

## NATIONAL BOARD OF ACCREDITATION

Data Capturing Points of the Program Applied for NBA Accreditation– Tier I/II UG (Engineering) Institute Programs

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| <b>Program Name :</b> Civil Engineering | <b>Discipline:</b> Engineering & Technology |
| <b>Level :</b> Under Graduate           | <b>Tier:</b> 1                              |
| <b>Application No:</b> 10907            | <b>Date of Submission:</b> 25-07-2025       |

### PART A- Profile of the Institute

|                                                                                                        |                                                               |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>A1.Name of the Institute:</b> National Institute of Technology Manipur                              |                                                               |
| Year of Establishment : 2010                                                                           | Location of the Institute: Langol Imphal-795004 Manipur INDIA |
| <b>A2. Institute Address:</b> NIT Manipur, Langol, Imphal-795004, Manipur(INDIA) Dr. Kh. Manglem Singh |                                                               |
| City: Imphal East                                                                                      | State: Manipur                                                |
| Pin Code: 795004                                                                                       | Website: www.nitmanipur.ac.in                                 |
| Email: nbanitmanipur@gmail.com                                                                         | Phone No(with STD Code): 0385-2058566                         |
| <b>A3. Name and Address of the Affiliating University (if any):</b>                                    |                                                               |
| Name of the University : MHRD New Delhi                                                                | City:                                                         |
| State :                                                                                                | Pin Code: 795004                                              |
| <b>A4. Type of the Institution:</b> NIT                                                                |                                                               |
| <b>A5. Ownership Status:</b> Central Government                                                        |                                                               |

#### A6. Details of all Programs being Offered by the Institution:

- No. of UG programs: 5
- No. of PG programs: 7

Table No. A6.1: List of all programs offered by the Institute.

| Sr.No. | Discipline               | Level of program | Name of the program                        | Year of Start | Year of Closed | Name of The Department                    |
|--------|--------------------------|------------------|--------------------------------------------|---------------|----------------|-------------------------------------------|
| 1      | Engineering & Technology | UG               | Civil Engineering                          | 2013          | --             | Civil Engineering                         |
| 2      | Engineering & Technology | PG               | Communication & Signal Processing          | 2022          | --             | Electronics and Communication Engineering |
| 3      | Engineering & Technology | UG               | Computer Science and Engineering           | 2010          | --             | Computer Science and Engineering          |
| 4      | Engineering & Technology | PG               | Computer Science and Engineering           | 2014          | --             | Computer Science and Engineering          |
| 5      | Engineering & Technology | UG               | Electrical Engineering                     | 2014          | --             | Electrical Engineering                    |
| 6      | Engineering & Technology | UG               | Electronics & Communication Engineering    | 2010          | --             | Electronics and Communication Engineering |
| 7      | Engineering & Technology | PG               | Environmental & Water Resource Engineering | 2014          | --             | Civil Engineering                         |
| 8      | Engineering & Technology | UG               | Mechanical Engineering                     | 2013          | --             | Mechanical Engineering                    |
| 9      | Engineering & Technology | PG               | Power System & Control                     | 2014          | --             | Electrical Engineering                    |
| 10     | Engineering & Technology | PG               | Structural Engineering                     | 2022          | --             | Civil Engineering                         |
| 11     | Engineering & Technology | PG               | Thermal & Fluid Engineering                | 2014          | --             | Mechanical Engineering                    |
| 12     | Engineering & Technology | PG               | VLSI & Embedded Systems                    | 2014          | --             | Electronics and Communication Engineering |

#### A7. Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

| Name of the Department                    | Having Allied Departments | Name of the Program                     | Program Level |
|-------------------------------------------|---------------------------|-----------------------------------------|---------------|
| Electronics and Communication Engineering | No                        | Electronics & Communication Engineering | UG            |
| Civil Engineering                         | No                        | Civil Engineering                       | UG            |
| Computer Science and Engineering          | No                        | Computer Science and Engineering        | UG            |
| Mechanical Engineering                    | No                        | Mechanical Engineering                  | UG            |

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.

Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

## PART-B: Program information

### B1. Provide the Required Information for the Program Applied For:

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

| SR.NO. | PROGRAM NAME      | PROGRAM APPLIED LEVEL | YEAR OF START / YEAR OF CLOSED | SANCTIONED INTAKE | INCREASE/DECREASE INTAKE (if any) | YEAR OF INCREASE/DECREASE | CURRENT INTAKE | YEAR OF AICTE APPROVAL | AICTE/COMPETENT AUTHORITY APPROVAL DETAILS |
|--------|-------------------|-----------------------|--------------------------------|-------------------|-----------------------------------|---------------------------|----------------|------------------------|--------------------------------------------|
| 1      | Civil Engineering | UG                    | 2013 / --                      | 30                | No                                | NA                        | 30             | 2013                   | BOG Approved                               |

List of the Allied Departments/Cluster and Programs:

### B2. Detail of Head of the Department for the program under consideration:

|                           |              |
|---------------------------|--------------|
| A. Name of the HoD :      | Adani Azhoni |
| B. Nature of appointment: | Regular      |
| C. Qualification:         | Ph.D         |

