girls Hostel, construction of approach road to hostels, construction of Environmental Laboratory etc. | 14000000.0 0 (allocated) | 4,094,325.0 0 | 9,905,675. 00 | Initial stage of construc tion | Amounts shown here is as per allocation in the DPR |

C. **Equipment**:

1. CHEMICALS

| SI. No. | Particulars of new equipment Purchase | Amount | Utilised | Balance | Page no. of Asset Register | Remark |
|------------|--|----------|----------|---------|----------------------------------|-------------------------------------|
| 1 | Acetic Acid – 1 bott | 16-25440 | 440 | Nil | | Entered in Botany Dept. stock |
| 2 | Acetic Acid 500ml LR BIOSOL – 4 bott | 1220 | 1220 | Nil | | |
| 3 | Acetone – 5 bott | 1875 | 1875 | Nil | 2 | |
| 4 | Acid Proof Hand Gloves 14" OPG - 10pair | 2550 | 2550 | Nil | | register |
| 5 | Ammonia Solution 500ml LR SQ - 2bott | 400 | 400 | Nil | | |

| 6 | Ammonium Buffer Solution 500ml LR SQ - 2bott | 460 | 460 | Nil | | |
|----|--|-------|-------|-----|---|--------------------------|
| 7 | Ammonium Ferrous Sul- phate 500gm LR RB – 4pkt | 1176 | 1176 | Nil | | |
| 8 | Anthrone 25gm ER SQ – 4pkt | 3230 | 3230 | Nil | | Entered in |
| 9 | Barfoed's Reagent 500ml - 1bott | 385 | 385 | Nil | 2 | Zoology |
| 10 | Barium Chloride 500gm – 2pkt | 737 | 737 | Nil | 2 | Dept. stock register |
| 11 | Barium Sulphate 500gm LR SQ - 1bott | 280 | 280 | Nil | | |
| 12 | Benzene 500ml – 5bott | 1750 | 1750 | Nil | | |
| 13 | Biurate Reagent 100ml LR ETPL - 1bott | 110 | 110 | Nil | | |
| 14 | Borax Carmine Stain. 100mlLR NB – 4pkt | 1800 | 1800 | Nil | | |
| 15 | Bouin's Fluid 100ml LR ETPL -2bott | 600 | 600 | Nil | | Entered in |
| 16 | Buffer Tablets Ph 4.0 20tab LR SQ - 1pcs | 403 | 403 | Nil | 2 | Chemistry Dept. stock |
| 17 | Buffer Tablets Ph.7.0 20tab LR SQ – 1box | 403 | 403 | Nil | | register |
| 18 | Carbontetrachloride 500ml – 5bott | 10600 | 10600 | Nil | | |
| 19 | Carmine 5GM RB - 1bott | 714 | 714 | Nil | | |
| 20 | Chloroform 500 LR SQ – 9bott | 3380 | 3380 | Nil | | |
| 21 | D.P.X. Mountant 250ml LR SQ - 2bott | 978 | 978 | Nil | | |
| 22 | Deionised Water - 4 | 920 | 920 | Nil | | |
| 23 | Dextrose Anhydrous 500gm LR RB - 2bott | 790 | 790 | Nil | | Entered in Botany |
| 24 | D-FRUCTOSE 500gm RB - 2bott | 1700 | 1700 | Nil | 3 | Dept. stock |
| 25 | Diphenylamine - 1bott | 925 | 925 | Nil | | register |
| 26 | Diphenylamine 100gm ER SQ - 1nos | 470 | 470 | Nil | | |
| 27 | Distilled Water – 1case | 230 | 230 | Nil | | |

| 28 | Distilled water 5ltr (carton of 4jar) LR RB - 1carton | 1408 | 1408 | Nil | | |
|----|---|------|------|-----|---|-------------------------|
| 29 | EDTA Acid 100gm LR RB - 2bott | 594 | 594 | Nil | | |
| 30 | EDTA disodium salt GRM 1370-1kg - 1nos | 2373 | 2373 | Nil | | |
| 31 | Eosin Stain Solution (aqueous) 100ml LR STB - 2bott | 400 | 400 | Nil | | |
| 32 | Formaldehyde 500ml LR SQ - 10bott | 2600 | 2600 | Nil | | |
| 33 | Glycerol 500ml LR BIOSOL - 4bott | 1680 | 1680 | Nil | | |
| 34 | Haematoxylin Powder 5GM LR RB - 2nos. | 5940 | 5940 | Nil | | |
| 35 | Hydrochloric Acid – 7bott | 1890 | 1890 | Nil | | |
| 36 | Hydrochloric ACID 500ml LR RB - 5bott | 1350 | 1350 | Nil | - | |
| 37 | Hydrochloroc acid 205 ltr LR SQ - 1bott | 675 | 675 | Nil | | |
| 38 | Hydroxyylammonium Chloride 100gm LR SQ - 2bott | 900 | 900 | Nil | | Entered in Chemistry |
| 39 | Iodine 100g – 2pkt | 5560 | 5560 | Nil | 3 | Dept. stock register |
| 40 | Lab Testing Soln. 450ml HLX – 17bott | 4760 | 4760 | Nil | | |
| 41 | Lactophenol Mounting 100ml LR NB - 2bott | 340 | 340 | Nil | | |
| 42 | ManganousSulphate LR 500ggm SQ - 2nos | 978 | 978 | Nil | | |
| 43 | Methyl Alcohol 500ml SQ - 2bott | 520 | 520 | Nil | | |
| 44 | Methylene Blue – 2bott | 840 | 840 | Nil | | |
| 45 | N-Butyl Alchohol 500 ml LR RB – 5bott | 1922 | 1922 | Nil | | |
| 46 | Ninhydrin 10gm AR RB - 3bott | 2607 | 2607 | Nil | | Entered in Zoology |
| 47 | Nitric Acid 500ml LR RB - 4bott | 1600 | 1600 | Nil | 4 | Dept. stock |
| 48 | Oxalic Acid - 2bott | 820 | 820 | Nil | | register |

| 49 | Orthophisphoric acid 500ml – 5bott | 890 | 890 | Nil | | |
|----|---|------|------|-----|---|----------------------------|
| 50 | Paraffin wax 60-62*C 500 gm LR SQ - 1nos | 750 | 750 | Nil | | |
| 51 | Phenolphthalein Indicator Soln. 100ml LR ETPL - 5bott | 700 | 700 | Nil | | |
| 52 | Potassium Dichromate 500gm LR SQ - 1nos | 1075 | 1075 | Nil | | |
| 53 | Potassium ferricyanide LR 500gm SQ - 1nos | 1869 | 1869 | Nil | | Entered in Biochemistry |
| 54 | Potassium Iodide 500g – 1pkt | 5375 | 5375 | Nil | 4 | Dept. stock register |
| 55 | Potassium Nitrate 500g – 2pkt | 900 | 900 | Nil | | |
| 56 | Rectified Spirit – 3bott | 450 | 450 | Nil | | |
| 57 | Schiffs Reagent 500ml – 2bltt | 1208 | 1208 | Nil | | |
| 58 | Sodium Azide100gm LR SQ - 1nos | 550 | 550 | Nil | | |
| 59 | Sodium Carbonate 500gm LR EM -2bott | 700 | 700 | Nil | | |
| 60 | Sodium chloride 500gm LR BIOSOL - 2bott | 380 | 380 | Nil | | |
| 61 | Sodium Flouride 500gm LR SD'S - 2nos | 1376 | 1376 | Nil | | |
| 62 | Sodium Hrdroxide flakes 500gm LR SQ - 1nos | 164 | 164 | Nil | | Entered in |
| 63 | Sodium Hydrogen Carbonate 1KH LR SQ - 1nos | 373 | 373 | Nil | 4 | Home Science |
| 64 | Sodium Hydroxide Pellets 500gm AR RB – 11pkt | 4100 | 4100 | Nil | | Dept. stock register |
| 65 | Sodium Sylphate 500mg LR SQ - 2nos | 460 | 460 | Nil | | |
| 66 | Sodium thioxalphate 500g – 2pkt | 438 | 438 | Nil | | |
| 67 | Solochrome Black T 25gm- SQ - 1nos | 457 | 457 | Nil | | |
| 68 | Special Solvent 99.90% 500ml – 15bott | 6750 | 6750 | Nil | | |
| 69 | Starch Soluble 500gm LR | 5384 | 5384 | Nil | | |

| | SQ – 4pkt | | | | | |
|----|--|--------|--------|-----|---|-------------------------|
| 70 | Sulfuric Acid 2.5 ltr LR SQ - 1bott | 1089 | 1089 | Nil | | |
| 71 | Sulfuric Acid 500ml – 17bott | 5690 | 5690 | Nil | | Entered in Chemistry |
| 72 | Sulphuric Acid – 3bott | 1490 | 1490 | Nil | 5 | Dept. stock |
| 73 | TOULENE Rectified 500ml LE SQ - 1bott | 420 | 420 | Nil | - | register |
| 74 | Xylene Rectified 500ml LR RB - 2bott | 780 | 780 | Nil | | |
| | TOTAL | 122101 | 122101 | Nil | | |

