ANNUAL REPORT

FY 2073/74

CENTRAL DEPARTMENT OF GEOLOGY

(Estb. 1986)

August 2017 Volume 1

Annual Report of Central Department of Geology

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Executive Summary

Central Department of Geology (CDG) is publishing the Annual Report for the first time. The report comprises of various activities carried out by the department in the last year. Various activities were carried out towards the preparation of the report, like communicating with the graduated students to get information about their professional status, exploring the database for the list of admitted students in respective fiscal years, identifying the drop out students, listing the graduated students, inventory of the laboratory instruments present in the department etc. The lists of various activities carried out by the department like semester calendar preparation, course revision, guest lecture arrangement and other departmental events have been collected and included in the report. As part of the academic activities of the faculties, the research grants/ projects received and executed by the faculties and their last three year's publications have been collected.

The collection of the required data from various units of the department and faculties and put them in presentable format required great efforts.

We have been observing the increasing trend of student enrollment if compared to last ten years data. Even in last three years, the enrollment trend suggests great interest of the student's in pursuing masters' degree in geology. The enrollment in geology in the last fiscal year (2072/73 and 2073/74) shows slightly decreasing trend, which is due to the introduction of new masters' program in engineering geology for which the basic admission eligibility is also bachelors' degree in geology. If the total students of two programs are evaluated, the student enrollment situation is quite encouraging.

Since the number of enrolled student is not sufficient to evaluate the academic performance of the institution, we also evaluated the number of drop-outs and graduated students. There were very few (maximum 2 each year) drop-out students, who preferred to choose the universities abroad for their higher education. The number of graduated students among the enrolled is quite high. In this regards, the department and student can be evaluated as having high degree of performance. Among the graduated students, almost all are found to be involved in professional field, none of them being unemployed. Only few (1-2) each year changed their field and joined either other government administrative jobs or got involved in their own company related to geological discipline. The regular organization of guest lecture from national and international distinguished professors and professional is the means to familiarize the students on the recent advances in the field thereby uplifting their academic performance. CDG is quite aware on this fact and had organized several guest lectures during last year. Likewise, various workshop, interaction programs, exhibition etc. were other departmental activities in the last year.

The syllabus is supposed to be a dynamic one, which needs to be revised within a couple of years. In this regards, CDG revised the curriculum and updated to the international standards and practice. Likewise, introduction of semester calendar and its implementation is crucial for the successful execution of the semester. CDG has prepared the calendar and is being implemented.

The faculties receiving research grant is not so encouraging. This is the disappointing situation that the faculties involve at higher education are not having significant research grants. However, the publications of the faculties in last three years show some glimpses of hope that they are doing hard work to carry out research on their own, with over 60 publications in national and international journals. The data could be

a bit higher as complete publication list for all faculties couldn't be retrieved. Furthermore, the department is continuously annually publishing its own Bulletin for over 25 years that includes the peer reviewed research articles. This is another pride of our department that it gives high priority on the publication of research articles. The Bulletin of the Department of Geology, Tribhuvan University can be assessed online in the NepJol site.

The 14 faculties present at the department are quite low in comparison to the academic activities to be carried out for two masters' degree program presently running at the department. This is to be kept in mind that the course of study in each masters' degree programs require almost 2 months field work towards the completion of course. The limited faculties are also responsible to supervise around 70 students each year for their masters' thesis that also require around 1 month field work. This is the serious matter that the university should consider positively so that the academic performance would not be deteriorated due to the insufficient number of faculties.

CDG is aware of increasing the facilities with increased program and student numbers so that there won't be compromise to the academic excellence. Recently it constructed laboratory building and upgraded one class room into smart class room with provision of all the required facilities. Likewise, some instruments have been added to facilitate for increased number of experiments for learning and research purpose. The library that was established many years back consists of basic text books in printed form and significant numbers of books are available in digital form. These materials are still not sufficient to meet the requirement but it is serving significantly for the academic purpose.

The income expenses of the department shows that the department is moving towards self sustaining department, imposing less financial burden to the university for its regular activities. Student fee are being revised annually so as to maintain academic standard. The departmental account is being audited timely.

As part of the social obligation of academic institution, CDG is in close communication with the government organization and local authorities. It has extended hands to them to provide every support for the development related activities. Likewise, it is also actively involved towards generating awareness in various geological processes and resulting hazards. The work plan and budget for current fiscal year and next fiscal years is also presented in the report.

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1. Background

Central Department of Geology (CDG) is located at University Campus of Tribhuvan University in Kirtipur, Kathmandu. The main building of the department has 23 spacious and equipped rooms which are mainly used for administration office, faculty rooms and classrooms. There is separate building for the laboratories. CDG is playing a pivotal role in producing competitive geoscientists who are involved in various development and academic sectors in government, private and non-government sectors within the country. CDG has been offering international standard academic syllabus since its establishment in 1967. CDG offers not only theoretical and laboratory based teaching but also extensive fieldwork techniques, in order to build students' capacity to work in various fields, such as tunnels, roads, bridges, dams, mineral and mining industries, irrigation, disaster management, etc. Courses offered by CDG are designed to maximize employment prospects through acquisition of subject knowledge and practical skills.

The Department of Geology was established in 1967 in Tri-Chandra College conducting classes of B. Sc. in Geology under Tribhuvan University. M. Sc. in Geology was started from 1976. The Central Department of Geology was established in 1986 at Kirtipur Central Campus.

Till now, the CDG has produced about 800 students. The data between 1989 and 2011 exhibits fluctuating trends of the number of students registered in the CDG (Fig. 1). Of this figure, about 40 percent have been working in the Department of Mines and Geology, and the rest in the other field areas.

2. Academic Progress

2.1 Programs

Currently, Central Department of Geology is hosting two masters' degree program, namely M. Sc. in Geology and M. Sc. in Engineering Geology. M. Sc. Geology program started from 1976 and now 50 students can enroll in each academic year. However, M. Sc. Engineering Geology program started from FY 2073/73 and 24 students can enroll each year at Central Department of Geology, Kirtipur. The batch of M. Sc. Engineering Geology is going to be graduated at FY 2074/75.

2.2 Enrolment Trend

2.2.1 M. Sc. Geology

The student enrollment trend in M. Sc. Geology shows slightly decreasing in the last three years. However, the enrolled students are more in number as compared to the past decade with some fluctuation. The enrollment in M. Sc. Geology program in past three years is presented below in Figure 1. The female student number is rather low in comparison to the male students, however, in the FY 2072/73 there was increased number of female students. As far as the student from disadvantaged group is concerned, the number is less than 3% in each fiscal year.

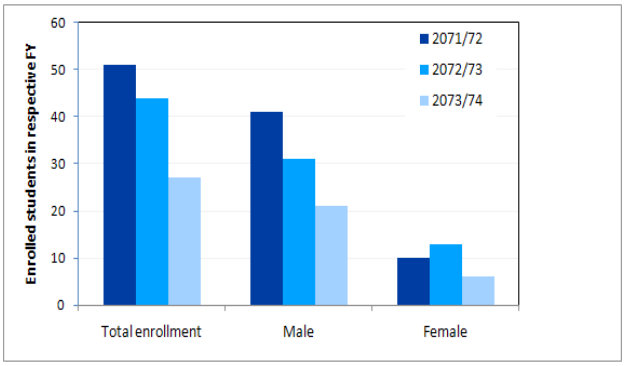

Figure 1: Student enrollment trend in M. Sc. Geology program

The decreased number of students in FY 2073/74 is the result of establishment of M. Sc. Engineering geology program and decreased number of students graduated from bachelor level. In view of additional students graduating from Birendra Campus (Bharatpur), Hattisar Campus (Dharan) and Prithvi Narayan Campus (Pokhara), the enrollment rate is expected to saturation level of the allocated quota for the M. Sc. Geology (50 students) .