### B3. Program Details

Table No.B3.1: Admission details for the program excluding those admitted through multiple entry and exit points.

| Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)                                                                | 2024-25 (CAY) | 2023-24 (CAYm1) | 2022-23 (CAYm2) | 2021-22 (CAYm3) | 2020-21 (CAYm4) | 2019-20 (CAYm5) | 2018-19 (CAYm6) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| N=Sanctioned intake of the program (as per AICTE /Competent authority)                                                                                                       | 30            | 30              | 30              | 30              | 30              | 30              | 30              |
| N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program | 24            | 23              | 24              | 30              | 25              | 28              | 28              |
| N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats                                                                      | 0             | 0               | 0               | 0               | 0               | 0               | 0               |
| N3=Separate division if any                                                                                                                                                  | 0             | 0               | 0               | 0               | 0               | 0               | 0               |
| N4=Total no. of students admitted in the 1st year via all supernumerary quotas                                                                                               | 2             | 4               | 4               | 2               | 0               | 0               | 0               |

|                                                                                                                                         |    |    |    |    |    |    |    |
|-----------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|
| Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points. | 26 | 27 | 28 | 32 | 25 | 28 | 28 |
|-----------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

#### B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

| Year of entry   | N (From Table 4.1) | N1 (From Table 4.1) | N4 (From Table 4.1) | Enrollment Ratio [(N1/N)*100] |
|-----------------|--------------------|---------------------|---------------------|-------------------------------|
| 2024-25 (CAY)   | 30                 | 24                  | 2                   | 86.67                         |
| 2023-24 (CAYm1) | 30                 | 23                  | 4                   | 90.00                         |
| 2022-23 (CAYm2) | 30                 | 24                  | 4                   | 93.33                         |

Average [ (ER1 + ER2 + ER3) / 3 ] = 90.00≡ 20.00

#### B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

| Item                                                                                                                                                                                                                                                                                                          | (2020-21)<br>LYG | (2019-20)<br>LYGm1 | (2018-19)<br>LYGm2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|--------------------|
| A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any). | 30.00            | 30.00              | 30.00              |
| B=No. of students who graduated from the program in the stipulated course duration                                                                                                                                                                                                                            | 25.00            | 28.00              | 28.00              |
| Success Rate (SR)= (B/A) * 100                                                                                                                                                                                                                                                                                | 83.33            | 93.33              | 93.33              |

Average SR of three batches ((SR\_1+ SR\_2+ SR\_3)/3): 90.00

#### B6. Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

| Academic Performance                                          | CAYm1( 2023-24 ) | CAYm2( 2022-23 ) | CAYm3 ( 2021-22 ) |
|---------------------------------------------------------------|------------------|------------------|-------------------|
| Mean of CGPA or mean percentage of all successful students(X) | 7.15             | 7.38             | 8.19              |
| Y=Total no. of successful students                            | 27.00            | 27.00            | 32.00             |
| Z=Total no. of students appeared in the examination           | 23.00            | 24.00            | 30.00             |
| API [X*(Y/Z)]                                                 | 8.39             | 8.30             | 8.74              |

Average API[ (AP1+AP2+AP3)/3 ] : 8.48

#### B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

| Academic Performance                                                                                                                                                   | CAYm1 ( 2023-24 ) | CAYm2 ( 2022-23 ) | CAYm3 ( 2021-22 ) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|
| X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10) | 6.96              | 7.76              | 8.62              |
| Y=Total no. of successful students                                                                                                                                     | 27.00             | 32.00             | 25.00             |
| Z=Total no. of students appeared in the examination                                                                                                                    | 27.00             | 32.00             | 25.00             |
| API [ X * (Y/Z) ]                                                                                                                                                      | 6.96              | 7.76              | 8.62              |

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.78

#### B8. Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

| Academic Performance                                                                                                                                                   | CAYm1 (2023-24) | CAYm2 (2022-23) | CAYm3 (2021-22) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|
| X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10) | 7.51            | 8.31            | 8.30            |
| Y=Total no. of successful students                                                                                                                                     | 32.00           | 25.00           | 28.00           |
| Z=Total no. of students appeared in the examination                                                                                                                    | 32.00           | 25.00           | 28.00           |
| API [ X*(Y/Z) ]:                                                                                                                                                       | 7.51            | 8.31            | 8.30            |

Average API [ (AP1 + AP2 + AP3)/3 ] : 8.04

#### B9. Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

| Item                                            | LYG (2020-21) | LYGm1(2019-20) | LYGm2(2018-19) |
|-------------------------------------------------|---------------|----------------|----------------|
| FS*=Total no. of final year students            | 30.00         | 30.00          | 30.00          |
| X=No. of students placed                        | 9.00          | 13.00          | 7.00           |
| Y=No. of students admitted to higher studies    | 3.00          | 9.00           | 4.00           |
| Z= No. of students taking up entrepreneurship   | 0.00          | 0.00           | 0.00           |
| Placement Index(P) = $((X + Y + Z)/FS) * 100$ : | 40.00         | 73.33          | 36.67          |