2. LAB. EQUIPMENTS

| SI. No. | Particulars of new equipment Purchase | Amount | Utilised | Balance | Page no. of Asset Register | Remark |
|------------|---|--------|----------|---------|----------------------------------|---|
| 1 | 1.5 copper wire, 4 coils | 8320 | 8320 | Nil | 11 | Entered in Physics Dept. stock register |
| 2 | 101 PH Meter E1 – 5nos. | 74590 | 74590 | Nil | | Entered in Botany, |
| 3 | 111 PH Meter El - 3pcs | 32400 | 32400 | Nil | 11 | Zoology, Biochemistry |
| 4 | 112 Digital PH Meter ESICO - 3pcs | 29100 | 29100 | Nil | | Dept. stock register |
| 5 | 2.5 copper wire - 1coil | 3320 | 3320 | Nil | | |
| 6 | 2m plate & box - 10set | 1430 | 1430 | Nil | 11 | Entered in |
| 7 | 312 BO Digital Photo Colorimeter 8F El - 2pcs | 25960 | 25960 | Nil | 11 | Physics Dept. stock register |
| 8 | 1 no. each of 3D model of internal structure of the Earth i) Internal Structure of the Earth ii) Plate Tectonics iii) Geological Time Scale | 7950 | 7950 | Nil | 11 | Entered in Geology Dept. stock register |
| 9 | 3m plate & box - 10set | 1830 | 1830 | Nil | | |

| | 1 | | | 1 | - | 1 |
|----|---|-------|-------|-----|------|--|
| 10 | 5 in 1 comb. With box - 1set | 192 | 192 | Nil | | |
| 11 | 5m plate & box complete set - 8set | 4904 | 4904 | Nil | | |
| 12 | 601 Digital Conductivity Meter E1 – 2nos. | 28160 | 28160 | Nil | | |
| 13 | 611 Digital Conductivity Meter E1 – 4nos. | 43200 | 43200 | Nil | | |
| 14 | 9 Volt Battery – 2nos. | 550 | 550 | Nil | 12 | Entered in Physics Dept. stock register |
| 15 | AAA Battery - 1strip | 130 | 130 | Nil | | Stock register |
| 16 | Adaptor – 2nos. | 2960 | 2960 | Nil | | |
| 17 | Aerial Photograph/steropair (Black & White) 25x25 - 5nos | 3750 | 3750 | Nil | 12 | Entered in Geology Dept. |
| 18 | Aerial Photograph/steropair (Colour) 25x25 - 10nos | 8500 | 8500 | Nil | | stock register |
| 19 | Aluminum wire for earthling - 3coil | 270 | 270 | Nil | - 12 | Entered in Electronics |
| 20 | Analog Multimeter - 1nos | 700 | 700 | Nil | 12 | Dept. stock register |
| 21 | Analytical Digital Balance 200mg/.001mg SPT-200 PRIME - 1pcs | 41694 | 41694 | Nil | 12 | Entered in Chemistry Dept. stock register |
| 22 | Audio Frequency Generator 20 Hz to 200 KHz O/P 0-20V RMS – 2nos. | 15000 | 15000 | Nil | | |
| 23 | Auto digital TDS meter – 1nos. | 6600 | 6600 | Nil | 12 | Entered in Physics Dept. |
| 24 | Bacteriological incubator 12X12X12 DIAGNOS - 1pcs | 7560 | 7560 | Nil | | stock register |
| 25 | Bar Magnet 3" Alnico (5pcs) LAFCO - 2set | 2300 | 2300 | Nil | | |

| 26 | Bar Pendulum Set 4 Kowa - 2pcs | 2900 | 2900 | Nil | | |
|----|--|--------|--------|-----|------|--|
| 27 | Battery Eliminator (S.S) (0-5 volt, 3Amp) – 2nos. | 7400 | 7400 | Nil | | |
| 28 | Battery Eliminator (S.S) (0-5 volt, 500mA) – 2nos. | 4400 | 4400 | Nil | | |
| 29 | Binocular Microscope B1-220AC Motic – 5nos. | 230650 | 230650 | Nil | | |
| 30 | Binocular Microscope RED 200 MOTIC – 4nos. | 197140 | 197140 | Nil | | |
| 31 | Binocular Polarising (Petrological) Microscope - 4nos | 177800 | 177800 | Nil | 13 | Entered in Geology Dept. |
| 32 | Bottle Brush (set of 12pcs) TST - 1set | 275 | 275 | Nil | - 13 | stock register |
| 33 | Brunton Compass : Metal body in a case (Foreign make) - 6nos | 25200 | 25200 | Nil | | |
| 34 | Bunsen Burner W/out Stopclock (set of 2) TST - 5set | 2725 | 2725 | Nil | | Entered in |
| 35 | Bunsen Burner with Stop Clock BRIJ - 1pcs | 440 | 440 | Nil | 13 | Chemistry Dept. stock |
| 36 | Burete Stand 8x5x24 MICO (Set of 2) – 6set | 3936 | 3936 | Nil | | register |
| 37 | Chisel set (3 in a set) 16x150mm - 5nos | 3250 | 3250 | Nil | 13 | Entered in Geology Dept. stock register |
| 38 | Chromatography Paper 46x67 (Set of 10) LABSMAN NTC - 1set | 880 | 880 | Nil | 13 | Entered in Botany Dept. stock register |
| 39 | Collpitt Oscillator Trainer Kit – Model # Me 662 - 1nos | 2241 | 2241 | Nil | 13 | Entered in Electronics Dept. stock register |
| 40 | Contact Goniometer (Steel make) - 4nos | 1040 | 1040 | Nil | 13 | Entered in |
| 41 | De- Sauty Bridge – 2nos. | 12200 | 12200 | Nil | 13 | Physics Dept. stock register |

| | | | | | = | |
|----|--|-------|-------|-----|----|--|
| 42 | Decade Resistance Box (EIGHT DIALS) 1 ohm to 100 M ohms – 2nos | 7800 | 7800 | Nil | | |
| 43 | Different Ore Minerals - 17nos | 3150 | 3150 | Nil | | Entered in |
| 44 | Different Rock hand specimens - 17nos | 5525 | 5525 | Nil | 13 | Geology Dept. stock register |
| 45 | Digital Balance (Electronics) 0.001gm- 200gm Bandhan - 1pcs | 42780 | 42780 | Nil | 13 | Entered in Zoology Dept. |
| 46 | Digital Colorimeter 8F 312 E1 – 8nos. | 86360 | 86360 | Nil | 13 | stock register |
| 47 | Digital Conductivity Meter Alpha 06 E1 - 2pcs | 19600 | 19600 | Nil | 13 | Entered in Electronics Dept. stock register |
| 48 | Digital Microscope - 1pcs | 4600 | 4600 | Nil | 13 | Entered in Botany Dept. stock register |
| 49 | Digital Multimeter – 2nos. | 2400 | 2400 | Nil | 14 | Entered in Physics Dept. stock register |
| 50 | Digital PH Meter Alpha- 01 E1 - 2pcs | 19600 | 19600 | Nil | 14 | Entered in Zoology Dept. stock register |
| 51 | Dip Circle - 1pcs | 3960 | 3960 | Nil | 14 | Entered in Electronics Dept. stock register |
| 52 | Dissecting Microscope- Almicro - | 4340 | 4340 | Nil | 14 | Entered in Botany Dept. |
| 53 | Eco Tester Ph2 Pen Type EutechVidhi - 1pcs | 10955 | 10955 | Nil | 14 | stock register |
| 54 | Eryscreen - 1kit | 900 | 900 | Nil | 14 | Entered in Geology Dept. stock register |
| 55 | Eye piece pointer – 3nos. | 900 | 900 | Nil | 14 | Entered in Botany Dept. stock register |
| 56 | Face Mask – 5nos. | 25 | 25 | Nil | 14 | Entered in Geology Dept. stock register |

