

**TECHNICAL EDUCATION QUALITY IMPROVEMENT  
PROGRAMME (TEQIP)  
PHASE-III**

**INSTITUTIONAL DEVELOPMENT PROPOSAL  
for  
Sub-Component 1.1  
Institutional Development for Participating Institutions**

**Submitted  
To  
Government of India  
Department of Higher Education Ministry of Human Resource Development  
New Delhi**

**TECHNO INDIA RAMGARH  
(A Govt. Aided Institution)  
RAMGARH, JHARKHAND-825101**

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# 1. INSTITUTIONAL BASIC INFORMATION

## 1.1 Institutional Identity

- Name and address of the Institution: **TECHNO INDIA RAMGARH**  
Vill: Murubanda, P.O: Barkipona, P.S: Rajrappa Project,  
Dist: Ramgarh, Pin Code: 825101, Jharkhand
- Year of establishment : 2013
- Is the Institution AICTE approved? : Yes  
Furnish AICTE approval No. : 1-1555166801
- Type of Institution : Govt. aided
- Status of Institution : Non-autonomous
  
- Name and Designation of : Dr. U. S. Yadav, Principal  
Head of the Institution  
(Full time appointee)

## 1.2 Academic Information:

- Engineering UG and PG programmes offered in Academic year 2016-17:**

| Sl. No | Title of programmes                         | Level (UG, PG, PhD) | Duration (Years) | Year of starting | AICTE sanctioned annual intake | Total student strength in all years of study |
|--------|---|---------------------|------------------|------------------|--------------------------------|--|
| 1      | B.Tech- Mechanical Engg.                    | UG                  | 4                | 2013             | 60                             | 227  |
| 2      | B.Tech- Electrical Engg.                    | UG                  | 4                | 2013             | 60                             | 218  |
| 3      | B.Tech- Civil Engg.                         | UG                  | 4                | 2013             | 60                             | 232  |
| 4      | B.Tech- Electronics and Communication Engg. | UG                  | 4                | 2013             | 60                             | 150  |
| 5      | B.Tech- Computer Science and Engg.          | UG                  | 4                | 2013             | 60                             | 153  |

- NBA Accreditation Status of UG and PG programmes as on 31<sup>st</sup> December 2016:**

Total no of programmes eligible for accreditation (at least one batch pass out): NA

No. of programmes accredited: NA

No. of programmes applied for accreditation: NA

### 1.3 Faculty Status:

- Status of Faculty Associated with Teaching Engineering Students (Regular & Contract) as on 31st December 2016:

| No. of Sanctioned Regular Posts | Present Status : Number in Position<br>by Highest Qualification |   |  |   |                         |   |  |   |                         |    |  |    | Total Number of regular faculty in Position | Total Vacancies | Total Number of contract faculty in Position |
|---------------------------------|---|---|--|---|-------------------------|---|--|---|-------------------------|----|--|----|---|-----------------|--|
|                                 | Doctoral Degree   |   |  |   | Masters Degree          |   |  |   | Bachelor Degree         |    |  |    |   |                 |  |
|                                 | Engineering Disciplines   |   | Supporting Disciplines<br>(Physics, Chemistry, Maths<br>and English/ other languages |   | Engineering Disciplines |   | Supporting Disciplines<br>(Physics, Chemistry, Maths<br>and English/ other languages |   | Engineering Disciplines |    | Supporting Disciplines<br>(Physics, Chemistry, Maths<br>and English/ other languages |    |   |                 |  |
|                                 | R   | C | R  | C | R                       | C | R  | C | R                       | C  | R  | C  |   |                 |  |
| 1                               | 2   | 3 | 4  | 5 | 6                       | 7 | 8  | 9 | 10                      | 11 | 12   | 13 | 14=<br>(2+4+6+8+<br>10+12)                  | 15=(1-14)       | 16=(3+5+7+9+<br>11+13)                       |
| 64                              | 1   | 0 | 3  | 0 | 32                      | 0 | 2  | 0 | 15                      | 0  | 1  | 0  | 54  | 10              | 0  |
|                                 |   |   |  |   |                         |   |  |   |                         |    |  |    |   |                 |  |

R=Regular, C=Contract

## 2. INSTITUTIONAL DEVELOPMENT PROPOSAL (IDP)

### 2.1 Executive summary of IDP

Techno India Ramgarh was started in the year 2013 with 5 Under-graduate programs. Currently Techno India Ramgarh is offering 5 UG programs in various disciplines in Engineering. This college is a Government aided institution and affiliated to Vinoba Bhave University, Hazaribagh and approved by AICTE (**Eastern/1-2811569849/2016/EOA on Dated- 25.04.2016**). Government of Jharkhand handed over the institute to Techno India Group following the required legal steps (Memo no. Vi-1006 dated 21/03/2013). Techno India Group is one of the largest knowledge management groups in India, dedicated to the cause of development of Education, Research and Entrepreneurship in Science, Technology, Management and Medicine and has a mission to support the entire knowledge path from Nursery to Ph.D. Within 20 years of its establishment Techno India Group (TIG) has reached a Zenith of repute in Education & Technology Services. Techno India Group is one of the leading education group in eastern region of India. Under this group there are 9 engineering colleges in West Bengal.