Average Placement Index =  $(P_1 + P_2 + P_3)/3$ : 50.00 Placement Index Points:

## PART C: Faculty Details in Department and Allied Departments

(Data to be filled in for the Department and Allied Departments)

### C1. Faculty details of Department and Allied Departments

Table No.C1: Faculty details in the Department for the past 3 years including CAY

| Sr.No | Name of the Faculty      | PAN No.     | Highest degree | University                          | Area of Specialization                         | Date of Joining in this Institution | Experience in years in current institute | Designation at Time Joining in this Institution | Present Designation | The date on which Designated as Professor/ Associate Professor if any | Nature of Association (Regular/ Contract/ Ad hoc) | Currently Associated (Y/N) |
|-------|--------------------------|-------------|----------------|-------------------------------------|------------------------------------------------|-------------------------------------|------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------------------------------|---------------------------------------------------|----------------------------|
| 1     | Oinam Bakimchandra       | XXXXXXXX35F | Ph.D           | Stuttgart University, Germany       | Geoinformatics, Remote Sensing, Water Resource | 15/12/2014                          | 10.7                                     | Assistant Professor                             | Professor           | 26/12/2022                                                            | Regular                                           | Yes                        |
| 2     | Waikhom Victory          | XXXXXXXX28A | Ph.D           | NIT Silchar                         | Transportation Planning                        | 28/09/2015                          | 9.3                                      | Lecturer                                        | Assistant Professor |                                                                       | Contractual Fulltime                              | No                         |
| 3     | Potsangbam Albino Kumar  | XXXXXXXX16L | Ph.D           | IIT Guwahati                        | Environmental Engineering                      | 15/04/2014                          | 11.3                                     | Assistant Professor                             | Professor           | 26/12/2022                                                            | Regular                                           | Yes                        |
| 4     | Thiyam Tamphasana Devi   | XXXXXXXX25B | Ph.D           | IIT Guwahati                        | Water Resources Engg                           | 03/09/2015                          | 9.10                                     | Assistant Professor                             | Associate Professor | 26/12/2022                                                            | Regular                                           | Yes                        |
| 5     | Ngangbam Romeji          | XXXXXXXX36N | Ph.D           | IIT Roorkee                         | Hydraulics & Water Resources Engg.             | 02/02/2015                          | 10.5                                     | Assistant Professor                             | Associate Professor | 26/12/2022                                                            | Regular                                           | Yes                        |
| 6     | Adani Azhoni             | XXXXXXXX57C | Ph.D           | Cranfield University United Kingdom | Environmental Technology                       | 18/01/2023                          | 2.6                                      | Associate Professor                             | Associate Professor | 18/01/2023                                                            | Regular                                           | Yes                        |
| 7     | Mayengbam Sunil Singh    | XXXXXXXX43M | Ph.D           | NIT Silchar                         | Earthquake Engineering                         | 11/08/2014                          | 10.11                                    | Assistant Professor                             | Associate Professor | 18/10/2023                                                            | Regular                                           | Yes                        |
| 8     | Khwairakpam Sachidananda | XXXXXXXX36G | Ph.D           | IIT Guwahati                        | Structural Engineering                         | 01/07/2016                          | 9                                        | Lecturer                                        | Assistant Professor |                                                                       | Regular                                           | Yes                        |
| 9     | Nabajit Sarkar           | XXXXXXXX56H | Ph.D           | IIT Guwahati                        | Structural Engineering                         | 26/07/2016                          | 9                                        | Lecturer                                        | Assistant Professor |                                                                       | Regular                                           | Yes                        |
| 10    | Angshuman Das            | XXXXXXXX04C | Ph.D           | IIT Patna                           | Geotechnical Earthquake Engineering            | 17/03/2025                          | 0.4                                      | Assistant Professor                             | Assistant Professor |                                                                       | Regular                                           | Yes                        |
| 11    | Sarungbam Pipileima      | XXXXXXXX00G | Ph.D           | NIT Manipur                         | Environmental Engineering                      | 01/07/2016                          | 9                                        | Lecturer                                        | Assistant Professor |                                                                       | Contractual Fulltime                              | No                         |
| 12    | Maisnam Nongthouba Singh | XXXXXXXX70P | M.Tech         | NIT Silchar                         | Earthquake Engineering                         | 11/07/2016                          | 8.5                                      | Lecturer                                        | Assistant Professor |                                                                       | Contractual Fulltime                              | No                         |

Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

### C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

**B**= No. of Students in UG 2nd year (ST)

**C**= No. of Students in UG 3rd year (ST)

**D**= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

**A**= No. of Students in PG 1st year

**B**= No. of Students in PG 2nd year

Student Faculty Ratio (**SFR**) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

**No. of students (ST)**=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

**F**=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department2

Table No.C2.1: Student-faculty ratio.