| 57 | Fet Voltmeter Trainer – Me 535 - 1nos | 3150 | 3150 | Nil | 14 | Entered in Electronics Dept. stock register |
|----|---|--------|--------|-----|------|--|
| 58 | Filter paper 11cm (set of 10 PKT) INDICA - 1set | 750 | 750 | Nil | 14 | Entered in Chemistry Dept. stock register |
| 59 | Fossil Plants – 1no. | 500 | 500 | Nil | 14 | Entered in Geology Dept. |
| 60 | Fossils specimens - 1set | 10650 | 10650 | Nil | 14 | stock register |
| 61 | Fuse te 5amp - 1box | 400 | 400 | Nil | 14 | Entered in Physics Dept. stock register |
| 62 | Garmin GPS Etrex 30 - 1pcs | 22000 | 22000 | Nil | - 14 | Entered in Geology Dept. stock register |
| 63 | Garmin GPS Oregon 650 - 1pcs | 38990 | 38990 | Nil | | |
| 64 | Gas part – 1no. | 250 | 250 | Nil | 14 | Entered in Chemistry Dept. stock register |
| 65 | Geological Instruments &Equipments - 1no. | 30420 | 30420 | Nil | | J |
| 66 | Geologist Hammer - 5nos | 6500 | 6500 | Nil | | |
| 67 | GL-0011 - 1no | 35320 | 35320 | Nil | | Entered in |
| 68 | GL-0012 - 1no | 143196 | 143196 | Nil | 15 | Geology Dept. stock register |
| 69 | GL-0013 - 1no | 98947 | 98947 | Nil |] | Stock register |
| 70 | GL-0014 - 1no | 3401 | 3401 | Nil | | |
| 71 | GL-0015 - 1no | 177670 | 177670 | Nil | | |
| 72 | GL-0016 - 1no | 205952 | 205952 | Nil | | |
| 73 | H Parameter of PNP Transistor in Common Emitter Mode. Me 532D - 1nos | 4410 | 4410 | Nil | 15 | Entered in Physics Dept. stock register |
| 74 | Haemcytometer - 12nos | 26400 | 26400 | Nil | 15 | Entered in Zoology Dept. |

| 75 | HaemocytometerMarien feld (O) - 3sets | 7350 | 7350 | Nil | | stock register |
|----|---|-------|-------|-----|----|---|
| 76 | Hair Dryer - 4nos | 2000 | 2000 | Nil | 15 | Entered in Zoology Dept. stock register |
| 77 | Hand pump - 1no | 550 | 550 | Nil | 15 | Entered in Chemistry Dept. stock register |
| 78 | Hartley Oscillator Trainer Kit # Me 661 - 1no | 2241 | 2241 | Nil | 15 | Entered in Physics Dept. stock register |
| 79 | Haversack adjacent felt with pocket good quality - 5nos | 1750 | 1750 | Nil | | |
| 80 | Hot Air Over 12x12x12 DIAGNOS - 1pcs | 7628 | 7628 | Nil | 45 | Entered in Botany Dept. stock register |
| 81 | Hot Plate 16"X10" (AM- 129) ALMICRO - 1pcs | 4235 | 4235 | Nil | 15 | |
| 82 | Igneous & Metamorphic Petrology - 3nos | 1485 | 1485 | Nil | 15 | Entered in Geology Dept. stock register |
| 83 | Inclined Monocular Microscope 6MO ALMICRO - 3pcs | 29976 | 29976 | Nil | 15 | Entered in Biochemistry Dept. stock register |
| 84 | Industrial Helmet - 20pcs | 3540 | 3540 | Nil | 16 | Entered in Geology Dept. stock register |
| 85 | Junction Diode Rectifier & Filter Characteristics with Power Supply - 2no | 16600 | 16600 | Nil | 16 | Entered in Physics Dept. stock register |
| 86 | Lab. Balance 200mg/0.001mg SPT 200 - 1pcs | 41694 | 41694 | Nil | | Entered in |
| 87 | Lab. Balance 500gm/0.01gm - 2pcs | 5940 | 5940 | Nil | 16 | Botany and Zoology Dept. stock register |
| 88 | Lab. Thermometer - 5pcs | 450 | 450 | Nil | | |
| 89 | Laboratory Balance BW- 320 300gm/0.01 - 1pcs | 14500 | 14500 | Nil | | |
| 90 | Lancets 200cs - 2pkt | 540 | 540 | Nil | 16 | Entered in Physics Dept. |

| 91 | Leucoband (1meter) – 3nos | 600 | 600 | Nil | | stock register |
|-----|---|--------|--------|-----|----|--|
| 92 | Me 611 Transistor Amplifier Circuit (CB, CE & CC Modes) - 1no | 4275 | 4275 | Nil | 16 | Entered in Electronics Dept. stock register |
| 93 | Me 619 Two Stage RC Couped Amplifier - 1no | 2583 | 2583 | Nil | | |
| 94 | Microscope Labovision - 10nos | 72000 | 72000 | Nil | 16 | Entered in Zoology Dept. stock register |
| 95 | Mirror Stereoscope binocular - 2nos | 328000 | 328000 | Nil | 16 | Entered in Physics Dept. stock register |
| 96 | Moh's Scale of Hardness box - 10nos | 5800 | 5800 | Nil | 16 | Entered in Geology Dept. stock register |
| 97 | Moh's Scale of Hardness set - 2nos | 1050 | 1050 | Nil | | |
| 98 | Multimeter - 2pcs | 9000 | 9000 | Nil | | |
| 99 | Multimeter Normal - 1pc | 799 | 799 | Nil | 16 | Entered in Physics Dept. stock register |
| 100 | Mx Sold. Pump - 1no | 250 | 250 | Nil | | |
| 101 | OP-AMP Characteristics - 2nos | 14000 | 14000 | Nil | | |
| 102 | Phase Shift Oscillator Trainer Kit # Me 664 - 1no | 2241 | 2241 | Nil | | |
| 103 | Plain Table with accessories & Stand 60x75cm Eastman - 2pcs | 5280 | 5280 | Nil | | |
| 104 | Plier - 1no | 200 | 200 | Nil | 17 | Entered in Geology Dept. stock register. |
| 105 | Pocket Stereoscope - 6nos | 4605 | 4605 | Nil | 17 | Entered in Electronics Dept. stock register |
| 106 | Rebound hammer, Labtest make - 1no | 12500 | 12500 | Nil | 17 | Entered in Geology Dept. |