Techno India Ramgarh aims at becoming one among more than 50 esteemed institutes in Jharkhand within a period of 10 years. Techno India Ramgarh with its strengths like committed management, well defined vision, satisfactory infrastructure, competent faculty and promising students intends to derive maximum benefit created by the Government policy favouring Industry-Institute interaction. The institute aims at improving quality education at Under-graduate level. The Institutional development proposal aims at strengthening laboratory infrastructure and academic activities of existing UG programs such as Computer Science and Engineering, Electronics and Communication Engineering, Electrical Engineering, Mechanical Engineering and Civil Engineering in order to offer an increased scope for providing consultancy, training, innovative development, preparations for competitive examinations (like GATE, IES, IAS, UPSC), industrial visits. Moreover this institute is about to offer some remedial methods for learning for the academically weak students.

The institute proposes to enhance the research activities in the thrust areas like Power Systems, Power System Protection, Electrical Machines, Instrumentation, Power Electronics, Digital Logics, Network Theory, Control Systems, Microprocessor and Microcontroller, Switching Networks, Soil Engg, Transportation Engg, Foundation, Survey, Environment, VLSI and CMOS circuit design, Radio frequency and Microwave Communications, Software engineering, Product Design and Development, Concrete Technology, Wireless Sensor Network,

Cloud Computing, Automated Industrial Process Control which will progressively be developed into centres of excellence with the help of TEQIP programme for undertaking advanced research in the aforesaid thrust areas.

The Institute plans to depute the faculty members to the premier institutes like IIT, IISc, IIIT etc. and R&D Organizations for subject-domain training with the objective of helping them to keep themselves alongside each other with the latest developments including technical advancements in their areas of specialization, which in turn will enhance standards in PG programs and the quality of research.

Techno India Ramgarh maintains close interaction with industry through several initiatives. The Institute is about to establish the Industry Institute Interaction Cell. The institute is also looking forward to establish MoU with Confederation of Indian Industry (CII) to increasing the research activities as per global thrust areas related to the institute. The Institute plans to improve interaction with nearby industries and institutions like IIT (ISM), Dhanbad, NIT Jamshedpur, BIT Sindri, IIT Kharagpur, etc., and industries like Tata Steel Plant, HPCL, ACC Cements Pvt. Ltd. etc., to go for introducing joint research activities and joint consultancy, etc.

The Institute also plans to take part in the community development activities like water resource management, environment protection, domestic usage of non-conventional hybrid energy resources etc. The Institute continues to follow the reservation policy of the Govt. of Jharkhand in admissions.

The Institute plans to have a very effective disclosure to ensure transparency and accountability in respect of admissions, student assessments, etc. The same disclosure management framework can be developed with the implementation of the TEQIP program.

In the area of governance, the Institute plans to establish systems and bring about several reforms in the institutional management with a view to creating newer opportunities for growth by

unification skills and administrative capabilities drawn from different departments of the Institute.

To run the UG programs, an amount of **Rs.\_\_\_\_\_** has been allocated for Techno India Ramgarh under various heads viz., learning resources (like books, e -journals, e-books, etc.), recurring expenditure (like laboratory maintenance, workshop maintenance, systems maintenance and monitoring, etc.), non -recurring expenditure (like equipment, computer systems, furniture, etc.), faculty development programs and extension activities to carry out the academic activities effectively.

To impart quality education and to enhance the enrolment, we need to strengthen the existing UG programs and increasing the research activities.

## **2.2 Objectives of the Institution Development Proposal**

The objectives of the institutional development proposal are in alignment with the vision, mission and the ethical values of the institute. Its vision is to become an esteemed leader in professional education and the mission is to impart futuristic and comprehensive professional education of global standards with a high sense of discipline and social relevance in a serene and invigorating environment.

Techno India Ramgarh believes in the dynamic concept of quality. While world -class benchmarks are kept in view, they are not allowed to restrict passion for continual improvement in whatever we do in the Institute.