| Description                                                                         | CAY(2024-25)       | CAYm1 (2023-24)    | CAYm2 (2022-23)    |
|-------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|
| UG1.B                                                                               | 30                 | 30                 | 30                 |
| UG1.C                                                                               | 30                 | 30                 | 30                 |
| UG1.D                                                                               | 30                 | 30                 | 30                 |
| <b>UG1: Civil Engineering</b>                                                       | <b>90</b>          | <b>90</b>          | <b>90</b>          |
| PG1.A                                                                               | 19                 | 19                 | 10                 |
| PG1.B                                                                               | 19                 | 10                 | 15                 |
| <b>PG1: Environmental &amp; Water Resource Engineering</b>                          | <b>38</b>          | <b>29</b>          | <b>25</b>          |
| PG2.A                                                                               | 19                 | 10                 | 10                 |
| PG2.B                                                                               | 10                 | 10                 | 0                  |
| <b>PG2: Structural Engineering</b>                                                  | <b>29</b>          | <b>20</b>          | <b>10</b>          |
| DS=Total no. of students in all UG and PG programs in the Department                | 157                | 139                | 125                |
| AS=Total no. of students of all UG and PG programs in allied departments            | 0                  | 0                  | 0                  |
| S=Total no. of students in the Department (DS) and allied departments (AS)          | <b>S1= 157</b>     | <b>S2= 139</b>     | <b>S3= 125</b>     |
| DF=Total no. of faculty members in the Department                                   | 8                  | 10                 | 9                  |
| AF= Total no. of faculty members in the allied Departments                          | 0                  | 0                  | 0                  |
| F=Total no. of faculty members in the Department (DF) and allied Departments (AF)   | <b>F1= 8</b>       | <b>F2= 10</b>      | <b>F3= 9</b>       |
| FF=The faculty members in F who have a 100% teaching load in the first-year courses | 0                  | 0                  | 0                  |
| Student Faculty Ratio (SFR)=S/(F-FF)                                                | <b>SFR1= 19.63</b> | <b>SFR2= 13.90</b> | <b>SFR3= 13.89</b> |
| Average SFR for 3 years                                                             | <b>SFR= 15.81</b>  |                    |                    |

### C3. Faculty Qualification

- Faculty qualification index (FQI) =  $2.5 * [(10X + 4Y)/RF]$  where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

| Year           | X | Y | RF   | $FQ = 2.5 \times [(10X + 4Y) / RF]$ |
|----------------|---|---|------|-------------------------------------|
| 2024-25(CAY)   | 8 | 0 | 7.00 | 28.57                               |
| 2023-24(CAYm1) | 8 | 3 | 6.00 | 38.33                               |
| 2022-23(CAYm2) | 7 | 3 | 6.00 | 34.17                               |

### C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required =  $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:}$ .
- RF2= No. of Associate Professors required =  $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$ .

- RF3= No. of Assistant Professors required =  $6/9 \times \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$ .
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

Table No.C4.1: Faculty cadre proportion details.

| Year    | Professors   |               | Associate Professors |               | Assistant Professors |               |
|---------|--------------|---------------|----------------------|---------------|----------------------|---------------|
|         | Required RF1 | Available AF1 | Required RF2         | Available AF1 | Required RF3         | Available AF3 |
| 2024-25 | 1.00         | 2.00          | 1.00                 | 4.00          | 5.00                 | 2.00          |
| 2023-24 | 1.00         | 2.00          | 1.00                 | 3.00          | 4.00                 | 3.00          |
| 2022-23 | 1.00         | 0.00          | 1.00                 | 2.00          | 4.00                 | 5.00          |
| Average | RF1=1.00     | AF1=1.33      | RF2=1.00             | AF2=3.00      | RF2=4.33             | AF2=3.33      |

#### C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

(CAYm2)

(CAYm3)

#### C6. Academic Research

Table No. C6.1: Faculty publication details.

| S.No. | Item                                             | 2023-24<br>(CAYm1) | 2022-23<br>(CAYm2) | 2021-22<br>(CAYm3) |
|-------|--------------------------------------------------|--------------------|--------------------|--------------------|
| 1     | No. of peer reviewed journal papers published    | 21                 | 17                 | 14                 |
| 2     | No. of peer reviewed conference papers published | 9                  | 15                 | 21                 |
| 3     | No. of books/book chapters published             | 13                 | 16                 | 1                  |

#### C7. Sponsored Research Project

Table No. C7.1: List of sponsored research projects received from external agencies.

(CAYm1)