| 107 | Sold. Icad - 1no | 100 | 100 | Nil | | stock register |
|-----|---|--------|--------|-----|----|---|
| 108 | Sold. Paste - 1no | 20 | 20 | Nil | | |
| 109 | Soldron 25w Ori - 1no | 350 | 350 | Nil | | |
| 110 | Student Microscope KB5 with LED LAFCO - 2pcs | 12400 | 12400 | Nil | 17 | Entered in Biochemistry Dept. stock register |
| 111 | Surface Tension Capillary Tube Appt. SYMAX - 2set | 5000 | 5000 | Nil | | F. J. J. J. J. J. |
| 112 | Tangent Galvanometer Brass MKOW - 2pcs | 3780 | 3780 | Nil | 17 | Entered in Physics Dept. stock register |
| 113 | TapariaScrwedriver Sets - 9sets | 1980 | 1980 | Nil | | Stock register |
| 114 | Test Tube Stand Poly 6 Holes (12pcs) TST - 1pkt | 380 | 380 | Nil | | |
| 115 | Tester Set - 1no | 240 | 240 | Nil | | Entered in |
| 116 | THERMOHYGROMETER with CLOCK HTC-1 RAVI - 4pcs | 5332 | 5332 | Nil | 17 | Botany and Biochemistry Dept. stock register |
| 117 | Thermometer – 20nos. | 3900 | 3900 | Nil | | |
| 118 | Thermometer 250'c (10pcs) LAFCO - 3nos | 6296 | 6296 | Nil | | |
| 119 | Transistor Characteristics Apparatus BRIJ - 1pc | 5500 | 5500 | Nil | 17 | Entered in Physics Dept. stock register |
| 120 | Trinocular Petrological Polarizing Microscope with Photographic attachment (with installation charge) – 1no | 241520 | 241520 | Nil | 17 | Entered in Geology Dept. |
| 121 | TrinocularPetrological Polarizing Microscope with Photographic attachment - 1no | 185000 | 185000 | Nil | | stock register |

| | TOTAL | 3149498 | 3149498 | Nil | | | |
|-----|---|---------|---------|-----|----|--|--|
| 128 | Young Modulus APPT. SYMAX - 2pcs | 3200 | 3200 | Nil | | | |
| 127 | Wire striper - nos | 1185 | 1185 | Nil | | Entered in Electronics Dept. stock register | |
| 126 | Wire Gauge with Frame TST - 9doz | 2565 | 2565 | Nil | | | |
| 125 | Water Bath Thermostat S/S PTP - 1pc | 8500 | 8500 | Nil | 17 | | |
| 124 | Voltage Stabilizer Char. Of Zener Diode with 4 meter – Model # Me 542 - 2nos | 4680 | 4680 | Nil | | | |
| 123 | Two Stage R-C Coupled Transistor Amplifier with Power Supply - 2nos | 7200 | 7200 | Nil | | | |
| 122 | Twin core wire - 35mt | 1060 | 1060 | Nil | | | |

2. COMPUTER & PERIPHERALS, PROJECTOR ETC.

| SI. No | Particulars of new equipment Purchase | Amount | Utilised | Balanc e | Page no. of Asset Register | Remark |
|-----------|---|--------|----------|-------------|----------------------------------|------------------------|
| 1 | 24 ports switch - 1no | 3850 | 3850 | Nil | | |
| 2 | 4 ports Hub - 1no | 615 | 615 | Nil | | |
| 3 | All in ine PC - 1no | 38900 | 38900 | Nil | 30 | Installed in different |
| 4 | Assembly Computer Set Core i3 4th Gen HA-H81M- S1 - 3sets | 81000 | 81000 | Nil | | rooms |
| 5 | Cabinet - 10nos | 24500 | 24500 | Nil | | |

| 6 | Canon digital camera SLR EOS 750D (18-55) lens+8GB card+Bag - 1no | 53000 | 53000 | Nil | | |
|----|---|--------|--------|-----|----|----------------------|
| 7 | Canon Printer - 1no | 13300 | 13300 | Nil | | |
| 8 | Ceiling Mount - 1no | 2500 | 2500 | Nil | | |
| 9 | Computer set - 10sets | 336000 | 336000 | Nil | | |
| 10 | CPU - 1no | 22650 | 22650 | Nil | | |
| 11 | Dongle - 3nos | 15807 | 15807 | Nil | | |
| 12 | HDMI Cable - 9nos | 7191 | 7191 | Nil | | |
| 13 | Keyboard Mouse - 8nos | 6100 | 6100 | Nil | | |
| 14 | Labtap - 3nos | 59400 | 59400 | Nil | 30 | For English Dept. |
| 15 | Lan Cable (Cat 6) - 1no | 0 | 0 | Nil | 20 | Installed in |
| 16 | Laptop - 1no | 75000 | 75000 | Nil | 30 | different rooms |
| 17 | Laser Printer - 1no | 8945 | 8945 | Nil | | |
| 18 | RAM - 10nos | 26500 | 26500 | Nil | | |
| 19 | Mira cast - 4nos | 9200 | 9200 | Nil | | |
| 20 | Monitor - 1no | 12500 | 12500 | Nil | 24 | Installed in |
| 21 | Motherboard - 10nos | 44500 | 44500 | Nil | 31 | different rooms |
| 22 | Mouse & Keyboard - 11nos | 14498 | 14498 | Nil | | |
| 23 | MS Office - 1no | 7600 | 7600 | Nil | | |
| 24 | Optical Drive - 10nos | 11500 | 11500 | Nil | | |

| 25 | PC CORE i3 4th Gen GA- H81M-S - 3nos | 83970 | 83970 | Nil |
|----|---|---------|---------|-----|
| 26 | Presenter - 2nos | 9590 | 9590 | Nil |
| 27 | Printer - 1no | 18000 | 18000 | Nil |
| 28 | Processor - 10nos | 85750 | 85750 | Nil |
| 29 | Projector Wiring & Installation | 5800 | 5800 | Nil |
| 30 | Projector - 15nos | 644170 | 644170 | Nil |
| 31 | Projector stand - 3nos | 7482 | 7482 | Nil |
| 32 | Samsung Toner - 1no | 200 | 200 | Nil |
| 33 | SMPS - 2nos | 1300 | 1300 | Nil |
| 34 | Spike Booster - 11nos | 5000 | 5000 | Nil |
| 35 | SSD - 10nos | 38850 | 38850 | Nil |
| 36 | UPS - 16nos | 32248 | 32248 | Nil |
| 37 | Wall Mount Kit - 3nos | 12000 | 12000 | Nil |
| | TOTAL | 1819416 | 1819416 | Nil |

3. OFFICE & CLASSROOM FURNITURES

| SI. No | Particulars of new equipment Purchase | Amount | Utilised | Balance | Page no. of Asset Register | Remark |
|-----------|---|--------|----------|---------|----------------------------------|---------------------------------|
| 1 | Almirah small KD - 4nos | 50292 | 50292 | Nil | | |
| 2 | Almirah small Storwel minor plain - 1no | 16462 | 16462 | Nil | 50 | Fitted in different rooms |
| 3 | AlmirahStorwel Big Plain + 1 Shelf - 1no | 21666 | 21666 | Nil | | 1001113 |

| 4 | AquaguardReviva - 1no | 14000 | 14000 | Nil | | |
|----|---|--------|--------|-----|----|--------------------|
| 5 | Barcode scanner - 1no | 3250 | 3250 | Nil | | |
| 6 | Book case 4 Door - 2nos | 53658 | 53658 | Nil | | |
| 7 | Carpet - 1roll | 10000 | 10000 | Nil | | |
| 8 | Class A, B, AB & Push Pull Amplifier – Model # Me 622 - 1no | 4275 | 4275 | Nil | | |
| 9 | Computer Table - 6nos | 39116 | 39116 | Nil | | |
| 10 | Double sided steel Bookrack maindoor - 1no | 25082 | 25082 | Nil | | |
| 11 | Plastic Chair - 12nos | 5700 | 5700 | Nil | | |
| 12 | Revolving Chair 5DOZ - 12nos | 66285 | 66285 | Nil | | |
| 13 | Almirah (sliding door) - 8nos | 206632 | 206632 | Nil | | |
| 14 | Study Table - 1no | 5600 | 5600 | Nil | | |
| 15 | Table - 2nos | 15500 | 15500 | Nil | | |
| 16 | Table 2'x6' h-30" - 10nos | 150000 | 150000 | Nil | F4 | Fitted in |
| 17 | Table T-32 - 1no | 11190 | 11190 | Nil | 51 | different rooms |
| 18 | White Board - 6nos | 33000 | 33000 | Nil | | |
| | TOTAL | 731708 | 731708 | Nil | | |