2.2.2 M. Sc. Engineering Geology

The newly introduced M. Sc. engineering geology course is highly demanded one that can be observed through the enrollment trend fulfilling the allocate quota 24. There were 22 students in the first batch and 24 students in the second batch, fulfilling the allowed limit for admission (Figure 2). Like in M. Sc. Geology program, the female students are few (1 in first batch and 2 in second batch) in M. Sc. Engineering geology program.

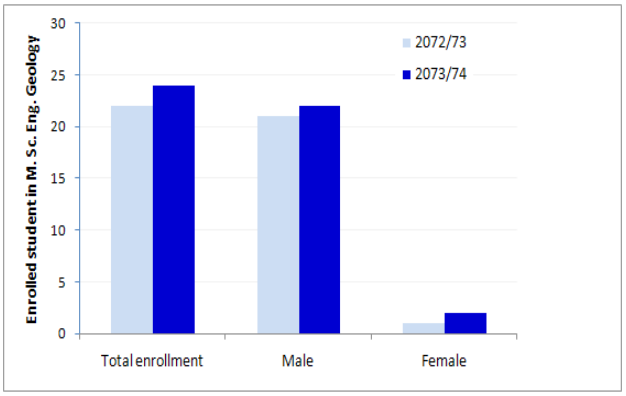

Figure 2: Student enrollment trend in M. Sc. Engineering Geology program

The name list of the students enrolled in M. Sc. Geology and M. Sc. Engineering geology is presented in Annex 1.

2.3 Pass/Graduation Rate Trend

The students' pass/graduation trend in the M. Sc. Geology program is more than 95%. The graduation trend in last three fiscal years is presented below in Figure 3. Among the enrolled student in each FY, the drop-out students do not exceed more than 3, which is mainly due to the higher education opportunity abroad. The trend shows that maximum numbers of students were graduated in fiscal year 2071/72. However, in general, the trend is increasing as compared to fiscal year 2070/71.

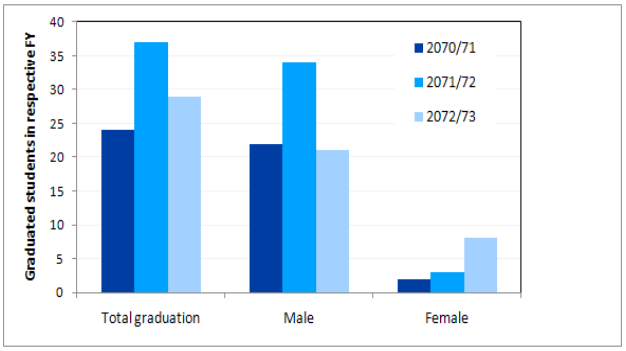

Figure 3: Student graduation trend in M. Sc. Geology program

The female graduation is low compared to the male students, which is directly related to the number of female student enrollment. The general trend shows that the number of graduated female student is in increasing trend in the last three fiscal years. The name list of the students graduated in M. Sc. Geology is presented in Annex 2. The first batch of M. Sc. Engineering geology is going to be graduated in the fiscal year 2074/75.

2.4 Job Placement of Graduates

The job placement rate of the graduating students is almost 100%, which is very encouraging fact that there is high demand of geoscientists (Figure 4). Almost all graduated students are working in Nepal. Among the graduated students in FY 2070/71, few moved to abroad for higher studies, as a result of slightly decreased job placement percentage in the fiscal year.

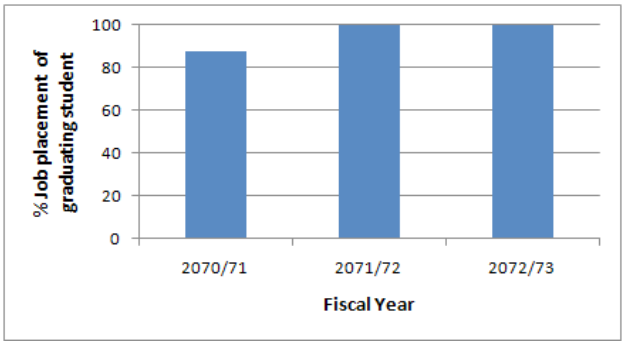

Figure 4: Job placement of graduating students

The above data shows that there is high scope for geologists from the employment perspective. The graduated students are working mostly in Ministries of Irrigation, Industry and Energy in government sector followed by hydropower, mining industries and consultancies in private sector as well as in universities in the engineering and science faculties. This is very satisfactory matter for the department that it is contributing to the nation development through producing the required manpower for the nation building process.

In M. Sc. Engineering Geology program, 22 and 24 students were enrolled in the FY 2072/73 and 2073/074, respectively. This indicates that the allocated quota (24) is almost fulfilled in the first and second batch, which is expected to continue in the coming fiscal years too.

2.5 Education Pedagogy

The course is designed in such a way that there will be close communication between the student and teacher. The teaching-learning activities are arranged in class-room as well as outside in the field so that the students will get knowledge by direct observation of the phenomenon, collecting data and analyzing to obtain results with enough interaction with the teacher.

The class-room teaching is divided into theoretical subject matter and related practical content are delivered in practical classes. In the theory class, the teacher delivers the course content through interactive lecturing (using projector to show power point presentation; white board; maps and chart display etc.). The students are given enough opportunity to address their query in the subject matter discussed. Likewise, group work are arranged in different topics, which the students have to study and present in the class thereby enhancing their learning attitude and sharing the information with group. The assignment given to them requires self exploration in the subject matter through books and internet material that will further widen their knowledge. The practical classes in respect course is the means to familiarize the knowledge gained in the theory classes through carrying out experiments, exercises and study of various models (hand specimen, thin section etc.) so that it will lead them towards executing professional work in the future. The students learn in practical classes very interactively at the presence of teacher.

The field work is another program to directly observe and study the natural phenomena leading towards development of different geological condition. The students learn various tools and techniques to acquire geological information leading to geological, engineering geological and hydrogeological mapping as well as understanding geological disaster and environmental condition of the area. The field work is extensive and students learn for 2 months (excluding M. Sc. Thesis field work) during the two year period. This will give them a unique opportunity to train themselves so that they could work independently after the graduation.

2.6 Scholarships and Freeships

The students are awarded through various scholarships in order to carry out research leading to their M. Sc. Dissertation. These scholarships are mainly from the TU CAS (Chinese Academy of Sciences) as well as NAST (Nepal Academy of Science and Technology).

Two students (one girl, one boy) get scholarship in each semester on the basis of merit. Besides scholarship, 15% of the students get freeship (tuition fee waiver). Freeship recipients are selected on inclusive basis (Women, Janajati, Madhesi, Disadvantaged groups etc.) based on the marks obtained in the previous semester exam.

2.7 Semester Calendar

The expected goal of semester system can't be achieved through the mindset and academic activities as per the annual system. In this regards, the Department has prepared academic calendar in order to complete the semester timely with effective academic activities. The class and field schedules are accordingly arranged for the Third Semester (2073) batch and First Semester (2073 batch). The calendar is attached in Annex 3.

2.8 Guest Lectures and Student Exchange Program

In order to familiarize the students with the state-of-the art in the subject matter, the department is arranging guest lecturers of the distinguished national and international scientists in the respective field of study. Recently, Dr. Netra Bhandary (Geotechnical engineer) and Prof. Hiroshi Yagi (Geomorphologist) both from Japan, Jorn Kruhl (structural geologist) from Germany, Prof. Harel Thomas (Petrologist) from India and Prof. Liang Bai from china delivered guest lectures to the M. Sc. Geology and Engineering Geology students. Likewise, Dr. Som Sapkota (Paleo-seismologist) from Department of Mines and Geology, Government of Nepal was also invited for the guest lecture.