The Institute stands for the following Core Values:

- Positive attitude
- Creative ideas
- Intellectual freedom
- Leadership
- Quest for excellence

The above values are constantly pursued by the Institute through putting in place “state of the market” technology and infrastructure, positioning competent professionals and facilitating them to work on contemporary issues in various fields of knowledge, creating good ambience for

teachers, students and others to interact and advance the goals of the Institute and networking with all stakeholders to make it possible for the Institute to give the best of support to them.

**The objectives of the present proposal are strengthening of existing laboratories:**

- Measurement & Process control Laboratory
- Network Theory Laboratory
- Electrical Machine Laboratory
- Electrical Workshop Laboratory
- Basic Electrical Engineering Laboratory
- Power Protection Apparatus and Systems Laboratory
- Instrumentation Laboratory
- Power Electronics Laboratory
- Control System Laboratory
- Microprocessor and Microcontroller Laboratory
- Basic Electronics Laboratory
- Digital Electronics Laboratory
- Analog Electronics Laboratory
- Analog Communication Laboratory
- Digital Communication Laboratory
- Semiconductor Devices Laboratory
  
- Digital Signal Processing Laboratory
  
- VLSI Laboratory
  
- Microwave Engineering Laboratory
  
- Telecommunication Switching Laboratory
  
- Soil Laboratory
  
- Transportation Laboratory
  
- Foundation Engg. Laboratory
  
- Survey Laboratory
  
- Environmental Engg. Laboratory
  
- CAD Laboratory
  
- Automobile Engineering Laboratory
- Material Science Laboratory



- Chemistry Laboratory
- Language Laboratory
- Physics Laboratory
- Workshop Technology Laboratory
- Mechanics Laboratory
- Mechanics of Solid Laboratory
- Kinematics of Machinery Laboratory
- Thermal Laboratory
- Fluid Mechanics and Fluid Machinery Laboratory
- Heat and Mass Transfer Laboratory
- Refrigeration and Air Conditioning Laboratory
- Dynamics of Machinery Laboratory
- Machine Design Laboratory
- Mechanical System and Design Laboratory
- Networking Laboratory
- Software Engg. Laboratory
- Programming Laboratory
- JAVA Programming Laboratory

**(a) Action plan for improving the learning outcomes of the students-**

**1) Faculty training:**

Techno India Ramgarh is planning to organize faculty development programs. This institute is planning to organize:

- Individual Project & Research (involving B.Tech students)
- Publication in Journal
- Organizing National Seminar/ Conference

**2) Staff training (Technical & Administrative staff):**

- Facilitate qualification up gradation by Enrolment/Registration/Submission of Thesis of faculty for PhD degree.
- Subject knowledge up gradation by Faculty participation in FDP/SDP/ Workshop/training in teaching / research subjects outstation and in in-house programs

- Developing research capabilities by Faculty participation in outstation seminar/conference and visit / short stay /sabbatical in leading research labs
- Pedagogy and advance pedagogy training
- Functional area training of technical / administrative staff
- Management training for non-teaching and administrative staffs.
- Computer oriented training for non-teaching and administrative staffs.

**3) Increasing capacity of UG, PG and PhD education (increasing enrolment and starting new UG, PG and PhD programmes)**

We are planning to organize a workshop for the high school students to let them know about the fruitfulness and utilities of technical Education as well as some counselling sessions in the high schools.

**4) Investing in smart classrooms, campus Wi-Fi (24\*7 broadband connectivity and Wi-Fi access in all academic and administrative buildings and hostels (with a minimum of 2 MBPS speed for each connection)), e-library etc.**

The institute is now availing 4 Mbps internet speed and Wi-Fi across the campus. We are planning to increase the bandwidth up to 24 Mbps in near future. The institute is interested to convert the conventional classrooms into smart classrooms with the use of projector, digital pen & pad, CCTV Surveillance etc. in all of the five departments. We want to subscribe for the e-journals (like Elsevier, Springer, Taylor and Francis etc to increase the research and development facility within the campus.

**5) Improving the academic performance of SC/ST/OBC/academically weak students through innovative methods, such as remedial and skill development classes, peer assisted learning for increasing the transition rate, non-cognitive skills and pass rate.**

We believe that in addition to good academic inputs students also requires proper grooming to make them industry ready. With this view we run Techno Finishing School Programme which includes grooming sessions with special focus on communication & interpersonal skills. We find that this programme helps our students to perform better in professional life. Presently we are organizing some remedial classes for the academically weak students. We are planning to hire the esteemed faculty members from IITs, NITs,

and other reputed institutes to strengthen the overall academic quality. The Academic supports to be given to the students are:

- Remedial coaching for 600 students
- Special Coaching for GATE/CAT/IES/GRE PSU job exam for 500 students
- Soft skill training for 500 students

**6) Instituting academic and non-academic reforms including programme flexibility (Is there any need to revise the curriculum? When it was last revised?)**

As the first batch is expected to be passed out during July 2017, the revision of the present curriculum is yet to be taken up.