5. STATIONARIES

| SI. No. | Particulars of new equipment Purchase | Amount | Utilised | Balance | Page no. of Asset Register | Remark |
|------------|---------------------------------------|--------|----------|---------|----------------------------------|--------------------|
| 1 | Arch file - 4nos | 800 | 800 | Nil | | For RUSA Office |
| 2 | Cash book - 5pcs | 270 | 270 | Nil | | |
| 3 | Double clip file - 2pcs | 200 | 200 | Nil | 60 | |
| 4 | Ring file - 10nos | 1000 | 1000 | Nil | | |
| 5 | Ring file (A4 size) - 2pcs | 200 | 200 | Nil | | |
| | TOTAL | 2470 | 2470 | Nil | | |

6. SPORTS GOODS

| SI. No. | Particulars of new equipment Purchase | Amount | Utilised | Balance | Page no. of Asset Register | Remark |
|------------|---------------------------------------|--------|----------|---------|----------------------------------|--|
| 1 | Badminton jersey – 4pcs | 1200 | 1200 | Nil | | |
| 2 | Bag - 1no | 500 | 500 | Nil | | |
| 3 | Basketball (indoor) - 2nos | 2400 | 2400 | Nil | | Entered in Student Union stock register |
| 4 | Basketball (outdoor) - 2nos | 1400 | 1400 | Nil | - | |
| 5 | Basketball jersey - 1set | 13500 | 13500 | Nil | 66 | |
| 6 | Check clock - 2nos | 300 | 300 | Nil | 00 | |
| 7 | Chess clock - 1no | 2000 | 2000 | Nil | | |
| 8 | Chess jersey - 5pcs | 1500 | 1500 | Nil | _ | |
| 9 | Chess mat - 1no | 300 | 300 | Nil | | |
| 10 | Chess men - 2nos | 350 | 350 | Nil | | |

| 11 | Cock - 4cartoons | 7550 | 7550 | Nil | | |
|----|---------------------------------------|--------|--------|-----|----|----------------------|
| 12 | Discuss (girls) - 1no | 2200 | 2200 | Nil | | |
| 13 | Discuss (men) - 2nos | 2400 | 2400 | Nil | | |
| 14 | Football - 4nos | 5800 | 5800 | Nil | | |
| 15 | Football jersey - 1set | 18000 | 18000 | Nil | | |
| 16 | Guitar stand - 1no | 1350 | 1350 | Nil | | |
| 17 | Hertz Acoustic Guitar HW4142 - 1no | 11000 | 11000 | Nil | | |
| 18 | Hertz cable 10m - 1no | 1890 | 1890 | Nil | | |
| 19 | Javelin (girls) - 2nos | 2200 | 2200 | Nil | | |
| 20 | Javelin (men) - 2nos | 2400 | 2400 | Nil | | |
| 21 | Running jersey - 8pcs | 2400 | 2400 | Nil | | |
| 22 | Shot put (girls) - 1no | 1100 | 1100 | Nil | 67 | Entered in Student |
| 23 | Shot put (men) - 1no | 1200 | 1200 | Nil | 07 | Union stock register |
| 24 | TT jersey - 4pcs | 1200 | 1200 | Nil | | |
| 25 | Tug of war jersey - 9nos | 2700 | 2700 | Nil | | |
| 26 | Volleyball - 4nos | 4900 | 4900 | Nil | | |
| 27 | Volleyball jersey - 1set | 14100 | 14100 | Nil | | |
| 28 | Volleyball net - 1no | 2999 | 2999 | Nil | | |
| | TOTAL | 108839 | 108839 | Nil | | |

7. GLASSWARES

| SI. No. | Particulars of new equipment Purchase | Amount | Utilised | Balance | Page no. of Asset Register | Remark | | |
|------------|--|--------|----------|---------|----------------------------------|--|--|--|
| 1 | Beaker 1000ml – 5nos | 5244 | 5244 | Nil | | | | |
| 2 | Beaker 100ml Borosilicate Kaybee (Pkt of 10pcs) AMBAY – 11nos | 7823 | 7823 | Nil | | | | |
| 3 | Beaker 2000ml – 7nos | 3400 | 3400 | Nil | | | | |
| 4 | Beaker 250ml – 6nos | 1171 | 1171 | Nil | | Entered in Botany, | | |
| 5 | Beaker 500ml B/S Kaybee (set 0f 6) AMBAY – 11nos | 8630 | 8630 | Nil | 72 | Biochemistry, Zoology and Chemistry Depts. stock registers | | |
| 6 | Beaker 50ml Borosilicate Kaybee (Pkt of 10pcs) AMBAY - 1pkt | 715 | 715 | Nil | | | | |
| 7 | Conical Flask 250ml B/S Kaybee (10pcs) AMBAY - 2pkt | 2640 | 2640 | Nil | | | | |
| 8 | Conical Flask 50ml Borosilicate Kaybee AMB (10pcs) - | 3070 | 3070 | Nil | | | | |
| 9 | Cover Slip 18mm - 3box | 288 | 288 | Nil | | | | |
| 10 | Cover Slip 18x18 10gm Upen - 2pkt | 160 | 160 | Nil | | Entered in | | |
| 11 | Cover slip 22x22 10gm (set of 10) Upen - 2box | 1760 | 1760 | Nil | 72 | Botany and Zoology Depts. | | |
| 12 | Dropper Glass 6" (12pcs) TST - 4set | 720 | 720 | Nil | | stock registers | | |
| 13 | Funnel 3" (10pkt) Borosilicate - 1pkt | 1181 | 1181 | Nil | | | | |
| 14 | Glass Rod 1 meter 5mm - 10pcs | 220 | 220 | Nil | | Entered in Chemistry and | | |
| 15 | Glass Slide (Pkt of 50 Pcs) Upen - 2pkt | 160 | 160 | Nil | 72 | Biochemistry Depts. stock registers | | |

| | 1 | | 1 | | | 1 | | | |
|----|--|-------|-------|-----|----|---|--|--|--|
| 16 | Measuring Cylinder 100ml (2PCS) - 2nos | 1137 | 1137 | Nil | | | | | |
| 17 | Measuring Cylinder 10ml (2pcs) - 8nos | 4173 | 4173 | Nil | | | | | |
| 18 | Measuring Cylinder 250ml (set 0f 5) - 2pkt | 3950 | 3950 | Nil | | Entered in Botany, | | | |
| 19 | Measuring Cylinder 25ml (2SET) | 1194 | 1194 | Nil | 73 | Biochemistry, Zoology and Chemistry | | | |
| 20 | Measuring Cylinder 500ml (5pcs) - 1set | 6540 | 6540 | Nil | | Depts. stock registers | | | |
| 21 | Measuring Cylinder 50ml (2SET) - 8nos | 5349 | 5349 | Nil | | | | | |
| 22 | Measuring Cylinder 50ml - 1no | 323 | 323 | Nil | | | | | |
| 23 | Micropipette 10 – 100 uL - 7nos | 25020 | 25020 | Nil | _ | | | | |
| 24 | Micropipette 100 – 1000 uL - 2pcs | 7240 | 7240 | Nil | | Entered in Zoology and | | | |
| 25 | Micropipette 20 – 200 uL - 6nos | 21652 | 21652 | Nil | | | | | |
| 26 | Micropipette 5-50ul Microlit - 1pc | 3360 | 3360 | Nil | | | | | |
| 27 | Pipette 10ml Borosilicate (10pcs) - 4nos | 3279 | 3279 | Nil | | | | | |
| 28 | Pipette 20ml - 3nos | 1750 | 1750 | Nil | 73 | Biochemistry Depts. stock | | | |
| 29 | Pipette 25ml Borosilicate (10pcs) - 3nos | 2900 | 2900 | Nil | | registers | | | |
| 30 | Pipette 5ml Borosilicate (10pcs) - 4nos | 3089 | 3089 | Nil | | | | | |
| 31 | Pipette pump 25ml (Set of 10) - 2set | 10560 | 10560 | Nil | | | | | |
| 32 | Pippette pump 10ml(pkt of 6pcs) - 1pkt | 3168 | 3168 | Nil | | | | | |
| 33 | Test tube 15ml - 1box | 1200 | 1200 | Nil | 73 | Entered in Chemistry and | | | |

| 34 | Test tube 18x150 - 4set | 64 | 64 | Nil | | Biochemistry Depts. stock |
|----|--|--------|--------|-----|----|--|
| 35 | Test Tube 5" (15x125) (100pcs) - 4set | 4400 | 4400 | Nil | | registers |
| 36 | Volumetric Pipette 25ml - 1set | 2300 | 2300 | Nil | | |
| 37 | Volumetric pipette pump 2ml (10pcs) - 1set | 1630 | 1630 | Nil | 74 | Entered in Zoology and Botany Depts. |
| 38 | Volumetric pipette pump 5ml (10pcs) - 1set | 1510 | 1510 | Nil | | stock registers |
| | TOTAL | 153860 | 153860 | Nil | | |

