General Procedure for Hiring/Renting JNEC Facilities



Royal University of Bhutan Jigme Namgyel Engineering College Dewathang: Bhutan (Revised September 2018 with 91st CMC Meeting)

Background

The Jigme Namgyel Engineering College is one of the constituent colleges of the Royal University of Bhutan. The College was established in 1974 and is Bhutan's oldest technical College offering diploma level programmes in engineering. The College offers Diploma programmes in Civil Engineering, Electrical Engineering, Mechanical Engineering, Computer Hardware and Networking, Electronics and Communication Engineering, Surveying and Materials and Procurement Management with well facilitated laboratories, access to high capacity computing facilities, state of the art Library and excellent sporting facilities.

Over the years, the College has collaborated closely with the stakeholders, especially the construction industries in providing laboratory services such as material testing and consultancy services for numerous projects.

In addition, the College has recently established a Center for Appropriate Technology that aims to serve the rural community and respond to their needs, strengthen JNP as a national asset, provide a practical knowledge base for ecologically friendly and culturally appropriate development in the region, and create meaningful source of income.

In order to reach the community and provide relevant assistance for mutual benefit, the College shares its resources with the community where possible. This booklet sets out the procedure and relevant charges to avail these facilities.

General Procedure for Renting JNEC Facilities

The Hirer Shall:

- 1. Seek approval from the President through an application letter.
- 2. Contact the respective In-Charge(s) and make necessary payment to the Accounts section based on the availability of the facility.
- 3. Take delivery of the facilities by producing the payment slip to the respective In-Charge(s).
- 4. Handover the facility in compliance with the terms & conditions set out in the policy document.

Terms and Conditions for Hiring Facilities

The general terms & conditions for renting/hiring facilities apply to the hirer and the College (JNEC) and thereby constitute an integral part of the hirer agreement between the hirer and the College (JNEC) regarding the hirer's hire/rent of the College's facilities.

- 1. All facilities/services provided by the College are subjected to availability.
- 2. Facilities/services cannot be confirmed or delivered until all rental/hire and other charges have been paid in full. No responsibility is accepted for non-delivery of facilities/services where payment has not been made in advance or made available at the time of delivery.
- 3. The hirer(s) shall be liable for any damage to the College hired/rented facilities.
- 4. Rental/hiring charges at the time of delivery are exclusive of the transportation charge and must be returned immediately following the usage.

- 5. Rates for the facilities/services are subjected to change without prior notice.
- 6. In case, the rented facilities is (are) not return within the stipulated time, 100% penalty on the rented charge in addition to the normal charge for the additional duration will be imposed.
- 7. For the space(s) rented for intended purpose (entrainment), the following needs to be strictly observed:
 - 7.1. Smoking is not permitted anywhere in the facilities
 - 7.2. Alcoholic beverages and chewing of *doma* is not permitted
 - 7.3. Loitering is not permitted in and around the facility premises.

8. Rental of Space

- 8.1. All properties belonging to the hirer, including any rubbish, must be removed and taken off from the premises immediately at the end of the period of hire.
- 8.2. The hired premises must be handed over in the condition in which they were received. This will mean careful cleaning and tidying after use. Lights and A/Cs are to be turned off, windows closed and doors locked.
- 8.3. Inform the manager(s)/In-Charge(s) on any damage observed before you take over the facility.

9. The Guest House Rental

9.1. Report any missing items or damages observed in the room immediately for replacement/repair. Failing to report such

observation may lead to payment of compensation by the occupant(s) of the room at the time of check out.

10. Furniture Rental/Hire

10.1. Furniture rented/hire beyond the College premises needs additional care during the transportation to/from the designated place.

11. Rental/Hire Machines/Equipment and Engineering Services

- 1.1. Contact the department (Civil, Electrical, Mechanical, IT) laboratory/workshop In-Charge(s) for the hiring of machine(s)/equipment for the specific purpose(s).
- 1.2. The hired equipment shall be delivered with the necessary accessories and the College shall provide an operator and appropriate charges for the operator(s) shall be borne by the hirer as per BCSR rules and regulations.

Booking and information:

For Guest House and all other facilities

Mr. Passang Dendup (Asst. Adm. Officer) Phone. No. 17688470 (m)/07-260302 (office)

Mr. Chorten Dorji (Estate Manager) Phone. No. 17439947 (m)/07-260302(office)

Mrs. Tshewang Pemo (Guest House Care Taker)