**(b) Improving employability of the students-**

**3) Increasing interaction with industry :**

The institute made interactions with DVC Maithon, Hindalco Industries Muri. We are planning to interact with the other industries like Tata Steel Plant, HPCL to increase the employability to the students.

**4) Student career counselling and placement :**

Techno India Ramgarh offers a quality education to the students. By forming an Institute Industry Interaction Cell (IIIC) we are looking forward to interact with more core sector companies so that the employability of the students. The major plans of IIIC are:

- Improve campus hiring rate of UG
- Student's internship in industry
- Student's industry visit
- Involve industry in curriculum design, guiding student projects, soft skill training
- Consultancy by faculty in industry projects
- Collaboration with industry for focused and sustained interaction

**2.3 Provide an action plan with timelines for**

- 1) Obtaining autonomous institution status from UGC after fulfilling the eligibility criteria's. (Within August 2020)
- 2) Improving the NBA accreditation status after fulfilling the eligibility criteria's. (Within August 2020)

## **2.4 Describe the following in brief**

1) Is any enhanced assistance / mentoring that the institution is looking forward from its ATU?

Not possible in absence of ATU nearby.

2) Does your BoG need strengthening, if yes, then how?

Board of Governors or Institution/ Department Management Committee meets at least 4 times every calendar and publicly discloses the minutes of all meetings.

The BoG of the institution have been settled as per AICTE norms and the Chairman is an educationalist.

3) Is there an ERP/MIS system existing, if yes, then any improvement, modification suggested.

We are having the MIS System for the students as well for the faculties to handle the database for the same.

4) Is there any mechanism i.e. special classes being conducted in the institution for improving the GATE score?

To prepare GATE cell and faculties are motivated to take GATE special classes and the mentors are from IITs, IIT (ISM), NITs and BIT Sindri.

## **2.5 Provide a Twinning Plan with a high performing institute with the objective of capacity building knowledge transfer and developing long term strategic partnerships. (Twinning plan will be formalized into Twinning agreement after finalizing the twinning partner).**

- Assigning live projects to students in minor research areas as part of the curriculum.
- Associating the students in the research and consultancy projects undertaken by the senior faculty members.
- Encouraging the students to participate/organize National and International seminars and conferences on research related topics.
- Offering attractive fellowships for the students to undertake research projects.

## **2.6 Is there any difficulty in Recruitment and selection of high-quality faculty? If yes, what are the reason & action plan to solve the issue?**

Yes, only funding issue.

**2.7 Give an action plan for ensuring that the project activities would be sustained after the end of the Project.**

We plan to develop industry testing laboratories and industry sponsored laboratories. Recently one proposal already send to Hindalco, Muri for sponsoring Huge Machine Laboratory for the Electrical Engg. Deptt. We also plan for skill development programs that will sustain after the end of the project.

**2.8 Describe briefly the participation of departments/faculty/students in the IDP preparation.**

The faculty and the heads of all the Engineering departments were involved in the preparation of proposal for TEQIP phase -III and detailed discussions were held on each issue. The strategic plans were developed for each department separately and consolidated for the institute as a whole. Based on the discussions held from time to time, the respective heads of the departments with the assistance of the other faculties have prepared the proposal for TEQIP phase -III.

Considering the strength and capacities of each department, the heads have proposed the perspective plan for the project from Apr 2017 to Mar 2020. All the Heads of the Departments submitted their proposals to the Head of the Institution. The Head of the institution constituted a committee to scrutinize the proposals in the frame work of TEQIP Phase III.

Head of the Institution after reviewing the draft of the proposal had wide range of discussions with heads of the departments and senior officials of the Institute to finalize the application in all aspects. The final form of proposal is submitted to the appropriate authority for consideration.