8. BOOKS

| SI. No. | Particulars of new equipment Purchase | Amount | Utilised | Balance | Page no. of Asset Register | Remark |
|------------|---|--------|----------|---------|----------------------------------|--------------------|
| 1 | Advanced Microprocessor and Peripherals, - 5nos | 2650 | 2650 | Nil | | |
| 2 | Animal Physiology - 2 nos | 560 | 560 | Nil | | |
| 3 | Animal Physiology & Biochemistry - 10 nos | 14750 | 14750 | Nil | | |
| 4 | Applied Hydrogeology - 2 nos | 990 | 990 | Nil | | |
| 5 | Applied Zoology - 2 nos | 400 | 400 | Nil | | Entered in |
| 6 | Artificial Intelligence - 14 nos | 8710 | 8710 | Nil | 86 | College Library |
| 7 | Basic Electronic Solid State - 30 nos | 19500 | 19500 | Nil | | stock register |
| 8 | Basic Electronics - 30 nos | 19500 | 19500 | Nil | | |
| 9 | Beginning Visual Basic - 4 nos | 8022.7 | 8022.7 | Nil | | |
| 10 | Biochemistry - 2 nos | 500 | 500 | Nil | | |
| 11 | Calculus & Analytic Geometry - 10 nos | 5950 | 5950 | Nil | | |

| 12 | Chordate Zoology - 4 nos | 2300 | 2300 | Nil | | |
|----|---|---------|---------|-----|----|--------------------|
| 13 | Climatology - 10 nos | 3500 | 3500 | Nil | | |
| 14 | Computer Graphics - 1 nos | 456 | 456 | Nil | | |
| 15 | Current Handbook Of UGC Guidelines - 1 nos | 2250 | 2250 | Nil | | |
| 16 | Data Communication and Networking (SIE), - 2 nos | 1350 | 1350 | Nil | | |
| 17 | Data Mining : Concept and Techniques - 2 nos | 2127.52 | 2127.52 | Nil | | |
| 18 | Data Mining Techniques - 1 nos | 656 | 656 | Nil | | |
| 19 | Data Mining - 1 nos | 650 | 650 | Nil | | |
| 20 | Data Mining: Principles and Applications - 1 nos | 615 | 615 | Nil | | |
| 21 | Data Structure Through C - 2 nos | 496 | 496 | Nil | | |
| 22 | Data Structure Through C Language - 10 nos | 3300 | 3300 | Nil | | |
| 23 | Data Warehousing Fundamentals: - 5 nos | 2395 | 2395 | Nil | | |
| 24 | Data Warehousing in the Real World - 5 nos | 865 | 865 | Nil | | |
| 25 | Design & Analysis of Computer Algorithms - 4 nos | 2796 | 2796 | Nil | | Entered in |
| 26 | Dewy Decimal Classification - 1 nos | 32757 | 32757 | Nil | 87 | College Library |
| 27 | E-Commerce : Strategy, Technologies & Application - 2 nos | 1250 | 1250 | Nil | | stock register |
| 28 | Economic Geology - 5 nos | 1125 | 1125 | Nil | | |
| 29 | E-Governance: Concepts and Case Studies - 5 nos | 1500 | 1500 | Nil | | |
| 30 | Elements of Complex Analysis - 10 nos | 1850 | 1850 | Nil | | |
| 31 | Encyclopedia of UGC Twelfth Plan - 1 nos | 6750 | 6750 | Nil | | |

| | Endocrinology & | 4:2- | | | | |
|----|---|------|------|-----|----|------------------------------|
| 32 | Reproductive Biology - 5 nos | 1125 | 1125 | Nil | | |
| 33 | Engineering Mathematics (Vol-I) - 10 nos | 4090 | 4090 | Nil | | |
| 34 | Engineering Mathematics (Vol-II) - 10 nos | 5290 | 5290 | Nil | | |
| 35 | Environmental Biology - 10 nos | 1750 | 1750 | Nil | | |
| 36 | Fish & Fisheries - 2 nos | 950 | 950 | Nil | | |
| 37 | Fishes of Assam - 10 nos | 6950 | 6950 | Nil | | |
| 38 | Fundamentals of Remote Sensing - 2 nos | 990 | 990 | Nil | | |
| 39 | Groundwater Hydrology - 8 nos | 9560 | 9560 | Nil | | |
| 40 | Intro. To Automata Theory, Language & Computation - 4 nos | 2796 | 2796 | Nil | | |
| 41 | Intro. To Biostatistics - 10 nos | 2950 | 2950 | Nil | | |
| 42 | Intro. To Geochemistry - 2 nos | 2190 | 2190 | Nil | | |
| 43 | Intro. To Operation Research - 4 nos | 2796 | 2796 | Nil | | |
| 44 | Intro. to Probability (Vol- I) 2 nos - | 1338 | 1338 | Nil | | |
| 45 | Intro. to Probability (Vol- II) - 3 nos | 2037 | 2037 | Nil | | |
| 46 | Intro. To Real Analysis - 5 nos | 2595 | 2595 | Nil | | |
| 47 | Introduction to Data Mining with Case Studies - 1 nos | 495 | 495 | Nil | | Entered in College |
| 48 | Invertebrate Paleontology & Evolution - 2 nos | 1990 | 1990 | Nil | 88 | Library stock register |
| 49 | Manual of Practical Zoology : Chordates - 4 nos | 1400 | 1400 | Nil | | registei |

| | Manual of Practical | | | |
|----|---|----------|----------|-----|
| 50 | Zoology : Invertebrates - 10 nos | 3500 | 3500 | Nil |
| 51 | Mapping and Compilation Methods and Techniques - 2 nos | 700 | 700 | Nil |
| 52 | Mastering Microsoft Visual Basic - 4 nos | 12159.84 | 12159.84 | Nil |
| 53 | Microprocessor 8085 : Architecture, Programming and Interfacing - 4 nos | 512 | 512 | Nil |
| 54 | Microprocessor Architecture, Programming and Applications with the 8085 6/e - 1 nos | 296 | 296 | Nil |
| 55 | Mineral Processing - 3 nos | 1350 | 1350 | Nil |
| 56 | Modern Algebra - 10 nos | 2950 | 2950 | Nil |
| 57 | Modern T.B. of Zoology : Invertebrates - 10 nos | 6550 | 6550 | Nil |
| 58 | Multimedia, making it work - 2 nos | 758 | 758 | Nil |
| 59 | NarendraModi : A Rebel or Revolutionary - 1 nos | 1350 | 1350 | Nil |
| 60 | Network Security Essentials : Applications and Standards - 2 nos | 559 | 559 | Nil |
| 61 | Numerical Methods : Problems & Solution - 20 nos | 5500 | 5500 | Nil |
| 62 | Oceanography - 10 nos | 2500 | 2500 | Nil |
| 63 | Open GL Proramming Guide: The Official Guide to Learning Open GL, Version- 1 nos | 1437.9 | 1437.9 | Nil |
| 64 | Operational Amplifier as Differential Amplifier – 2 nos | 5382 | 5382 | Nil |