In addition to the guest lecture, the students are also facilitated to expose in a broader academic environment through arranging exchange program. This year, five students of engineering geology received fellowship to visit Ehime University, Japan to attend two week long program covering lectures and laboratory works in the university and field visits in and around the Ehime city, Japan. The fellowship was under JST-Sakura Plan.

2.9 Course Revision

M. Sc. Geology course has been revised so as to make it of international standard and to address the national requirement. The first semester is offered as common course. However, from the second semester, the students are free to choose one among the three specializations, namely Applied geology, Hydrogeology and Mining geology & mineral exploration. The students will complete 70 credits in total in M. Sc. The course structure is presented in Annex 4.

2.10 Research Projects/Grants

The faculties of the department had applied for research project/grant in several institutions. Prof. Lalu Prasad Paudel received UGC faculty research grant on 2016 to carry out the research entitled "Geological Investigation of River Terraces and Assessment of Sinkhole and Subsidence Hazards in the Kusma-Baglung area, western Nepal'. Likewise, the NAST/ADB research project entitled "Marsyangdi River Basin Water Induced Disaster Triggered by Climate Change and its Prognostic Projection" received by Dr. Dinesh Pathak was successfully completed in 2016. Dozens of students got support in their M. Sc. Thesis field work through these projects and about six research papers have already been published in national and international peer reviewed journals as the outcome of the research works.

2.11 Faculty and Administrative Staff Faculties of the CDG

The faculties of the CDG are well exposed to international academic environment and most of them have completed higher studies from abroad and have made significant publications in national and international peer reviewed journals. The full time permanent faculties and part time faculties of the department are listed below in Table 1 and Table 2.

Table 1: Faculties of the department (Full time and Permanent)

S. N.	Name	Position	Qualification
1	Prakash Chandra Adhikary	Professor	Ph. D.
2	Lalu Prasad Paudel	Professor	Ph. D.
3	Suresh Das Shrestha	Professor	Ph. D.
4	Dinesh Pathak	Associate Professor	Ph. D.
5	Khum Narayan Paudayal	Associate Professor	Ph. D.
6	Naresh Kazi Tamrakar	Associate Professor	Ph. D.
7	Moti Lal Rijal	Associate Professor	Ph. D.
8	Ranjan Kumar Dahal	Associate Professor	Ph. D.
9	Kamalakanta Acharya	Lecturer	Ph. D.
10	Subesh Ghimire	Lecturer	Ph. D.
11	Sunil Kumar Dwivedi	Lecturer	Ph. D.
12	Ramita Bajracharya	Lecturer	M. Sc.
13	Kabi Raj Paudel	Lecturer	Ph. D.
14	Suman Panthee	Lecturer	M. Sc..

Table 2: Faculties of the department (Part time)

S. N.	Name	Qualification
1	Krishna Prasad Kaphle	M. Sc. (Retired Gov. First Class)
2	Nir Shakya	M. Sc. (Retired Gov. Second Class)
3	Agni Dhar Parajuli	Ph. D.
4	Suman Manandhar	Ph. D. (Engineering)
5	Manita Timilsina	Ph. D. (Engineering)
6	Dhundi Raj Pathak	Ph. D.
7	Prof. Kamal Bahadur Thapa	Ph. D. (Engineering)
8	Prdeep Paudyal	Ph. D.
9	Bhasker Khatiwada	M. Sc.
10	Suman Pandey	M. Sc.
11	Sunil Paudyal	M. E.
12	Prof. Ram Bahadur Sah	Ph. D.

Administrative Staff of the CDG

The following administrative staffs are actively supporting to conduct the academic and administrative activities of the Department (Table 3).

Table 3: Administrative staff of the department

S. N.	Name	Position
1	Indra Bahadur Thapa	Section officer
2	Sanat Dahal	Account officer
3	Sanak Raghubansi	Chief office assistant
4	Paru Lama	Chief office assistant
5	Pashupati KC	Lab Assistant
6	Rekha Bista	Chief office assistant
7	Raj Kumar Maharjan	Chief technical assistant
8	Manamaya Lama	Office assistant
9	Bimala Ghale	Office assistant
10	Sushila Nepali	Sweeper

2.12 Publication

Central Department of Geology is regularly publishing the Bulletin of the Department of Geology, Tribhuvan University (ISSN 1996-3491). This Bulletin is annually published and comprises of the peer-reviewed research finding in the field of geosciences. Eighteen issues of the bulletin have already been published till date. This is encouraging the researchers to publish their research findings.

In addition to the publication of the department, the faculties are publishing their research articles in various national and international journals. The publication of faculties in last three years is given in Annex 5.

2.13 Retirement and Resignation

There is no new faculty recruitment in the department, however, the faculties are either being retired or resigned. Prof. Dr. Ram Bahadur Saha got retired in 2015 while Prof. Dr. Megh Raj Dhital resigned on 2016.

2.14 Departmental Events

Joint Workshop

Joint workshop entitled "The human resource requirement of DMG and the syllabus of Tribhuvan University" was organized jointly by CDG and Department of Mines and geology (DMG) in 16 June 2016 at the Memorial Hall in Tribhuvan University. The workshop was attended by Former Minister of Industry Mr. Som Prasad Pandey; Professor Tirtha Khaniya, Vice-chancellor; Prof. Sudha Tripathi, Rector, Prof. Chirik Sobha Tamrakar, Dean, Institute of Science and Technology, Tribhuvan University. Likewise,

Workshop held at Tribhuvan University Memorial Hall (Former Minister of Industry Mr. S.P. Pandey at right and Vice Chancellor of TU Prof. Tirtha Khaniya at left)

Two working papers were presented in the workshop. Prof. Lalu Prasad Paudel, Head of CDG presented on "Present geology syllabus of TU, problems on human resource development and possible solution". Likewise, the second paper was presented by Mr. Rajendra Prasad Khanal, Director General of DMG on "Human Resource requirement of DMG". The workshop played a vital role in bridging the communication gap between the academic institution and the government organization.

CDG Visit by Minister

Former Minister of Industry Mr. Som Prasad Pandey visited the CDG and discussed on various possibilities to have collaborative works between the Government of Nepal and CDG. The importance of geology in nation building process was reiterated by the minister during the meeting.

Signing on MOU

Memorandum of Understanding (MOU) was signed by CDG-TU and Shimane University, Japan to establish collaborative initiatives in areas of mutual interest and benefit to both institutions and the respective communities. It also aims for collaborative research and faculty exchange between the two institutions.

Geological Exhibition

CDG is organizing Geological Exhibition with the support of Nepal Geological Students' Society. The latest exhibition was held at CDG on December 14-16, 2016 (Mangsir 29 to Poush 1, 2073) with the support from Nepal Geological Students' Society. The exhibition was inaugurated by Professor Sudha Tripathi, Rector of Tribhuvan University and attended by around 5000 high school students, science teachers and general public and learned various geological processes including mountain building, observed rocks and minerals and got knowledge on geological hazards and disasters.

Glimpse of inauguration of the Geological Exhibition

High school students attending the presentation on various geological phenomena

High school students observing at different stalls

The exhibition had great impact on the society to create awareness about the earthquake, geo-hazards and mineral resources of the country.

3. Physical Progress

3.1 Construction of New Building

The CDG is at growing stage with increased number of students and addition of new M. Sc. Program. Therefore, in order to enhance the academic performance, a new building has been constructed at the back side of existing building to provide better laboratory facility. This building is hosting the laboratory equipments as well as instruction class room.

High school students observing the posters, rocks, minerals

New building for laboratory

Internal partition inside laboratory building

Instruction room in laboratory building

Thin section preparation instrument

Material testing instrument

The detailed list of laboratory equipment available in the department is presented in the Annex 6.