Mobile No. 17708615 For Computing Facility

Rate(s) for the Common Facilities

| SI. No. | Facilities | Rate / Day (Nu.) |
|------------|----------------------------------|---------------------|
| 1 | Lecture Theatre (one time usage) | 7000 |
| 1 | Conference Hall (with projector) | 4000 |

| 2 | Conference Hall (without projector) | 3000 |
|----|--|------|
| 3 | Seminar Hall (with projector) | 3000 |
| | Seminar Hall (without projector) | 2000 |
| 3 | Classroom | |
| 4 | Over Head Projector (OHP) | 100 |
| 5 | Personal Computer (with Internet facility)/computer | 200 |
| 6 | Personal Computer (without Internet facility)/computer | 150 |
| 7 | LCD beamer/Infocus machine | 1500 |
| 8 | Photocopy Service (per copy) | 5 |
| 9 | MP Hall for Entertainment purpose | 2000 |
| 10 | MP Hall for Non-entertainment purpose | 1700 |
| 11 | Plastic Chairs (per Chair/per day) | |
| 12 | Classroom Tables (per Table/day) | 50 |
| 13 | Hostel Rooms (per head/bed/night) | 50 |
| 14 | Football Ground (per match) | 300 |
| 15 | Basketball Court (per match) | 100 |
| 16 | Volley ball Court (per match) | 100 |
| 17 | Lawn Tennis Court (per match) | 150 |
| 18 | Badminton Court (MP Hall, per day) | 1000 |
| 19 | PA System (set, per day) | 1000 |
| 20 | Archery Range (daytime) | 1100 |
| 21 | Archery Range (night) | 1500 |
| 22 | Comb, Spiral Binding per booklet | 75 |
| 23 | Printing, Scanning/page | 5 |
| 24 | Sofa Set (inclusive of one three seater, two single seater and a chokdom | 100 |

a. Guest House Service Charges

- 1. Nu. 150.00/bed/night for RUB employees.
- 2. Nu. 350.00/bed/night for others.
- 3. Nu. 200.00/bed/night for programmes/trainings/workshops conducted by the college
- 4. Executive room 400/night
- 5. Nu. 1000.00/bed/night for International(s)

b. Materials from Central Store

- 1. Flag pole with *dhar* Nu. 10
- 2. Rudhar per roll Nu. 30
- 3. Traditional Tent: Nu. 2000/day

Rate(s) for Facilities in Department of Civil Engineering and Surveying

| CIVIL & SURVEYING | | | | |
|-------------------|--|------------|--|--|
| SL.No. | EQUIPMENT | RATE (Nu.) | | |
| 1 | Total Station with Accessories (Leica/ Trimble/ Sokkia) | 10000/day | | |
| 2 | Theodolite (Sokkia make) | 1250/day | | |
| 3 | Leveling Instrument | 500/day | | |
| 4 | Plane Table | 250/day | | |
| 5 | RKI with accessories | 1050/day | | |
| 6 | Prismatic Compass | 250/day | | |
| 7 | Measuring tape | 100/day | | |
| 8 | Leveling Staff | 100/day | | |
| 9 | Ranging Rod | 50/day | | |
| 10 | Surveying Umbrella | 100/day | | |
| 11 | Bipod - (Stand for holding prism) | 150/day | | |
| 12 | Leica GPS | 5000/day | | |

| 13 | Topographic Map Production | 15000/acre |
|--------|----------------------------|------------|
| 14 | Cube Mould | 250/set |
| 15 | Slump Apparatus | 250/day |

| | TEST ON CEMENT & CONCRETE | | | | | | |
|------------|--|--------------------------|----------------|----------|--|--|--|
| SI. No. | Equipment | Standard(s) | Sample Size | Rate Nu. | | | |
| 1 | Compressive Strength (Concrete Cubes) | IS:516-1958 | 3 Cubes | 1000/Set | | | |
| 2 | Standard Consistency Test (Initial & Final Setting) | IS:4031 (Part 5) 1988 | 5 Kg | 1500/Set | | | |
| 3 | Compressive strength Test (Cement Cubes) | IS:4031 (Part 6) | 10 Kg | 1000/Set | | | |
| 4 | Slump Test (Workability) | IS:1199-1959 | | 800/Set | | | |

| TEST ON SOIL | | | | | |
|--------------|---|---|-------------------------|--------------------|--|
| SI. No | Equipment | quipment Standards | | Rate (Nu.) | |
| | Bearing Capacity Tests by SPT | IS: 21`31 & IS: 8009-1976 (Part I) | Site Map with infra. | 10000/bore hole | |
| 1 | Field Density (Core Cutter) | IS: 2720 (Part XXIX)-1975 | Layout/Site | 1000/Piece | |
| 2 | Field Density (Sand Replacement) | IS: 2720 (Part XXVIII) 1985 | | 2000/Piece | |
| 3 | Direct Shear Test | IS: 2720 (Part XXXIX) : Sec 1- 1977 | 5-10 Kgs | 2800/ 2 Samples | |
| 4 | Liquid Limt Test/ Plastic Limit Test | IS: 2720 (Part V)- 1985 | 5 Kgs | 1200/3 Samples | |
| 5 | Shrinkage Limit Test | IS: 2720 (Part V)- 1986 | 5 Kgs | 1200/3 Samples | |
| 6 | Grain Size Analysis (Dry) | IS: 460-1962 | 5-10 Kgs | 1200/3 Samples | |
| 7 | Specific Gravity Test | IS: 2720 (Part III); Sec 2- 1980 | 5 Kgs | 1000/3 Samples | |