| | 1 | T | 1 | | 7 | 1 |
|----|--|-------|-------|-----|----|-----------------------------|
| 65 | Operational Amplifier as Inverting, Non Inverting, Summing & Difference Amplifier - 2 nos | 6840 | 6840 | Nil | | |
| 66 | Petrology of the Igneous Rocks - 4 nos | 1400 | 1400 | Nil | | |
| 67 | Petrology of the Igneous Rocks - 4 nos | 1000 | 1000 | Nil | | |
| 68 | Practical Zoology Volume 2 - 2 nos | 300 | 300 | Nil | | |
| 69 | Principles of Electronics - 30 nos | 17850 | 17850 | Nil | | |
| 70 | Principles of Engineering Geology &Geotechnics - 8 nos | 4125 | 4125 | Nil | | |
| 71 | Principles of Information Security - 4 nos | 1412 | 1412 | Nil | | |
| 72 | Principles of Paleontology - 5 nos | 1375 | 1375 | Nil | | F.J. and |
| 73 | Probability & Statistics - 10 nos | 3250 | 3250 | Nil | | Entered in |
| 74 | Remote Sensing & GIS - 3 nos | 2097 | 2097 | Nil | 89 | College Library stock |
| 75 | Remote Sensing & Image Interpretation - 2 nos | 1898 | 1898 | Nil | | register |
| 76 | Research Design: Qualitative, Quantitative and Mixed Methods Approaches - 1 nos | 450 | 450 | Nil | | |
| 77 | Sedimentology & Stratigraphy with CD ROM - 5 nos | 5475 | 5475 | Nil | | |
| 78 | Series & Parallel Resonance - 2 nos | 7200 | 7200 | Nil | | |
| 79 | Software Project Management - 2 nos | 1220 | 1220 | Nil | | |
| 80 | Software Project Management : Concise Study - 3 nos | 738 | 738 | Nil | | |

| 81 | Software Project Management: A Unified Framework - 5 nos | 1970 | 1970 | Nil | | |
|----|--|-------|-------|-----|----|--|
| 82 | Stefans Law of Radiation by using an In- candascent Lamp with Power - 2 nos | 14400 | 14400 | Nil | | |
| 83 | Study of BistableMultivibrator using Transistors – 1 nos | 2538 | 2538 | Nil | | |
| 84 | Study of Forbidden Energy Gap with P/S and 1 Digital Meter - 2 nos | 11200 | 11200 | Nil | | |
| 85 | Study of OP-AMP Mathematical Operations with Power Supply - 2 nos | 10600 | 10600 | Nil | | |
| 86 | Study of SCR Characteristics Apparatus – 1 nos | 3150 | 3150 | Nil | | |
| 87 | Study of Wein Bridge Oscillator usinf Transistor - 1 nos | 2241 | 2241 | Nil | | |
| 88 | Surveying (Vol-I) - 4 nos | 1980 | 1980 | Nil | | |
| 89 | Surveying (Vol-II) - 4 nos | 1980 | 1980 | Nil | | |
| 90 | System Simulation - 4 nos | 900 | 900 | Nil | | |
| 91 | Text Book of Biotechnology - 5 nos | 2500 | 2500 | Nil | | Entered |
| 92 | Text Book of Immunology &Immunotechnology - 10 nos | 3250 | 3250 | Nil | 90 | in College Library stock register |
| 93 | Text Book of Pathology - 2 nos | 3700 | 3700 | Nil | | 108/3001 |
| 94 | Text Book of Biotechnology - 5 nos | 2500 | 2500 | Nil | | |
| 95 | Tally ERP 9 in Simple steps - 10 nos | 2990 | 2990 | Nil | | |

| 96 | Theory of Computer Science - 10 nos | 2750 | 2750 | 1 | Nil | |
|-----|--|---------------|--------|-----|-----|--|
| 97 | Theory of Functions of a Complex Variable - 10 nos | 3950 | 3950 | ľ | Nil | |
| 98 | Trainer for Oscillators Circuit 1 nos | 5850 | 5850 | ١ | Nil | |
| 99 | Trainer for Transistors Multivibrator (Monostable) – 1 nos | 2583 | 2583 | ١ | Nil | |
| 100 | Trainer on Differentiator & Integrator – 2 nos | 5076 | 5076 | ١ | Nil | |
| 101 | Tuned Collector Oscillator – 1 nos | 3420 | 3420 | ١ | Nil | |
| 102 | Zoology for Degree Students - 10 nos | 7250 | 7250 | 1 | Nil | |
| 103 | Zooplankton - 10 nos | 18000 | 18000 | Nil | | |
| | TOTAL | 418725.9 6 | 418726 | Nil | | |

9. OTHER EQUIPMENT

| S | o Par equ | ticulars of new uipment Purchase | Amoun t | Utilised | Balance | Page no. of Asset Register | Remark |
|---|--------------|-------------------------------------|------------|----------|---------|----------------------------------|--------------------------------|
| 1 | L SP\ | / Power Plant | 188000 | 188000 | Nil | 110 | Installed in the main Building |

11. YEAR WISE EXPENDITURE UNDER UPGRADATION TO MODEL DEGREE COLLEGE GRANT

1. YEAR WISE EXPENDITURE UNDER UPGRADATION TO MODEL DEGREE COLLEGE GRANT

(Total Receipt – $1^{st} \& 2^{nd}$ installment = Rs. 3,00,00,000.00)

| Head | 2015-2016 (Rs.) | 2016-2017 (Rs.) | 2017-2018 (Rs.) | Total (Rs.) |
|------------------|--------------------|--------------------|--------------------|----------------|
| Purchase | 1 | 1,03,03,800 | 17,79,337 | 1,20,83,137 |
| New Construction | 25,00,000 | 44,55,167 | 2,51,243 | 72,06,410 |
| Renovation | - | 2,20,575 | 82,09,619 | 84,30,194 |
| Total | 25,00,000.00 | 1,49,79,542.00 | 102,40,199.00 | 2,77,19,741.00 |

2. Academic Building Block I, Durtlang Campus

a) Source of funding : SPA (Special Plan Assistant) Mizoram PWD

Vide Letter no. :

b) Amount sanctioned : 7.5 crore

c) Design & Drawn : Architech Branch, Mizoram PWD

d) Area : 2560 sq.m

e) No. of Floor : 4 (Basement, Ground, First & Second Floor)

f) Status : Ongoing

12. ABSTRACT OF EXPENDITURE OF FUNDS FROM UP-GRADATION/RENOVATION OF EXISTING COLLEGES TO MODEL DEGREE COLLEGES SCHEME

INCOME:

| Sl. No. | Amount | Remarks |
|---------|--------------------|--|
| 1 | Rs. 50,00,000.00 | Vide SPD(RUSA) Letter No. G.21017/1/2015-SPD(RUSA); Dated Aizawl the 6 th January, 2016 - Cheque No. 069488 of 06, 01, 2016 |
| _ | | Fund to be utilized as – Const. of Lab. building – Rs. |
| | | 40,00,000.00 Purchase of immediate needs – Rs. |
| | | 10,00,000.00 |
| | | Vide SPD(RUSA) Letter No. G.20015/1/2015-SPD(RUSA); |
| | | Dated Aizawl the 9 th November, 2016 |
| | | 2 nd Installment of Upgradation to Model Degree Colleges |
| 2 | Rs. 2,25,00,000.00 | Fund to be utilized as – |
| | | 35% for new construction |
| | | 35% for Upgradation/Renovation of existing college |
| | | 30% for purchase of equipments |
| | | Vide SPD(RUSA) Letter No. G.21015/1/2016-SPD(RUSA) –Pt |
| 3 | Rs. 25,00,000.00 | 1; Dated Aizawl the 3 rd February, 2017 |
| TOTAL | Rs. 3,00,00,000.00 | |