3.2 Smart Class Room Preparation

In order to enhance the class room teaching-learning activities, the existing class room was upgraded to smart class room with the provision of podium, projector fixed at ceiling, automated system of projector screen control, new furniture to accommodate comfortably 50 persons, etc. This smart class room is used for invited guest lectures and also for regular class activities. The department is planning to convert other class rooms into smart class room in the coming fiscal year.

3.3 Educational Equipment

CDG is having basic educational equipment to conduct theory as well as practical classes. Every class-room is having power point projector, white board and board marker. Likewise, the practical classes are equipped with basic equipments to conduct experiment as envisaged by the course of study. The detailed list is provided in Annex 6. However, it is to be noted that these instruments require regular maintenance and also have to be replaced with the new model once their life expires.

3.4 Books/Journals/Reference Materials

The library in the CDG was established many years back. Basically, text books of various branches of geology, student's thesis, Bulletin of the department of Geology, some other journal publications and photocopy of some important books and literatures are kept in the department. One staff is managing the library and issues the book/material to the student as per requirement. In addition, significant numbers of books are available in digital form from which the students can produce printed copy. These materials are still not sufficient to meet the requirement but it is serving significantly for the academic purpose.

4. Financial Progress

4.1 Financial Resources/Income of Last Three Years

Self Generated Resources / Income

The income of last three years is presented in the Table 4. The self generated resources/income comprises of the student fee, which is increasing due to increased number of students and revised fee structure. The revised fee structure for M. Sc. Geology is NRs. 200,000 and M. Sc. Engineering Geology is NRs. 260,000 for two academic year. However, the students have to bear themselves the expenses incurred in the field work. The academic fee will be annually incremented by 10% as per the rules of Tribhuvan University.

Table 4: Income of the department in last three fiscal years

Income	Source	2070/71	2071/72	2072/73
Self generated	Student's fee	1,529,210	2,705,047	4,600,275
	Others	0	0	0
	Total	1,529,210	2,705,047	4,600,275
Grants from Govt. Sources	UGC	24,873,114	19,764,281	20,964,487
	Others	0	0	0
	Total Grants Received	24,873,114	19,764,281	20,964,487

In addition to above, the department receives salary for faculty and staff, which is not mentioned in the above table.

Grants from Government Sources

University Grants Commission contributes to the department as the major source of income from external sources (Table 4). The UGC grant was around 2.5 million rupee in fiscal year 2070/71 and remains around 2.0 million rupee in the fiscal years 2071/72 and 2072/73.

4.2 Expenditures Analysis of the Last Three Years

The expenditure scenario in the last three fiscal years is presented in Table 5. In total, it is gradually increasing. The recurrent expenses is in the range of 1.2 to 1.7 million rupee while the capital expenditure is greatly increasing, 1.5 million rupee in fiscal year 2070/70 to 7.2 million rupee in fiscal year 2072/73. This is clear evident that the CDG is working hard for the infrastructure development and managing equipments for enhancing the laboratory facilities.

Table 5: Expenditures of the department in last three fiscal years

Expenditure	Title	2070/71	2071/72	2072/73
Recurrent Expenditure	Salary	8,069,664	9,655,407	11,699,074
	Others	1,727,790	1,746,545	1,283,501
	Total Recurrent Expenditure	9,797,454	11,401,952	12,982,575
Capital Expenditure	Major Infrastructure Dev.	305,068	3,829,954	6,330,380
	Mino Infrastructure Dev.	388,109	445,608	949,190
	Equipments	726,988		
	Books	152,465	19,755	7,200
	Total Capital Expenditure	1,572,629	4,295,316	7,286,770

4.3 Audit Observations

The account of CDG regularly undergo through auditing process of internal and external evaluation (Annex 8). Since all the expenditures are made as per university/government rules and regulations, there is no serious concern raised by the auditors. The minor unclear notes made by the internal auditor are being rectified with clarification and supporting documents. Even in case of last fiscal year, final audit have been completed without any serious issues.

5. Social Progress

5.1 Geological Exhibition

The organization of Geological Exhibition with the support of Nepal Geological Students' Society is considered as great benefit to the school children and society members to understand the relationship between geological phenomena and the environment. It was realized that the exhibition had very positive impact on the society through creating awareness about the earthquake, geo-hazards and mineral resources of the country.

5.2 Geological Field Work

The department conducts one month compulsory field works each in M. Sc. first and third semesters. During the field work, student carry out different activities in the field sites to teach the local students and society about the importance of earth resources and natural hazards.

Students of 2071 batch are working in field (Beni-Jomsom route)

5.3 Support between CDG and Society

CDG is in dialogue with different municipalities towards preparation of integrated development master plan and resource estimation. At present, Phalebas Municipality of Parbat district is in close

communication for the preparation of master plan and a MOU will be signed in near future.

Likewise, it is also advocating for establishing geo-park for the promotion of geo-tourism and conservation of natural heritage. These activities are aimed towards fulfilling the social responsibility of the department and at the same time the department will also provide an opportunity to enhance the capability of the faculties in respective fields.

The above mentioned activities will be a milestone to exchange support between the CDG and the Society.

5.4 Issues and Challenges

There are several issues and challenges for the Central Department Geology that is directly related to the academic performance of the department and also to the graduates of geology. These can be grouped under the short-term and long term categories.

Short term challenges are listed below:

- provide adequate laboratory facilities to meet international standard
- conduct classes with the support of significant numbers of part-time teachers from whom expectation of responsibility and dedication as of full time permanent faculties can't be expected

The long term challenges can be listed as:

- Gradually retiring faculties and not recruiting new faculties lead the department towards virtual collapse
- Lack of research fund gradually deteriorate the research activity in the department thereby directly affecting the quality of teaching and research work of students
- If the development activities of the country is at slow pace, no new job will be created and the graduates may be unemployed leading to low student intake
- Political polarization in the university is also affecting the academic environment of the department.

In order to address the above mentioned challenges, there is little that the department at its own can mitigate and plan for addressing the issues and challenges without the support of Tribhuvan University and also Government's effort towards better education system. The only thing that the department and faculty members can do and are doing is to conduct the academic activities (teaching and research) with maximum effort and limited benefit.

5.5 Annual Work Plan and Budget

Various activities were planned for the current fiscal year. The work plan and budget of the current fiscal year (as per the Strategic Plan) is presented in Table 6. Likewise, the annual work plan and budget for next three fiscal years is presented in Table 7.

त्रिभुवन विश्वविद्यालय, भूगर्भशास्त्र केन्द्रीय विभाग,

आ.व. २०७४/०७५ को खरीद योजना (त्रि. वि. नियमित तथा आन्तरिक स्रोत बाट)