| 8 | | loisture Content est (Oven-Drying) | IS: 2720 (Part II)- 1973 | 1-2 Kgs | 600/3 Samples |
|---|------|--|------------------------------|-----------|-------------------|
| ę | s | Compaction: Standard Proctor est (Light) | IS: 2720 (Part VII)- 1980 | 10-15 Kgs | 2500/3 Samples |
| 1 |) (O | Permeability Test Constant Head /lethod) | IS: 11209-1985 | 5-10 Kgs | 1000/3 Samples |

| | TEST ON COARSE AGGREGATES | | | | | | |
|------------|-----------------------------|--------------------------|----------------|------------|--|--|--|
| SL. No. | Type of Test(s) | Standard | Sample Size | Rate (Nu.) | | | |
| 1 | Abrasion Test | IS-2386 (5) | 5 Kgs | 2500/Set | | | |
| 2 | Impact Test | IS-2386 (4) | 5 Kgs | 1200/Set | | | |
| 4 | Shape Test | IS-2386 (1) | 10 Kgs | 2000/Set | | | |
| 5 | Specific Gravity | IS:2386-1963 (Part 3) | 10 Kgs | 1000/Set | | | |
| 6 | Water Absorption | IS:2386-1963 (Part 3) | 10 Kgs | 600/Set | | | |
| 7 | Grading (Sieve Analysis) | IS:2386-1963 (Part 1) | 10 Kgs | 1500/Set | | | |

| TEST ON FINE AGGREGATES | | | | | | |
|-------------------------|---|--------------------------|----------------|------------|--|--|
| SI. No. | Equipment | Standard | Sample size | Rate (Nu.) | | |
| 1 | Specific Gravity | IS:2386-1963 (Part 3) | 10 Kgs | 1000/Set | | |
| 2 | Water Absorption | IS:2386-1963 (Part 3) | 10 Kgs | 800/Set | | |
| 3 | Bulking of Sand | IS:2386-1963 (Part 3) | 10 Kgs | 600/Set | | |
| 4 | Silt Content of Sand | IS:2386-1963 (Part 3) | 10 Kgs | 500/Set | | |
| 5 | Bulk Density of sand | IS:2386-1963 (Part 3) | 10 Kgs | 500/Set | | |
| 6 | Grading (Sieve Analysis/Fineness Modulus) | IS:2386-1963 (Part 1) | 10 Kgs | 1500/Set | | |

| TESTS ON STEEL MECHANICAL PROPERTIES | | | | | |
|--------------------------------------|-----------|----------|----------------|-------------|--|
| SI. No. | Equipment | Standard | Sample size | Rate Nu. | |

| 1 | Tensile Test (bar up to 40 mm diameter) for High strength steel (Fe415 & Fe500) | IS:1605-2005 | 3 bars (1m length) | 1800/Set |
|---|--|--------------|-----------------------|----------|
| 2 | Tensile Test (bar up to 40mm diameter) Fe250 | IS:1605-2006 | 3 bars (1m length) | 1500/Set |
| 3 | Bend Test | IS:1599-1974 | 3 bars (1m length) | 1000/Set |
| 4 | Deformation and Surface Characteristics | IS:1786-1985 | 3 bars (1m length) | 700/Set |

| | BUILDING BRICKS TESTS | | | | | | | |
|---|-------------------------|-----------------------|----------|---------|--|--|--|--|
| SI. No.EquipmentStandardSample sizeRate | | | | | | | | |
| 1 | Compressive Strength | IS:3495 (Part 1)-1976 | 5 bricks | 800/Set | | | | |
| 2 | Water Absorption | IS:3495 (Part 2)-1976 | 5 bricks | 500/Set | | | | |
| 3 | Efflorescence | IS:3495 (Part 3)-1976 | 5 bricks | 500/Set | | | | |

| TEST ON BITUMEN | | | | |
|-----------------|------------------|-----------|----------------|--------------|
| SI. No. | Equipment | Standards | Sample Size | Rate (Nu) |
| 1 | Penetration Test | IS-1203 | 1 Kg | 1000/Set |
| 2 | Softening Test | IS- 1205 | 1 Kg | 1000/Set |