| PI Name             | Co-PI names if any  | Name of the Dept., where project is sanctioned | Project Title*                                                                                                         | Name of the Funding agency                                       | Duration of the project | Amount(Lacs) i.e. 15,25,000=15.25 |
|---------------------|---------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------|-----------------------------------|
| Dr. Ngangbam Romeji | NA                  | Department of Civil Engineering                | Hydro-Geological Investigations & Assessments for Springshed Management in 13 districts of Manipur under WDC-PMKSY 2.0 | Dept of Land Resource, Ministry of Rural developement            | 1.5                     | 7.27                              |
| Dr. Ngangbam Romeji | NA                  | Department of Civil Engineering                | Sedimentation Budgeting and Modelling of Rivers (Thoubal River) in Manipur                                             | WRD, Manipur, NHP, Ministry of Jal Shakti                        | 2                       | 76.24                             |
| Dr. Ngangbam Romeji | NA                  | Department of Civil Engineering                | Flood Early Warning Systems- Manipur (FLEWS-Mn)                                                                        | NESAC-ISRO                                                       | 2                       | 32.00                             |
| Dr. Ngangbam Romeji | Dr. Mayengbam Sunil | Department of Civil Engineering                | Structural Stability Assessment of Dharmasala Building, RIMS                                                           | "Regional Institute of Medical Sciences (RIMS), Imphal, Manipur" | 1                       | 8.51                              |
| Dr. A. Azhoni       | NA                  | Department of Civil Engineering                | Evaluating the Impacts of Swachh Bharat Abhiyan for Plastic Waste Management in Five States of North-East India.       | ICSSR                                                            | 1                       | 20.00                             |
|                     |                     |                                                |                                                                                                                        |                                                                  |                         | Amount received (Rs.):144.02      |

(CAYm2)

(CAYm3)

| PI Name                  | Co-PI names if any | Name of the Dept., where project is sanctioned | Project Title*                                                                                                                              | Name of the Funding agency                                                                                                      | Duration of the project | Amount(Lacs) i.e. 15,25,000=15.25 |
|--------------------------|--------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------|
| Prof. Bakimchandra Oinam |                    | Civil Engg                                     | A geospatial based approach for the identification and assessment of watershed health condition in Loktak lake, Manipur, India              | SERB, DST                                                                                                                       | 3 year                  | 35.36                             |
| Prof. Albino Kumar       |                    | Civil Engg                                     | Construction of Low Cost Water Treatment Plan based on roughing & biosand filters for Lamsang Villages under Imphal West District, Manipur. | North East Centre for technology Application and Reach (NECTAR), DST , Ministry of Science and Technology, Government of India. | 2 year (2021-23)        | 17.00                             |
|                          |                    |                                                |                                                                                                                                             |                                                                                                                                 |                         | Amount received (Rs.):52.36       |

**Total Amount (Lacs) Received for the Past 3 Years: 196.38**

**Note\*:**

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

## C8. Consultancy Work

Table No. C8.1: List of consultancy projects received from external agencies.

**(CAYm1)**

| <b>PI Name</b>              | <b>Co-PI names if any</b> | <b>Name of the Dept., where project is sanctioned</b> | <b>Project Title*</b>                                                                                                                   | <b>Name of the Funding agency</b>                                                                | <b>Duration of the project</b> | <b>Amount(Lacs) i.e. 15,25,000=15.25</b> |
|-----------------------------|---------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------|
| Dr.ing. Bakimchandra Oinam  |                           | Civil Engg                                            | Mix Design- M20, M35                                                                                                                    | NFR                                                                                              | NA                             | 1.56                                     |
| Dr.ing. Bakimchandra Oinam  |                           | Civil Engg                                            | Testing of Rebar Tensile                                                                                                                | Gautum Builders                                                                                  | NA                             | 0.03                                     |
| Dr.ing. Bakimchandra Oinam  |                           | Civil Engg                                            | Bitumen Testing                                                                                                                         | KCC Infra Pvt.Ltd                                                                                | NA                             | 0.17                                     |
| Dr.ing. Bakimchandra Oinam  |                           | Civil Engg                                            | CBR Testing                                                                                                                             | PWD, Govt. of Manipur                                                                            | NA                             | 0.11                                     |
| Dr. Ngangbam Romeji         |                           | Civil Engg                                            | Structural Soundness Test of Main & Link Corridors of RIMS Old Hospital Building, Imphal, Manipur                                       | Regional Institute of Medical Sciences (RIMS), Imphal, Manipur                                   | NA                             | 54.58                                    |
| Dr. Ngangbam Romeji         |                           | Civil Engg                                            | Geotechnical investigation for "C/O Gabion Retaining Wall along Leimakhong River/Turel near R&O FLT Loc at Leimakhong under GE 869 EWS" | Military Engg Services (MES)/869 Engr Works Section, 57 Mtn Brigade/Army HQ, Leimakhong, Manipur | NA                             | 42.90                                    |
| Dr. Mayengbam Sunil Singh   |                           | Civil Engg                                            | Professional consultancy services/Inspection for the project "Construction of Residential Quarters for BSF at Churhanpur, Manipur       | NBCC, Manipur                                                                                    | NA                             | 2.90                                     |
| Dr Khwairakpam Sachidananda |                           | Civil Engg                                            | MATERIAL TEST                                                                                                                           | BLAPPL-GPPL (JV)                                                                                 | NA                             | 37.20                                    |
|                             |                           |                                                       |                                                                                                                                         |                                                                                                  |                                | Amount received (Rs.):139.45             |