सि.नं..	विवरण	बजेट	श्रोत	समय	खरीद विधि	कैफियत
१.	विद्युतिय हाजिरीको सेवा शुल्क	३०,०००/-	नियमित आन्तरिक श्रोत	१ पटक	आ.व.२०७१/०७२ को स्वीकृत दरभाउ पत्रवालासँगको सम्झौता अनुसार सिधै	आ.व.को शुरुमा
२.	इन्टरनेट	५०,०००/-	नियमित आन्तरिक श्रोत	नियमित	नेपाल टेलिकमबाट सिधै	नियमित
३.	टेलिफोन	५०,०००/-	नियमित आन्तरिक श्रोत	नियमित	नेपाल टेलिकमबाट सिधै	नियमित
४.	स्टेशनरी	१,८०,०००/-	नियमित आन्तरिक श्रोत	२ पटक	मौजुदा सूचीबाट दरभाउपत्र मागगरी तथा सिधै	भाद्र र माघ
५.	सरसफाई	५०,०००/-	नियमित आन्तरिक श्रोत	२ पटक	मौजुदा सूचीबाट दरभाउपत्र मागगरी तथा सिधै	भाद्र र माघ
६.	कार्यालय उपकरण	१०,००,०००/-	नियमित आन्तरिक श्रोत	आवश्यकता अनुसार	मौजुदा सूचीबाट दरभाउ पत्र माग गरी	भाद्र र माघ
७.	पानी/ग्यास/चिनि चियापत्ती	१,८०,०००/-	नियमित आन्तरिक श्रोत	आवश्यकता अनुसार	दरभाउ पत्र माग गरी, बजारबाट सिधै	नियमित
८.	भण्डार गृह निमार्ण	२०,००,०००/-	नियमित आन्तरिक श्रोत			
९.	पुरानो भवन पछाडीको पहिलो ट्यारेशलाई व्यवस्थित गर्ने	१५,००,०००/-	नियमित आन्तरिक श्रोत			
१०.	विद्युतिय सामाग्री	५०,०००/-	नियमित आन्तरिक श्रोत	आवश्यकता अनुसार	मौजुदा सूचीबाट दरभाउ पत्र माग गरी	
	मर्मत सम्भार	१०,००,०००/-	नियमित आन्तरिक श्रोत	आवश्यकता अनुसार	मौजुदा सूचीबाट दरभाउ पत्र माग गरी तथा आवश्यकता अनुसार सिधै	
११	प्रयोगशाला उपकरण	५,००,०००/-	नियमित आन्तरिक श्रोत	आवश्यकता अनुसार	मौजुदा सूचीबाट दरभाउ पत्र माग गरी	
१२	केमिकल	१,००,०००/-	नियमित आन्तरिक श्रोत	आवश्यकता अनुसार	मौजुदा सूचीबाट दरभाउ पत्र माग गरी	
जम्मा						

Table 6a: Annual work plan and budget of the current fiscal year

त्रिभुवन विश्वविद्यालय, भूगर्भशास्त्र केन्द्रीय विभाग,

आ.व. २०७४/०७५ को खरीद योजना (विश्वविद्यालय अनुदान आयोग (DLI-2) अनुदान कार्यक्रम अन्तर्गत

सि.	विवरण	बजेट	श्रोत	समय	खरीद विधि	कैफियत
१	कक्षाकोठा स्तरियकरण गर्ने तथा फर्निसिङ्ग गर्ने (३ वटा कोठा)	२५,००,०००/-	त्रिभुवन विश्वविद्यालय उच्चशिक्षा सुधार परियोजना कार्यान्वयन कार्यालय, कीर्तिपुरको कार्यसम्पादान मूल्याङ्कनमा आधारमा (DLI-2) अनुदान कार्यक्रम अन्तर्गत	१ पटक	त्रि.वि., नियमानुसार बोलपत्र आवह्वान गरी	कक्षा नभएको समय मिलाई कार्य गराउने
२	जियोलोजीकल म्युजियम स्तरियकरण गर्ने Rock Selection (Field trip) Rock Transportation	 ३,००,०००/- ३,००,०००/-	,,	आवश्यकता अनुसार पटक पटक गरी	सम्वन्धित क्षेत्रको विज्ञ पठाई रक छनौट गर्ने तथा सोको लागि त्रि.वि. नियमानुसार दैनिक तथा भ्रमण भत्ता उपलव्ध गराउने । छनौट गरीएको रक ढुवानी गर्न सोहि स्थानबाट उपलव्ध ढुवानी साधन प्रयोग गरी ढुवानी गराउने	
३	जि आई एस ल्याबोटरी स्तरियकरण गर्ने	३,७०,०००/-	,,	१ पटक	त्रि.वि., नियमानुसार बोलपत्र आवह्वान गरी	
४	भौर्गभिक अध्ययन भ्रमण उपकरणहरु लाई स्तरियकरण गर्ने	१,३०,०००/-	,,	१ पटक	त्रि.वि., नियमानुसार बोलपत्र आवह्वान गरी	
जम्मा		३६,००,०००/-				

Table 6b: Annual work plan and budget of the current fiscal year

Table 7: Annual work plan and budget of the next fiscal years

S.N.	Work Item	Fiscal Years			Budget (NRs.)
		2075/76	2076/77	2077/78	
1	Design and Estimate, tendering and contract of new building construction				50000000.00
2	Preparation of hydrogeological Lab				2500000.00
3	Preparation of paleontological lab				2500000.00
4	Collection of specimen for outdoor rock museum				500000.00
5	Construction of platform and display of specimens				2000000.00
6	Revision of curriculum				500000.00
7	Enhancement and Publicaiton of Departmental bulletin				600000.00
8	Training for the administrative staff				300000.00
9	Landscaping				1500000.00
10	Gardening				1000000.00
11	Training for the administrative staff				300000.00
12	Library upgrading (purchase of books)				100000.00
13	Purchase of equipment for mineral testing lab				10000000.00
				Total	**71800000.00**

Projected Annual Work Plan and Budget of the Three Fiscal Years following the Current Fiscal Year (as per the Strategic Plan)

ANNEXES

Annex 1: Students Enrolled in M. Sc. Geology and Engineering Geology

Students Enrolled in M. Sc. Geology in Last 3 Fiscal Years

S. N.	FY 2071/72	FY 2072/73	FY 2073/74
1	Amit Shrestha	Ajay Babu Nayaju	Ananta Joshi
2	Anuma Shrestha	Anuj Ghimire	Anisha Dahal
3	Arjun Panday	Anupa Poudel	Anu Bhandari
4	Arzun Bhandari	Ayush Trital	Archana Adhikari
5	Ashish KC	Bhawana Niraula	Ashish Gautam
6	Balram bhandari	Bibek Giri	Binod Ghimire
7	Basanta Bhandari	Bipin Adhikari	Binod Karki
8	Basanta Rayamajhi	Bipin Kc	Dhurba Kandel
9	Bikash Phuyal	Deepak Sapkota	Dipesh Phulara
10	Bimal Bohara	Dipika Shah	Jeevan Adhikari
11	Chhabilal Pokhrel	Diwakar Lamichhane	Gyanendra Sapkota
12	Deepak Gautam	Durga Acharya	Kapil Karki
13	Deepak Gautam	Goma Khadka	Krishna Pandey
14	Dharma Raj Pandey	Hari Dangi	Kulmani Parajuli
15	Dinesh Sharma	Indra Lamsal	Manju Subedi
16	Drona Adhikari	Kabindra Nepal	Praveen Upadhyaya
17	Durga Khatiwada	Madan Neupane	Ravi Dhimal
18	Govinda Joshi	Mahendra Maharjan	Ravi Nepal
19	Gunanidhai Pokhrel	Manjari Acharya	Rishi Baral
20	Ishwar Adhikari	Nawaraj Parajuli	Rythum Rai
21	Ishwor Gyawali	Neelam Maharjan	Sadikshya Mainali
22	Jharendra K.C.	Niraj Regmi	Santosh Khanal
23	Jinita Shakya	Pashupati Gaire	Sashmit Adhikari
24	Jivan Bhusal	Prakash Aryal	Suman Roka
25	Kamal Kafle	Prakash Luitel	Suman Shrestha
26	Karishma Khadka	Prama Bhatta	Sunil Lamsal
27	Keshav Shrestha	Rabin Dhakal	Sushmita Luitel
28	Khagendra Dahal	Ravi Acharya	Vikram Shrestha
29	Kiran Dahal	Rosni Bc	
30	Kiran Pandey	Sandeep Thapa	
31	Lokmani Oli	Sanjay Maharjan	
32	Manish Shrestha	Sanju Khatri	
33	Mariya Maharjan	Santosh Pathak	
34	Menuka Gautam	Saurav Khanal	
35	Navin Thapa	Shanti Acharya	
36	Nawraj Sapkota	Shashi Tamang	
37	Pramod Adhikari	Shraddha Dhakal	
38	Prushotam Adhakari	Srijana Poudel	
39	Purushottam Neupane	Subarna Dhakal	
40	Rajkumar Lama	Subas Gaudel	
41	Rasila Koirala	Subit Chhetri	