| PUBLIC HEALTH ENGINEERING | | | |
|---------------------------|-------------------------------------|--|--------------|
| SI. No. | Equipment | Sample Size | Rate (Nu) |
| 1 | pH Test | 5 liters of sample water without air space | 280/Sample |
| 2 | Turbidity | | 860/Sample |
| 3 | Electrical Conductivity | | 320/Sample |
| 4 | Oxidation Reduction Potential (ORP) | | 860/Sample |
| 5 | Dissolve Oxygen (DO) | | 860/Sample |
| 6 | Salinity | | 860/Sample |
| 7 | Total Dissolve Solid (TDS) | | 1750/Sample |

| 8 | Sea Water Specific Gravity | 860/Sample |
|----|---------------------------------|-------------|
| 9 | Temperature | 860/Sample |
| 10 | Water Depth | 860/Sample |
| 11 | Chemical Oxygen Demand (COD) | 1950/Sample |
| 12 | Biological Oxygen Demand (BOD) | 2000/Sample |
| 13 | Optimum Alum Dose Test | 1160/Sample |
| 14 | Chloride | 715/Sample |
| 15 | Phosphate | 1700/Sample |
| 16 | Sulphate | 965/Sample |
| 17 | Alkalinity | 650/Sample |
| 18 | PM10 and SPM | 4000/Sample |
| 19 | Hardness | 700/Sample |

Rate(s) for Facilities in Electrical Engineering Department

| SI. No. | Service Type | Rate(s) Nu. |
|------------|--|-----------------------|
| 1 | Earthing value test (Of residential/commercial areas) | 500/test |
| 2 | New Electrical installation test (IR, Continuity etc) as required. | 500/test |
| 3 | Soil Resistivity test (for earthing site selection) | 500/test |
| 4 | Under Ground cable fault location test | 700/day for equipment |
| 5 | Dielectric Strength Test (esp. transformer oil) 100/Sample | |
| 6 | Drilling machine (portable) | 1000/ day |
| 7 | Metallic Ladder | 150/day |
| 8 | Megger | 700/day |
| 9 | Clamp Meter | 300/day |

Rate(s) for Facilities in Department of Mechanical Engineering

| SI. No. | Service Type | Rate(s) Nu. |
|------------|----------------------------------|-----------------------------------|
| 1 | Air Servicing for Car/vehicles | 30(S) 80(E) |
| 3 | Portable Welding Machine | 2000/day + TA/DA for the operator |
| 4 | Diesel Generator (within campus) | 500/day |
| 5 | Guillotine Machine | 800/hr |

Notes: * S – Staff/Students, E – External (non-JNP), H – Heavy vehicle

Rate(s) for Facilities in Department of Information Technology

| SI. No. | Service Type | Staff/Student Rate Nu. | Others Rate Nu. |
|------------|---|------------------------------|-----------------------|
| 1 | Software troubleshooting and configuration | 50 | 100 |
| 2 | Installation of the Operating Systems and other related Applications | 100 | 200 |
| 3 | Hardware and software troubleshooting, repair and maintenance | 200 | 300 |
| 4 | Splicing Machine | | 4000/day |

Rate(s) for Issue of Duplicate certificate(s) or Mark-sheet(s)

| SI. No | Document type | Certificate Authentication Charge (Nu.) |
|-----------|--|--|
| 1 | Course Completion Certificate (Duplicate) | 500/copy |
| 2 | Migration Certificate (Duplicate) | 200/сору |
| 3 | Change/Replacement of mark sheet (duplicate) | 300/semester |
| 4 | Consolidated/Overall mark sheet (Duplicate) | 500/copy |
| 5 | Transfer Certificate (Duplicate) | 300/сору |
| 6 | Provisional Certificate (Duplicate) | 300/copy |

Note: In the above mentioned "Duplicate" refers to the document which is issued for the second time to the individual who after taking the first issue request for the second time. The above rate(s) is inclusive of postal charges.

Rate(s) for Facilities in Centre for Appropriate Technology Centre:

| SI. | Name of Equipment & | Rate/Hour | Remarks |
|-----|-----------------------------------|-----------|----------------|
| No. | Tools | | |
| 1 | Multi cutter | 100/hr | Without energy |
| 2 | Straight Grinder | 100/hr | Without energy |
| 3 | Jig Saw | 100/hr | Without energy |
| 4 | Sabre Saw | 100/hr | Without energy |
| 5 | Cordless Impact Drill | 150/hr | |
| 6 | Random Orbit Sander | 100/hr | Without energy |
| 7 | Shear | 100/hr | Without energy |
| 8 | Angal Grinder | 100/hr | Without energy |
| 9 | Metal Cutoff Grinder | 150/hr | Without energy |
| 10 | Arc Welding Machine | 500/day | Without energy |
| | (3phase) | | |
| 11 | Arc Welding Machine | 500/day | Without energy |
| | (1phase) | | |
| 12 | Hydraulic Pipe Bending Machine | 500/day | |
| | wachine | | |

Note: With energy in the campus Nu. 50/hr.