**(CAYm2)**

| <b>PI Name</b>              | <b>Co-PI names if any</b> | <b>Name of the Dept., where project is sanctioned</b> | <b>Project Title*</b>                                                                                                      | <b>Name of the Funding agency</b>                           | <b>Duration of the project</b> | <b>Amount(Lacs) i.e. 15,25,000=15.25</b> |
|-----------------------------|---------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------|------------------------------------------|
| Dr. Potsangbam Albino Kumar |                           | Civil Engg                                            | Water,cement aggregate testing                                                                                             | GF Infra                                                    | NA                             | 0.25                                     |
| Dr. Potsangbam Albino Kumar |                           | Civil Engg                                            | Water,cement aggregate testing                                                                                             | NBCC                                                        | NA                             | 0.25                                     |
| Dr. Ngangbam Romeji         |                           | Civil Engg                                            | Feasibility Study for Water Supply to upcoming Imphal Railway Station at Changangei/Bamdiar site                           | NorthEast Frontier Railways (NFR), Ministry of Railways     | NA                             | 16.78                                    |
| Dr. Ngangbam Romeji         |                           | Civil Engg                                            | Concurrent Evaluation of CADWMP works under Thoubal Multipurpose Project (Phase-III) & Dolaithabi Barrage Project, Manipur | Command Area Development Department (CADD), Govt of Manipur | NA                             | 19.87                                    |
| Dr Khwairakpam Sachidananda |                           | Civil Engg                                            | MATERIAL TEST & DESIGN                                                                                                     | M&SCO                                                       | NA                             | 3.36                                     |
| Dr Khwairakpam Sachidananda |                           | Civil Engg                                            | MIX DESIGN                                                                                                                 | M&SCO                                                       | NA                             | 0.46                                     |
|                             |                           |                                                       |                                                                                                                            |                                                             |                                | Amount received (Rs.):40.97              |

(CAYm3)

| PI Name                     | Co-PI names if any | Name of the Dept., where project is sanctioned | Project Title*                    | Name of the Funding agency            | Duration of the project | Amount(Lacs) i.e. 15,25,000=15.25 |
|-----------------------------|--------------------|------------------------------------------------|-----------------------------------|---------------------------------------|-------------------------|-----------------------------------|
| Dr.ing. Bakimchandra Oinam  |                    | Civil Engg                                     | Mix design of concrete            | GF Infra                              | NA                      | 1.42                              |
| Dr.ing. Bakimchandra Oinam  |                    | Civil Engg                                     | Mix design of concrete            | NBCC                                  | NA                      | 0.63                              |
| Dr. Mayengbam Sunil Singh   |                    | Civil Engg                                     | Testing of construction materials | Sterling and Wilson, Power GRID       | NA                      | 0.48                              |
| Dr. Mayengbam Sunil Singh   |                    | Civil Engg                                     | Testing of construction materials | Sterling and Wilson, Power GRID       | NA                      | 0.42                              |
| Dr. Mayengbam Sunil Singh   |                    | Civil Engg                                     | Testing of construction materials | Sterling and Wilson, Power GRID       | NA                      | 0.08                              |
| Dr. Mayengbam Sunil Singh   |                    | Civil Engg                                     | Testing of construction materials | Sterling and Wilson, Power GRID       | NA                      | 0.45                              |
| Dr. Mayengbam Sunil Singh   |                    | Civil Engg                                     | Testing of construction materials | Sterling and Wilson, Power GRID       | NA                      | 0.33                              |
| Dr. Mayengbam Sunil Singh   |                    | Civil Engg                                     | Testing of construction materials | Sterling and Wilson, Power GRID       | NA                      | 1.01                              |
| Dr Khwairakpam Sachidananda |                    | Civil Engg                                     | Material testing                  | M/S HVS construction material pvt ltd | NA                      | 0.10                              |
| Dr Khwairakpam Sachidananda |                    | Civil Engg                                     | soil CBR                          | 25 BRTF IMPHAL                        | NA                      |                                   |
|                             |                    |                                                |                                   |                                       |                         | Amount received (Rs.):4.92        |

**Total amount (Lacs) received for the past 3 years: 185.34**

**Note\*:**

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

#### C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

(CAYm2)

(CAYm3)

**Total amount (Lacs) received for the past 3 years :**

## PART D: Laboratory Infrastructure in the Department

**(Data to be filled in for the Department)**

#### D1. Adequate and Well-Equipped Laboratories, and Technical Manpower

Table No.D1.1: List of laboratories and technical manpower.

| Sr. No | Name of the Laboratory                  | Number of students per set up(Batch Size) | Name of the Important Equipment                                                                  | Weekly utilization status(all the courses for which the lab is utilized) | Technical Manpower Support  |                |               |
|--------|-----------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------|----------------|---------------|
|        |                                         |                                           |                                                                                                  |                                                                          | Name of the Technical staff | Designation    | Qualification |
| 1      | Hydraulics and Hydraulic Structures lab | 15                                        | 1) Experimental Flume (600 x 800mm). 2) Experimental Flume for sediment transport in River Ganga | 12 hrs/week (B                                                           | M. Siman                    | Technical Assi | M.Tech        |
| 2      | Engineering Fluid Mechanics Lab         | 15                                        | 1) Base module for experiments in Fluid Mechanics 2) Methods of Flow measurement                 | 13 hrs/week (B                                                           | M. Siman                    | Technical Assi | M.Tech        |
| 3      | Environmental Engineering Lab           | 15                                        | 1) Microprocessor Conductivity Meter 2) ATOMIC ABSORPTION SPECTROPHOTOMETER                      | 6hrs/week (Bte                                                           | Ksh. Leon                   | Technical Assi | B.Tech        |