S. N.	FY 2071/72	FY 2072/73	FY 2073/74
42	Reshma Poudel	Suraj Giri	
43	Ronash Adhikari	Surya Kandel	
44	Sameer Poudel	Sushant Sapkota	
45	Sanjeew Bhujel	Yamuna Subedi	
46	Sarmila Paudyal		
47	Shahid Muslim		
48	Shreekrishna Karki		
49	Sima Humagain		
50	Ujjwal Acharya		
51	Uttam Lamsal		

Students Enrolled in M. Sc. Engineering Geology in Last 2 Fiscal Years

S. N.	FY 2072/73	FY 2073/74
1	Aditya Dhungana	Achyut Nepal
2	Ajay Chapagain	Adesh Budhathoki
3	Arun Dhoj Adhikari	Ajita Bhandari
4	Birat Shrestha	Anjan Tamang
5	Deepak Ghimire	Ashis Acharya
6	Harichandra Budathoki	Badri Bhadur Budhathoki
7	Jyoti Khatiwada	Bal Bahadur Tamang
8	Kabita Maharjan	Bishwas Bhandari
9	Milan Bhusal	Gyanu Bhandari
10	Milan Kumar Rai	Kewal Thapa
11	Nabin B.K	Milan Kharal
12	Nabin Sapkota	Nawa Raj Dhakal
13	Nitesh Subedi	Prakash Dhungana
14	Prakash Khanal	Rabin Rimal
15	Puspa Raj Bhatta	Rajan Mahat
16	Roman Gantawa	Rajen Bhusal
17	Sanjay Rijal	Rupandra Maharjan
18	Shankar Pantha	Sanjay pd. Khushwaha
19	Suman Kumar Dulal	Sanjeev Karki
20	Suresh Adhikari	Sujan Karki
21	Tek Narayan Joshi	Sujan Neupane
22	Yugal Paudel	Sunil Man Singh
23		Sunny Karmacharya
24		Tara Prakash Silwal

Annex 2: Students Graduated in M. Sc. Geology in Last 3 Fiscal Years

SN	FY 2070/71	FY 2071/72	FY 2072/73
1	Ajit Sapkota	Bikash Devendra Thakur	Amrit Dhakal
2	Amit Neupane	Pramod Pokhrel	Anupama Dhakal
3	Anup Shrestha	Dhan Bahadur Khattri	Bhim Bahadur Rana
4	Arpan Parajuli	Kumar Timilsina	Biddya Regmi
5	Ashim Rijal	Prakash Pokhrel	Bijaya Man Shakya
6	Basanta Balami	Bhaskar Khatiwada	Bishnu Upadhayaya
7	Bharat Prasad Bhandari	Srijana Paudel	Govinda Pathak
8	Chitra Bikram Tandan	Bijaya Kumar Thapa	Hari Prasad Khanal
9	Deepak Basnet	Mahesh Raut	Jharana Khanal
10	Gopal Bhandari	Lokendra Pandeya	Kamal Karki
11	Jaya Laxmi Singh	Ram Sundar Pyakurel	Keshav Jaisi
12	Kapil Maharjan	Kamal Pande	Lekh Prasad Bhatta
13	Kiran Kumar Chaudhary	Sudarshan Sapkota	Madhu Neupane
14	Krishna Kumar Bista	Milan Magar	Manoj Bista
15	Mahesh Khanal	Santosh Silwal	Nayan Pokhrel
16	Nabin Parajuli	Niraj Bal Tamang	Nikita Tandukar
17	Pratap Bohara	Ishwar Thapa	Om Kumar Khadka
18	Prayag Maharjan	Subash Acharya	Prabin Chandra K.C
19	Rajendra Acharya	Champak Babu Silwal	Prabin Tumbapo
20	Sabina Khattri	Manoj Khatiwada	Prakash Gyawali
21	Shiva Raj Bhandari	Anuj Khanal	Pusha Raj Dahal
22	Suman Pande	Bikash Ranabhat	Rajendra Budathoki
23	Yogendra Mohan Shrestha	Kapil Dev Phuyal	Ram Datt Joshi
24	Yubaraj Lamichhane	Binod Nagarkoti	Sabin Sharma
25		Swarup Singh Karki	Saroj Niraula
26		Amar Singh Rai	Sudip Lamsal
27		Bima Sahi	Sunil Shanker Pradhananga
28		Alina Karki	Sunita Bhattarai
29		Deepak Dahal	Sunu Dawadi
30		Manish Singh Chaudhary	
31		Byapak Yagol	
32		Ujjwal Kumar Maske	
33		Niraj Singh Thakuri	
34		Sunil Bikram Thakuri	
35		Arjun Bhattarai	
36		Surya Sekhar Khadka	
37		Shrawan Shakya	

Annex 3: Semester Calendar (Winter Session – 2074)

CENTRAL DEPARTMENT OF GEOLOGY

WINTER SEMESTER CALANDER (2074)

Bhadra				Aswin			Kartik				Magsir				Poush			Magh			Falgun			Chaitra				Baisakh	
Date	Day	Activity		Date			Date				Date				Date			Date			Date			Date				Date	
1	Thu			1	Sun		1	Wed			1	Fri		IV Sem (Th. +Pr.) Classes	1	Sat		1	Mon		1	Tue		1	Thu		Final Exam Routine	Assessment and Practical Exam Result Preparation	1	Sat	(SEMESTER BREAK for Teachers)
2	Fri			2	Mon		2	Thu			2	Sat			2	Sun	Practical Exams of I and III Sem	2	Tue		2	Wed		2	Fri		Geo. 651/661/671		2	Sun	
3	Sat			3	Tue		3	Fri			3	sun			3	Mon		3	Wed		3	Thu		3	Sat				3	Mon	
4	Sun			4	Wed		4	Sat			4	Mon			4	Tue		4	Thu		4	Fri		4	Sun	Final Exam Routine	Geo. 652/662/672		4	Tue	
5	Mon			5	Thu		5	Sun	Preparation for Fieldwork		5	Tue			5	Wed		5	Fri		5	Sat		5	Mon	Geo. 551/561/571	Geo. 681/682/683/684/685		5	Wed	
6	Tue			6	Fri		6	Mon	I Sem Field work	III Sem Field work	6	Wed			6	Thu		6	Sat	Thesis proposal preparation and Submission by IV Sem (2072 Batch)	6	sun		6	Tue		Geo. 631/632/633/634/635		6	Thu	
7	Wed			7	Sat		7	Tue			7	Thu			7	Fri		7	Sun		7	Mon		7	Wed	Geo. 552/562/572			7	Fri	
8	Thu			8	Sun		8	Wed			8	Fri			8	Sat		8	Mon		8	Tue		8	Thu		Geo. 681/682/683/684/685		8	Sat	
9	Fri			9	Mon		9	Thu			9	Sat			9	Sun		9	Tue		9	Wed		9	Fri	Geo. 553/563/573	(SEMESTER BREAK for Student)		9	Sun	I and III Sem Class Start
10	Sat			10	Tue		10	Fri			10	sun			10	Mon		10	Wed		10	Thu		10	Sat						
11	sun			11	Wed		11	Sat			11	Mon			11	Tue		11	Thu		11	Fri		11	Sun						
12	Mon			12	Thu		12	Sun			12	Tue			12	Wed		12	Fri		12	Sat		12	Mon	Geo. 554/564/574					
13	Tue			13	Fri		13	Mon			13	Wed			13	Thu		13	Sat		13	sun		13	Tue						
14	Wed			14	Sat		14	Tue			14	Thu			14	Fri		14	Sun		14	Mon		14	Wed	Geo. 555/565/575					
15	Thu			15	Sun		15	Wed			15	Fri			15	Sat		15	Mon		15	Tue		15	Thu						
16	Fri			16	Mon		16	Thu			16	Sat			16	Sun		16	Tue		16	Wed		16	Fri						
17	Sat			17	Tue		17	Fri			17	sun			17	Mon		17	Wed		17	Thu		17	Sat						
18	sun			18	Wed		18	Sat			18	Mon			18	Tue		18	Thu		18	Fri		18	Sun						
19	Mon			19	Thu		19	Sun			19	Tue			19	Wed		19	Fri		19	Sat		19	Mon						
20	Tue			20	Fri		20	Mon			20	Wed			20	Thu		20	Sat		20	sun	Final Assessment Exam	20	Tue						
21	Wed			21	Sat		21	Tue			21	Thu			21	Fri		21	Sun		21	Mon		21	Wed						
22	Thu			22	Sun		22	Wed			22	Fri			22	Sat		22	Mon		22	Tue		22	Thu						
23	Fri			23	Mon		23	Thu			23	Sat	Sun	Mon	23	Sun		23	Tue		23	Wed		23	Fri						
24	Sat			24	Tue		24	Fri			24	sun	Thesis Defense (2071 Batch and Older batch)		24	Mon		24	Wed		24	Thu		24	Sat						
25	sun			25	Wed		25	Sat			25	Mon			25	Tue		25	Thu		25	Fri	PRACTICAL EXAMS (II AND IV Sem)	25	Sun						
26	Mon			26	Thu		26	Sun		IV Sem (Th.+Pr.) Classes	26	Tue			26	Wed		26	Fri		26	Sat		26	Mon						
27	Tue	II Sem (Th.+Pr.) Classes	Preparation for fieldwork	27	Fri		27	Mon			27	Wed			27	Thu	IV Sem (T(Th.+Pr.) Classes	27	Sat		27	sun		27	Tue						
28	Wed		III Sem Fieldwork	28	Sat		28	Tue			28	Thu			28	Fri		28	Sun		28	Mon		28	Wed						
29	Thu			29	Sun		29	Wed			29	Fri			29	Sat		29	Mon		29	Tue		29	Thu						
30	Fri			30	Mon		30	Thu							30	Sun					30	Wed		30	Fri						
31	Sat			31	Tue																									