### Estimate of Expenditure under Sub-component 1.1

| Sl. No. | Activities  | Estimate of Expenditure (in Lakhs)                  |
|---------|---|---|
| 1       | <b>Procurement of Goods (equipment, furniture, books LRs, software and minor items) and civil works for improvement in teaching, training and learning facilities</b> | Basic Science and Humanities<br>150.00              |
|         |   | Computer Science and Engineering<br>204.00          |
|         |   | Electronics and Communication Engineering<br>208.20 |
|         |   | Electrical Engineering<br>209.55                    |
|         |   | Mechanical Engineering<br>198.00                    |
|         |   | Civil Engineering<br>195.00                         |
|         |   | Administration and Miscellaneous<br>114.00          |
| 2       | <b>Improvement in Teaching, Learning and Research competence</b>  | Basic Science and Humanities<br>75.00               |
|         |   | Computer Science and Engineering<br>102.00          |
|         |   | Electronics and Communication Engineering<br>104.10 |
|         |   | Electrical Engineering<br>104.75                    |
|         |   | Mechanical Engineering<br>99.00                     |
|         |   | Civil Engineering<br>97.50                          |
|         |   | Administration and Miscellaneous<br>57.00           |

|   |                                   |                                     |       |
|---|-----------------------------------|-------------------------------------|-------|
|   |                                   |                                     |       |
| 3 | <b>Incremental Operating Cost</b> | Basic Science and<br>Humanities     | 25.00 |
|   |                                   | Computer Science and<br>Engineering | 34.00 |
|   |                                   | Electronics and                     | 34.70 |



|  |  |                                  |       |
|--|--|----------------------------------|-------|
|  |  | Communication Engineering        |       |
|  |  | Electrical Engineering           | 35.50 |
|  |  | Mechanical Engineering           | 33.00 |
|  |  | Civil Engineering                | 32.50 |
|  |  | Administration and Miscellaneous | 19.00 |

- (1) Scaling up UG education by introducing new, innovative and time-relevant courses keeping in view demand and supply scenario and by implementing regular revision of curricula and syllabi to keep pace with the emerging trends in technology. In this purpose, the year wise breakup of the allotted assistance ship is 50 Lacs in the 1<sup>st</sup> year, 80 Lacs each in the middle years of 2nd, 3rd and 4th and 50 Lacs in the final year. Also a support for weaker among existing UG students will be provided with uniform year-wise breakup of 10Lacs each throughout the project span.
- (2) Enhancement of facilities for demand driven technological research and development to augment undergraduate, inception of postgraduate and doctoral level studies, which in turn will open up new areas for providing consultancy and carrying out industrial testing. The allotted budget is 1 Crore equally distributed in the second to last session of the project life.
- (3) A comprehensive faculty development program to encourage innovative teaching practices, time relevant courses, self-propelled growth in research and development through participation and contributions in International/ National Conferences, Seminars, Symposiums, Workshops, and initiation of academic exchange programs both at post graduate and doctoral levels. The allocated fund is 25Lacs, 75 Lacs, 60Lacs, 40 Lacs and 25Lacs in successive years of the project span.
- (4) Expansion and modernization of existing infrastructure for UG students and introduction of new infrastructures for PG & Research Work such as Laboratories, Library,

Networking, Smart classrooms and creation of a centralized computing and instrumentation facility with sophisticated equipment's relevant to growth of different specializations and centralized digital library facility. The allocated amounts are 25 Lacs in the first session, 1.75 Lacs each in next two years and 50 Lacs in the pre-final year of the project.

- (5) Implementation of a well-defined and time bound plan of cooperation with the networked institutions / industries and open up avenues for collaborative research with Institution of importance and Universities abroad. A proactive effort for intensive interaction with industries through student training, faculty internships, collaborative consultations and contract research.

Budget allocation for the various activities under TEQIP-III i.e. Short Term Courses, Curriculum Workshops, Subject Workshop, Research Internship (e.g. SFRF Programme), Research Meetings/Conferences etc.

**Example: 3 day module with 30 participants from the Quality Circle Institutes  
Total Budget: Rs.11, 85,000/- (@ Rs. 7500/- per participants per day)**

|                 | ITEMS/PARTICULARS  | Amounts<br>(inRs.) |
|-----------------|--|--------------------|
| <b>Sr. Nos.</b> |  |                    |
| 1.              | Boarding and lodging (Guest house for 35 and meals for 40)                                   | 4,00,000.00        |
| 2.              | TA + Honorarium (@ Rs.5000/- per day) for external observers *                               | 2,00,000.00        |
| 3.              | Course materials (Hand-outs, Stationery etc.)  | 1,00,000.00        |
| 4.              | Honorarium to faculty and support staff (@ Rs.10,000/- per hour and 6 lecture hours per day) | 3,00,000.00        |
| 5.              | Coordinator's fee  | 25,000.00          |

|    |   |           |
|----|---|-----------|
| 6. | Contingency & Consumables   | 75,000.00 |
| 7. | Rent for Seminars Room / Studio   | 25,000.00 |
| 8. | TA for Quality Circle participants (as per eligibility)<br>(If item 8 exceeds Rs.40,000/- additional funds may be obtained from TEQIP.) | 60,000.00 |