|   |                                        |    |                                                                                                     |                 |               |                |               |
|---|----------------------------------------|----|-----------------------------------------------------------------------------------------------------|-----------------|---------------|----------------|---------------|
| 4 | Surveying Laboratory                   | 15 | 1) Plane Table 2) Theodolite 3) Total Station                                                       | 16 hrs/week (B) | I. Bigyananda | Technical Assi | M.Tech        |
| 5 | GIS Lab                                | 15 | 1) Arc GIS Softwares- Latest Version V10.3.1 Arc GIS Master Lab Kit-<br>Deliverables (64 MB Arc GIS | 14 hrs/week (B) | I. Bigyananda | Technical Assi | M.Tech & B.Te |
| 6 | Computational lab                      | 15 | 1) STAAD PRO 2) SAP 2000 3) ABAQUS 4) Ansys Fluent                                                  | 15 hrs/week (B) | S. Priyamani  | Technician     | B.Tech        |
| 7 | Geotechnical Engineering Lab           | 15 | 1) Unconfined compression apparatus 2) Direct Shear Test<br>Apparatus 3) Consolidation              | 12 hrs/week (B) | N Bidyamani   | Technician     | M.Tech        |
| 8 | Transportation Engineering Lab         | 15 | 1) Laboratory California Bearing Ratio Test Apparatus, 2) Los<br>Angeles Abrasion Test Apparatus    | 16 hrs/week (B) | I. Bigyananda | Technical Assi | M.Tech & B.Te |
| 9 | Civil Engineering Materials Laboratory | 15 | 1) Concrete Pan Mixer 2) Vibrating Table IS : 2514-1963 3) Rapid<br>Chloride Penetration Test       | 16 hrs/week (B) | I. Bigyananda | Technical Assi | M.Tech & B.Te |

## D2. Safety Measures in Laboratories

Table No. D2.1: List of various safety measures in laboratories.

| Sr. No | Laboratory Name                         | Safety Measures                                                                                                                                      |
|--------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Hydraulics and Hydraulic Structures lab | 1) Fire safety (fire extinguisher ) 2) First Aid Box 3) Additional MCB 4) Safety instruction board                                                   |
| 2      | Engineering Fluid Mechanics Lab         | 1) Fire safety (fire extinguisher) 2) First Aid Box 3) Additional MCB 4) safety instruction board 5) Rubber bhoot 6) Safety gloves                   |
| 3      | Environmental Engineering Lab           | 1) Fire safety (fire extinguisher) 2) First Aid Box 3) Additional MCB 4) Safety Mask 5) Apron 6) Safety gloves 7) Safety instruction board           |
| 4      | Surveying Laboratory                    | "1) Fire safety (fire extinguisher) 2) First Aid Box"                                                                                                |
| 5      | GIS Lab                                 | 1) Fire safety (fire extinguisher) 2) First Aid Box 3) Additional MCB                                                                                |
| 6      | Computational lab                       | 1) Fire safety (fire extinguisher) 2) First Aid Box 3) Additional MCB                                                                                |
| 7      | Geotechnical Engineering lab            | 1) Fire safety (fire extinguisher) 2) First Aid Box 3) Additional MCB 4) Working Gloves 5) Safety shoes 6) safety instruction board 7) safety gloves |
| 8      | Transportation Engineering Lab          | 1) Fire safety (fire extinguisher) 2) First Aid Box 3) Additional MCB 4) Working Gloves 5) safety instruction board 6) safety shoes 7) safety gloves |
| 9      | Civil Engineering Materials Laboratory  | 1) Fire safety (fire extinguisher) 2) First Aid Box 3) Additional MCB                                                                                |

## D3. Project Laboratory/Research Laboratory

Department has established a) Environmental Sustainability Lab and b) R&D facilities in the areas of Water resources, Environmental Engineering and Structural Engineering to carry out research/consultancy projects in association with various central and state sponsoring agencies.

a) Environmental Sustainability Lab : This was established to execute the undergraduate and post graduate projects in the domains of Environmental Engineering. In addition this lab is also used for executing various research projects sanctioned from ICSSR, RIMS, UBA, DST etc.

b) R&D facilities : The department has established R&D facilities equipped with advanced instruments such as Atomic Absorption Spectrophotometer, Intergraph Image Processing Software, UTM, Pile Driving Analyzer etc. The undergraduate and postgraduate students are utilized those facilities for their projects. The vacant slots are used by the project staff for the sponsored projects.

## PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

### E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

| Year           | Sanctioned intake of all UG programs (S4) | No. of required faculty (RF4= S4/20) | No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1) | No. of faculty members in Engineering Science Courses (NS2) | Percentage= No. of faculty members $((NS1 \times 0.8) + (NS2 \times 0.2)) / (\text{No. of required faculty (RF4)})$ ; Percentage= $((NS1 \times 0.8) + (NS2 \times 0.2)) / RF$ |
|----------------|-------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2022-23(CAYm2) | 180                                       | 9                                    | 12                                                                                                                  | 4                                                           | 116                                                                                                                                                                            |
| 2023-24(CAYm1) | 180                                       | 9                                    | 13                                                                                                                  | 5                                                           | 127                                                                                                                                                                            |
| 2024-25(CAY)   | 180                                       | 9                                    | 14                                                                                                                  | 7                                                           | 140                                                                                                                                                                            |

### E2. Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

| Items                                  | Budgeted in 2024-2025 | Actual Expenses in 2024-2025 till | Budgeted in 2023-2024 | Actual Expenses in 2023-2024 till | Budgeted in 2022-2023 | Actual Expenses in 2022-2023 till | Budgeted in 2021-2022 | Actual Expenses in 2021-2022 till |
|----------------------------------------|-----------------------|-----------------------------------|-----------------------|-----------------------------------|-----------------------|-----------------------------------|-----------------------|-----------------------------------|
| Infrastructure Built-Up                | 13926794              | 13015695                          | 9731860               | 9095196                           | 7723205               | 7217949                           | 5097581               | 4764094                           |
| Library                                | 0                     | 0                                 | 0                     | 0                                 | 0                     | 0                                 | 0                     | 0                                 |
| Laboratory equipment                   | 2070000               | 2068136                           | 1230000               | 1221377                           | 660000                | 655196                            | 180000                | 178648                            |
| Teaching and non-teaching staff salary | 149774808             | 146838047                         | 123543035             | 121120623                         | 107348540             | 105243667                         | 93281864              | 91452808                          |
| Outreach Programs                      | 435000                | 415690                            | 3350000               | 3328043                           | 3200000               | 3161529                           | 8700000               | 8698971                           |
| R&D                                    | 76893488              | 74653872                          | 73327228              | 71191483                          | 58372811              | 56672632                          | 48168353              | 46765391                          |
| Training, Placement and Industry       | 3317936               | 3252878                           | 2072378               | 2031743                           | 2153731               | 21111501                          | 1174094               | 1151073                           |
| SDGs                                   | 2000000               | 1893957                           | 0                     | 0                                 | 0                     | 0                                 | 0                     | 0                                 |
| Miscellaneous Expenses*                | 0                     | 0                                 | 0                     | 0                                 | 0                     | 0                                 | 0                     | 0                                 |
| Others, specify                        | 1050000               | 1026121                           | 3000000               | 2550731                           | 3500000               | 3110228                           | 500000                | 483730                            |
| <b>Total</b>                           | <b>249468026</b>      | <b>243164396</b>                  | <b>216254501</b>      | <b>210539196</b>                  | <b>182958287</b>      | <b>197172702</b>                  | <b>157101892</b>      | <b>153494715</b>                  |

E3. Budget Allocation, Utilization, and Public Accounting at Program Specific Level

Table No. E3.1: Budget and actual expenditure incurred at program level.

| Items                                 | Budgeted in<br>2024-2025 | Actual<br>Expenses in<br>2024-2025 till | Budgeted in<br>2023-2024 | Actual<br>Expenses in<br>2023-2024 till | Budgeted in<br>2022-2023 | Actual<br>Expenses in<br>2022-2023 till | Budgeted in<br>2021-2022 | Actual<br>Expenses in<br>2021-2022 till |
|---------------------------------------|--------------------------|-----------------------------------------|--------------------------|-----------------------------------------|--------------------------|-----------------------------------------|--------------------------|-----------------------------------------|
| Laboratory equipment                  | 2785359                  | 2603139                                 | 1946372                  | 1819039                                 | 1544641                  | 1443590                                 | 1019516                  | 952819                                  |
| Software                              | 417804                   | 390471                                  | 291956                   | 272856                                  | 231696                   | 216538                                  | 152927                   | 142923                                  |
| SDGs                                  | 400000                   | 378791                                  | 0                        | 0                                       | 0                        | 0                                       | 0                        | 0                                       |
| Support for faculty development       | 29954962                 | 29367609                                | 24708607                 | 24224125                                | 21469708                 | 21048733                                | 18656373                 | 18290562                                |
| R & D                                 | 15378698                 | 14930774                                | 14665446                 | 14238297                                | 11674562                 | 11334526                                | 9633671                  | 9353078                                 |
| Industrial Training, Industry expert, | 663587                   | 650576                                  | 414476                   | 406349                                  | 430746                   | 422300                                  | 234819                   | 230215                                  |
| Miscellaneous Expenses*               | 210000                   | 205224                                  | 1200000                  | 1171941                                 | 1260000                  | 1254351                                 | 170000                   | 1691338                                 |
| Total                                 | 49810410                 | 48526584                                | 43226857                 | 42132607                                | 36611353                 | 35720038                                | 29867306                 | 30660935                                |