Annex 4: M. Sc. Geology Revised Course Structure

Semester I

S. N.	Course Code	Course Name	Credits	Marks
1	Geo.511	Igneous and Metamorphic Petrogenesis and Mineralogy	4	100
2	Geo.512	Stratigraphy and Paleontology	4	100
3	Geo.513	Structural Geology and Geology of Nepal	4	100
4	Geo.514	Sedimentology	2	50
5	Geo.515	Practical of Geo.511	2	50
6	Geo.516	Practical of Geo.512	2	50
7	Geo.517	Practical of Geo.513	2	50
8	Geo.518	Practical of Geo.514	1	25
9	Geo.519	Field Work	4	100
		Total	**25**	**625**

Semester II: Applied Geology

S. N.	Course Code	Course Name	Credits	Marks
1	Geo.551	Exploration Geophysics and Geochemistry	4	100
2	Geo.552	Remote Sensing and GIS	2	50
3	Geo.553	Geology of Mineral Deposits	2	50
4	Geo.554	Hydrology and Hydrogeology	2	50
5	Geo.555	Environmental Sedimentology	2	50
6	Geo.556	Practical of Geo.551	2	50
7	Geo.557	Practical of Geo.552 and Geo.553	2	50
8	Geo.558	Practical of Geo.554 and Geo.555	2	50
		Total	**18**	**450**

Semester II: Hydrogeology

S. N.	Course Code	Course Name	Credits	Marks
1	Geo.561	Exploration Geophysics and Geochemistry	4	100
2	Geo.562	Remote Sensing and GIS	2	50
3	Geo.563	Hydrogeochemistry	2	50
4	Geo.564	Hydrology and Hydrogeology	2	50
5	Geo.565	Groundwater Hydrology	2	50
6	Geo.566	Practical of Geo.561	2	50
7	Geo.567	Practical of Geo.562 and Geo.563	2	50
8	Geo.568	Practical of Geo.564 and Geo.565	2	50
		Total	**18**	**450**

Semester II: Mining Geology and Mineral Exploitation

S. N.	Course Code	Course Name	Credits	Marks
1	Geo.571	Exploration Geophysics and Geochemistry	4	100
2	Geo.572	Remote Sensing and GIS	2	50
3	Geo.573	Geology of Mineral Deposits	2	50
4	Geo.574	Exploration Geology	2	50
5	Geo.575	Mining Geology	2	50
6	Geo.576	Practical of Geo.571	2	50
7	Geo.577	Practical of Geo.572 and Geo.573	2	50
8	Geo.578	Practical of Geo.574 and Geo.575	2	50
		Total	**18**	**450**

Semester III: Applied Geology

S. N.	Course Code	Course Name	Credits	Marks
1	Geo.611	Rock Slope Engineering and Geohazard Management	2	50
2	Geo.612	Paleoclimate and Quaternary Geology	2	50
3	Geo.613	Basin Analysis	2	50
4	Geo.614	Engineering Geology	2	50
5	Geo.615	Practical of Geo.611 and Geo.612	2	50
6	Geo.616	Practical of Geo.613 and Geo.614	2	50
7	Geo.617	Field Work	4	100
		Total	**16**	**400**

Semester III: Hydrogeology

S. N.	Course Code	Course Name	Credits	Marks
1	Geo.621	Groundwater Modeling	2	50
2	Geo.622	Groundwater Basin Investigation and Management	2	50
3	Geo.623	Hydrogeological investigation	2	50
4	Geo.624	Mountain Hydrogeology	2	50
5	Geo.625	Practical of Geo.621 and Geo.622	2	50
6	Geo.626	Practical of Geo.623 and Geo.624	2	50
7	Geo.628	Field work	4	100
		Total	**16**	**400**

Semester III: Mining Geology and Mineral Exploitation

S. N.	Course Code	Course Name	Credits	Marks
1	Geo.631	Rock Engineering	2	50
2	Geo.632	Mine Surveying and Mine Development	2	50
3	Geo.633	Drilling and Blasting	2	50
4	Geo.634	Mining Methods, Mining Machinery and Transportation	2	50
5	Geo.635	Practical of Geo.631	2	50
6	Geo.636	Practical of Geo.632	2	50
7	Geo.638	Field Work	4	100
		Total	**16**	**400**

Semester IV: Applied Geology

S. N.	Course Code	Course Name	Credits	Marks
1	Geo.651	Techniques of Structural Analysis	2	50
2	Geo.652	Applied Geomorphology and Neotectonics	2	50
3	Geo.653	Global Tectonics and Seismology	2	50
4	Geo.654	Practical of Geo.651 and Geo.652	1	25
5	Geo.655	Dissertation	4	100
		Total	**11**	**275**

Semester IV: Hydrogeology

S. N.	Course Code	Course Name	Credits	Marks
1	Geo.661	Groundwater Resources and Climate Change	2	50
2	Geo.662	Groundwater Exploration	2	50
3	Geo.663	Engineering Geology	2	50
4	Geo.664	Practical of Geo.662 and Geo.663	1	25
5	Geo.665	Dissertation	4	100
		Total	**11**	**275**

Semester IV: Mining Geology and Mineral Exploitation

S. N.	Course Code	Course Name	Credits	Marks
1	Geo.671	Mine Design, Planning and Management	2	50
2	Geo.672	Mineral Economics	2	50
3	Geo.673	Hydrogeology and Mine Hazard	2	50
4	Geo.674	Practical of Geo.671	1	25
5	Geo.675	Dissertation	4	100
		Total	**11**	**275**