EXPENDITURE

HEAD OF ACCOUNT : PURCHASE

| SI. No | Sanction No.& Date B.13011/4/16- GZRSC(RUSA) | | Amount | Expenditure Head |
|-----------|--|------------------|--------|---|
| 1 | 443-444 | of dt. 19.4.2016 | 105703 | Books for Computer Science Department |
| 2 | 445-446 | of dt. 20.4.2016 | 56346 | Almirah, Table, R. Chair, White Board etc. |
| 3 | 447-448 | of dt. 25.4.2016 | 44341 | Chemicals, Lab. Equipments, White Board etc. |
| 4 | 455-456 | of dt.13.5.2016 | 3955 | Banner, Stamps, Cash Book, Sticker etc. |
| 5 | 451-452 | of dt. 25.4.2016 | 3845 | Lab. Equipments |
| 6 | 599-601 | of dt. 10.6.2016 | 827891 | Lab. Equipments and Chemicals |
| 7 | 648-650 | of dt. 31.1.2017 | 135000 | Microscope for Geology dept. (NARSHI Technologies) |
| 8 | 687-689 | of dt. 15.2.2017 | 664486 | Lab. Equipments and Chemicals for various Departments. (Green Labs.) |
| 9 | 701-704 | of dt. 7.2. 2017 | 2470 | Stationeries (D. Buanga & Sons) |
| 10 | 709-712 | of dt. 20.2.2017 | 400273 | Office furniture (SD Enterprise) |
| 11 | 713-716 | of dt. 24.2.2017 | 53000 | Canon Camera (Photo House, Aizawl) |
| 12 | 739-741 | of dt. 6.3.2017 | 14000 | Aquaguard (Blue Star, BEE ZET Ice Cream Industries, Aizawl) |
| 13 | 642-644 | of dt. 31.1.2017 | 75000 | Laptop and Peripherals (Datamation Services, Guwahati) |
| 14 | 705-708 | of dt. 15.2.2017 | 2434 | Chemicals (Genesis Enterprise, Aizawl) |
| 15 | 814-816 | of dt. 23.3.2017 | 19220 | White Boards and Marker (D. Buanga & Sons, Aizawl) |
| 16 | 817-819 | of dt. 23.3.2017 | 374000 | Computers and Projector (Sunflower Electronics, Aizawl) |
| 17 | 785-787 | of dt. 21.3.2017 | 94349 | Sport Goods (Tabitha Store, Aizawl) |
| 18 | 782-784 | of dt. 21.3.2017 | 14240 | Guitar (JIT Management, Aizawl) |
| 19 | 773-775 | of dt. 21.3.2017 | 92581 | Library Books (Eastern Book House, Guwahati) |
| 20 | 540-543 | of dt. 15.2.2016 | 88031 | Library Books (Eastern Book House, Guwahati) |
| 21 | 645-647 | of dt. 31.1.2017 | 186690 | Microscope for Geology Department (Central Scientific Instrument Corporation, Agra) |
| 22 | 544-546 15.12.201 | of dt. 16 | 100000 | Computer and Peripherals (RM Infotech, Aizawl) |
| 23 | 820-823 | of dt. 24.3.2017 | 21630 | Carpet & Curtain (MD &D Enterprises, Aizawl) |
| 24 | 776-778 | of dt. 21.3.2017 | 5600 | Office Table (The Norwood Builders, Aizawl) |
| 25 | 779-781 | of dt. 21.3.2017 | 5700 | Plastic Chairs (Bonton, Aizawl) |

| 26 | 547-549 of dt. 15.12.2016 | 200000 | Lab. Equipments (Green Labs.) |
|----|---------------------------------|-----------|---|
| 27 | 651-653 of dt. 31.1.2017 | 441000 | Projector etc. (RM Infotech, Aizawl) |
| 28 | 830-832 of dt. 24.3.2017 | 40902 | Electrical goods and Installation (Fancy Electronics, Aizawl) |
| 29 | 835-837 of dt. 28.3.2017 | 177680 | Lab. Equipments (Omega Electronics, Jaipur) |
| 30 | 609-611 of dt. 21.1.2017 | 188000 | SPV Power Plant (ZEDA, Aizawl) |
| 31 | 847-851 of dt. 29.3.2017 | 16800 | Computer Tables (The Norwood Builders, Aizawl) |
| 32 | 39-42 of dt. 24.4.2017 | 321643 | 10 nos. of Computers and Printer (RM Infotech, Aizawl) |
| 33 | 43-46 of dt. 24.4.2017 | 145098 | Lab. Equipments for Geology Department (Hindusthan Minerals and Natural History Specimens Supply Co., Kolkatta) |
| 34 | 216-218/17 of dt. 25.5.2017 | 12000 | Home Sc. Lab. Table (Joseph furnitures, Aizawl) |
| 35 | 219-221/7 of dt. 25.5.2017 | 493389 | Lab. Equipments (Green labs., Aizawl) |
| 36 | 222 -224/17 of dt. 25.5.2017 | 26100 | Books for Library (Eastern Book House, Guwahati) |
| 37 | 225-229/17 of dt. 25.5.2017 | 30420 | Geological Instruments and Equipments (Hindusthan Minerals and Natural History Specimens Supply Co., Kolkatta) |
| 38 | 228-230/17 of 5.6.2017 | 65305 | Laptap, Laser Printer etc. (RM Infotech, Aizawl) |
| 39 | 250-253/17 of dt. 5.6.2017 | 28682 | Steel Book Rack and Computer Table (SD Enterprise, Aizawl) |
| 40 | 264-267/17 of 7.6.2017 | 150000 | Home Sc. Lab Tables 10 nos. (Norwood builders, Aizawl) |
| 41 | 47-50 of 24.4.2017 | 22850 | Rebound Hammer & Digital TDS Meter (Zeal International N. Delhi) |
| 42 | 278-281/17 of 16.6.2017 | 106520 | Trinocular Petrological Polarising Microscope (Narshi Technologies, Kolkatta) |
| | TOTAL | 58,57,174 | |

HEAD: NEW CONSTRUCTION

| SI. No | SANCTION NO. | AMOUNT | EXPENDITURE HEAD |
|-----------|-----------------------------|---------|--|
| 1 | 427 of dt.9.2.2016 | 2500000 | To C. Lalsiama, Chairman, Mizoram |
| 2 | 113 of dt.25.5.2016 | 1500000 | Technocrats Ltd. For construction of Laboratory Building at Durtlang |
| 3 | 501-503 of dt.28.11.2016 | 4324000 | |

| | TOTAL | 130,55,043 |
|---|------------------------|------------|
| 5 | 14.6.2017 | 251243 |
| | 231-233/17 of | |
| 4 | 731-733 of dt.1.3.2017 | 4479800 |

HEAD: RENOVATION/UPGRADATION

| SI. No | SANCTION NO. | AMOUNT | EXPENDITURE HEAD |
|--------|------------------------------|-----------|---|
| 1 | 690-693 of dt.15.2.2017 | 10870 | Balu, Cement etc. (T. Dela) |
| 2 | 788-791 of dt21.3.2017 | 11050 | Plywood (Bee-Ess) |
| 3 | 792-794 of dt.21.3.2017 | 5600 | Cement, Balu (TluangTluangEnterptise) |
| 4 | 795-797 of dt.21.3.2017 | 50695 | Hardware (Sunrise Home Appliances) |
| 5 | 798-800 of dt.21.3.2017 | 78145 | Hardware (Orion) |
| 6 | 838-842 of dt.29.3.2017 | 8205 | Hardware (Orion) |
| 7 | 801-803 of dt.21.3.2017 | 54130 | Sawn Timber (CH.M Furniture works) |
| 8 | 827-829 of dt.24.3.2017 | 1880 | Building Material (Orion) |
| 9 | 65-68 of dt27.4.2017 | 300000 | Pu C. Lalrinmawia (approach road) |
| 10 | 62-64 of dt.27.4.2017 | 16019 | Building repair |
| 11 | 209-211/7 of dt.15.2.2017 | 3500000 | To Mizoram Technocrats for vertical extension of Girls Hostel |
| | TOTAL | 40,36,594 | |

GRAND TOTAL: Rs. 229,48,811.00

BALANCE : Rs. 70,51,189.00 (Rs. 300,00,000 - Rs. 229,48,811)