Annex 5: Publications of the Faculties of CDG in Last Three Years

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Annex 6: Instruments list

S. N.	Instrument	S. N.	Instrument
1	Binocular ore with reflected light	41	Current meter
2	Binocular zoom microscope	42	Permeability meter
3	Brunton compass	43	Cone penetrometer
4	Consolidation apparatus	44	water bath
5	Clinometer	45	Aggregate crushing valve apparatus
6	Colorimeter	46	Multimedia projector
7	Conductivity	47	Multifunction (3-1)
8	Centrifuge	48	Abney level
9	Compaction test standard	49	Manual compression testing machine
10	California bearing test	50	Slake durability test apparatus
11	Digital walker (Pedameter)	51	Gem refractometer
12	Distillation plant	52	Spectroscope
13	Digital scale	53	Chelsea filter
14	Digital curvimeter	54	Hardness pencil
15	Hot Plate	55	LED and UV magnifier
16	Level	56	Polariscope
17	Rammer	57	Dichroscope
18	Map measuring compass II	58	Point load testing
19	Magnetometer	59	Losangeles abrasion testing machine
20	Microscopic camera	60	Aggregate impact value apparatus
21	Overhead projector	61	X-ray machine
22	Penetrometer	62	Sieve shaker
23	Olympus polarising microscope	63	Drilling machine
24	Olympus research microscope	64	Triaxial testing machine
25	Olympus expanometer (PM5)	65	Direct shear testing
26	Oven	66	Smidth hammer
27	pH meter	67	Water quality testing machine
28	Resistivity meter	68	GPR
29	Raymer refractometer	69	Seismograph
30	Rain gauge	70	Terrameter with booster
31	Rock cutting machine	71	T- VLF
32	Rotary thin section grinding with meter	72	Seiscal
33	Range finder 620 series	73	Plotter
34	Swell test apparatus hand operated	74	Magnetometer
35	Sand passing cylinder	75	Total station
36	Survey meter	76	Direct shear testing & data acquisition system
37	Stereoscope	77	Digital triaxial and CBR testing system
38	Spectrophotometer	78	Unconfined compressive test for rock
39	Slide projection	79	Micrometer digital
40	Soil trimmer	80	Fine rock cutting machine

Annex 7: Photographs of some Instruments

Electrical survey instrument

Seismic survey instrument

Rock cutter and thin section preparation Instrument.

Fine rock cutter instrument

Direct shear test apparatus

Sieve shaker

Oven to dry samples

Topographical survey instrument (Total station)

Annex 8: Audit Reports of Last Three Fiscal Years

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महालेखा परीक्षकको कार्यालय नेपाल २०१६

पत्र संख्या: ०७२।७३

च.नं.:- ९६९

मिति २०७२।११।२७

विषय:– लेखापरीक्षणको प्रारम्भिक प्रतिवेदन ।

त्रिभुवन विश्वविद्यालय, भूगर्भशास्त्र केन्द्रीय विभाग
कीर्तिपुर, काठमाडौं

महाशय,

त्यस विभागको आ.व. २०७१।७२ को विनियोजन/राजश्व/धरौटी समेतको आर्थिक विवरण तथा सो संग सम्बन्धित पेश भए सम्मको लेखाको लेखापरीक्षण सम्पन्न गरि तयार गरिएको पाना ४ (चार) आर्थिक प्रशासन ऐन, २०५५ को दफा १९(१) बमोजिम ३५ दिन भित्र असुल फछ्यौट भएको प्रमाण वा बेरुजु कायम गर्न नपर्ने कुनै कारण भए प्रमाण सहितको जवाफ पठाउनु हुन अनुरोध गर्दछु । समयमा फछ्यौटको प्रमाण वा जवाफ प्राप्त नभएमा संलग्न व्यहोरा महालेखा परीक्षकको वार्षिक अन्तिमं प्रतिवेदनमा समावेश गरिने व्यहोरा समेत निर्देशनानुसार जानकारी गराउडदछु ।

बोधार्थ :-

श्री त्रि.वि. निरीक्षण महाशाखा, कीर्तिपुर – प्रतिवेदन यसैसाथ संलग्न छ ।

२०७२।११।२७
(तोयनाथ अर्याल)
निर्देशक

Central Department of Geology Kirtipur

63/9/96

महालेखापरीक्षकको कार्यालय
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प.सं.०७१/७२
च.नं. ३८९

मिति : २०७२/०३/१०

विषय : **लेखापरीक्षणको प्रारम्भिक प्रतिवेदन ।**

श्री विभागीय प्रमुखज्यू,
भूगर्भशास्त्र केन्द्रीय विभाग
कीर्तिपुर, काठमाडौं ।

महाशय,

त्यस विभागको आर्थिक वर्ष २०७०/७१ को राजश्व/धरौटी/विनियोजन/अन्य कारोवारको आर्थिक विवरण तथा सोसँग सम्बन्धित पेश भएसम्मको लेखाको परीक्षण सम्पन्न गरी तयार गरिएको पाना ४ (चार) को प्रारम्भिक प्रतिवेदन यसैसाथ छ । प्रतिवेदनमा उल्लेखित व्यहोराका सम्बन्धमा आर्थिक कार्यविधि ऐन, २०५५ को दफा १९(१) बमोजिम ३५ दिनभित्र असुल फछ्यौंट भएको प्रमाण वा बेरुजु कायम गर्न नपर्ने कुनै कारण भए प्रमाण सहितको जवाफ पठाउन हुन अनुरोध गर्दछु । समयमा फछ्यौंटको प्रमाण वा जवाफ प्राप्त नभएमा संलग्न व्यहोरा महालेखा परीक्षकको वार्षिक (अन्तिम) प्रतिवेदनमा समावेश गरिने व्यहोरा समेत निर्देशानुसार जानकारी गराउँदछु ।

बोधार्थ तथा कार्यार्थ

श्री त्रि.वि. केन्द्रीय कार्यालय
निरीक्षण महाशाखा, कीर्तिपुर, काठमाडौं :– प्रतिवेदन संलग्न छ ।

भवदिय

२०७२/३/१०

(घनश्याम अधिकारी)
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प.सं.०७०/७१
च.नं. ४३८

मिति : २०७१/०३/१२

विषय : **लेखापरीक्षणको प्रारम्भिक प्रतिवेदन ।**

श्री विभागीय प्रमुखज्यू,
भूगर्भशास्त्र केन्द्रीय विभाग
कीर्तिपुर, काठमाण्डौं ।

महाशय,

त्यस विभागको आर्थिक वर्ष २०६९/७० को राजश्व/धरौटी/विनियोजन/अन्य कारोवारको आर्थिक विवरण तथा सोसँग सम्वन्धित पेश भएसम्मको लेखाको परीक्षण सम्पन्न गरी तयार गरिएको पत्र ३८(१) को प्रारम्भिक प्रतिवेदन यसैसाथ छ । प्रतिवेदनमा उल्लेखित व्यहोराका सम्वन्धमा आर्थिक कार्यविधि ऐन, २०५५ को दफा १९(१) बमोजिम ३५ दिनभित्र असुल फछ्यौंट भएको प्रमाण वा बेरुजु कायम गर्न नपर्ने कुनै कारण भए प्रमाण सहितको जवाफ पठाउन हुन अनुरोध गर्दछु । समयमा फछ्यौंटको प्रमाण वा जवाफ प्राप्त नभएमा संलग्न व्यहोरा महालेखा परीक्षकको वार्षिक (अन्तिम) प्रतिवेदनमा समावेश गरिने व्यहोरा समेत निर्देशानुसार जानकारी गराउँदछु ।

भवदिय

बोधार्थ तथा कार्यार्थ

श्री त्रि.वि.केन्द्रीय कार्यालय
निरीक्षण माहाशाखा, कीर्तिपुर, काठमाडौं :– प्रतिवेदन संलग्न छ ।

२०७१/३/१२
(घनश्याम अधिकारी)
निर्देशक