

GOVERNMENT ENGINEERING COLLEGE, RAIPUR (C.G.)

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME
(TEQIP)**

PHASE-II

INSTITUTIONAL DEVELOPMENT PROPOSAL – 2016

**For
Sub-Component 1.1 Strengthening Institute to Improve Learning
Outcomes and employability of Graduates**

1. INSTITUTIONAL BASIC INFORMATION`

1.1 Institutional Identity

- Name of the Institution: Government Engineering College, Raipur (C.G.)
- Name of University : Chhattisgarh Swami Vivekanand Technical University
(CSVTU), Bilai
- Is the institution AICTE approved? : Yes
- Furnish AICTE approval No: F.No. 06/ENGG/APPROVED/2006-07 MAY 10, 2006 (Annexure-I)
- Type of Institution: Govt. funded
- Status of Institution: Constituent College
- Name of Head of the institution and project Nodal Officers:

Head and Nodal Officer	Name	Phone Number	Mobile Number	Fax Number	E-mail Address
Head of the Institution (Full time appointee)	Prof. G.R.Sahu (HOI)	0771-2103147	9826113191	0771-2103147	principal@gecraipur.ac.in
TEQIP Coordinator	Prof. A.K. Shrivastave	-do-		-do-	
Project Nodal Officers for:					
Academic Activities	Dr. R.S. Parihar	-do-	9406037582	-do-	
Civil Works including Environment Management	Dr. A.K. Dubey	-do-	9575722220	-do-	
Procurement	Prof V.N. Singh	-do-	9425596911	-do-	
Financial aspects	Prof. G.R. Sahu	-do-	9826113191	-do-	
Equity Assurance Plan Implementation	Dr.Rachna Rastogi	-do-	9424225628	-do-	

1.2 Academic Information:

• Engineering UG and PG Programmes offered in Academic year 2009-10

S. No	Title of Programme	Level (UG, PG, PhD)	Duration (Years)	Year of starting	AICTE Sanctioned Annual intake	Total Student Strength *
1	B.E.(ET&T)	UG	2014-15	2006	60	256
2	B.E.(CSE)	UG	2014-15	2006	60	245
3	B.E.(MECH)	UG	2014-15	2006	60	247
4	B.E.(EEE)	UG	2014-15	2006	60	225
5	B.E.(CIVIL)	UG	2014-15	2007	40	107
Grand Total						1080

* 10% extra seats for Tuition Fee Waiver Scheme as per AICTE guideline.

• **Accreditation Status of UG Programmes:**

Title of UG Programmes being offered	Whether eligible for accreditation or not	Whether accredited as on 31st Mar 2010	Whether "Applied for" as on 31st Mar 2010
B.E. (ET&T)	YES	NO	NO
B.E. (CSE)	YES	NO	NO
B.E. (MECH)	YES	NO	NO
B.E.(EEE)	YES	NO	NO
B.E. (CIVIL)	YES	NO	NO

• **Accreditation Status of PG Programmes:**

Title of PG Programmes being offered	Whether eligible for accreditation or not	Whether accredited as on 31st March 2010	Whether "Applied for" as on 31st March 2010
Nil	Nil	Nil	Nil

1.3 Faculty Status (Regular/On-Contract Faculty as on 31st March 2010)

Faculty rank	No of sanctioned Regular or post	Present Status : Number in Position by Highest Qualification												Total No. Regular faculty in Position	Total no. Of vacancies	Total no. Of contact faculty Position
		Doctoral Degree				Masters Degree				Bachelor Degree						
		Engg. Disciplines		Other Disciplines		Engg. Disciplines		Other Disciplines		Engg. Disciplines		Other Disciplines				
		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	15= (3+5+7+9+11+13)	16= (2-15)	17= (4+6+8+10+12+14)
Prof	07	02	--	--	--	--	--	--	--	--	--	--	--	02	05	--
Asso Prof	07	03	--	--	--	01	--	01	--	--	--	--	--	05	02	--
Asst Prof	---- NIL ----															
Lec	34	--	--	--	04	--	02	--	05	01	15	--	--	01	33	26
Total	48	03	--	--	04	01	02	01	05	01	15	--	--	06	42	26

Prof = Professor, Asso Prof = Associate Professor, Asst Prof = Assistant Professor, Lec=Lecturer, R=Regular, C=Contract

1.4 Baseline Data

S. No.	Parameters	
1	Total strength of students in all programmes and all years of study in the year 2014-15	1253
2	Total women students in all programmes and all years of study in the year 2014-15	463
3	Total SC students in all programmes and all years of study in the year 2014-15	185
4	Total ST students in all programmes and all years of study in the year 2014-15	345
5	Total OBC students in all programmes and all years of study in the year 2014-15	403
6	Number of fully functional P-4 and above level computers available for students in the year 2014-15	183
7	Total number of syllabus Text 2014-15-10	30143(Text) +32 (Reference)
8	% of UG students placed through campus interviews in the year 2013-14	-
9	% of PG students placed through campus interviews in the year 2013-14	-
10	% of High quality under graduates (>75% marks) passed out in the year 2013-14	13
11	% of High quality post graduates (>75% marks) passed out in the year 2013-14	-
12	Number of research publications in Indian refereed Journals in the year 2013-14	02
13	Number of research publications in International refereed Journals in the year 2013-14	-
14	Number of Patents obtained in the year 2013-14	-
15	Number of Patents filed in the year 2013-14	-
16	Number of sponsored research projects completed in the year 2013-14	-
17	The transition rate of students in percentage from 1 st year to 2 nd year in the year 2013-14 (i) all students (ii) SC (iii) ST (iv) OBC	84.5% 32.0% 32.0% 52.0%
18	IRG from students fee and other charges in the year 2013-14 (Rs. In lacs)	338.31
19	IRG from commercialization of R & D products, consultancy & other sources in the year 2013-14 (Rs. in lacs)	-
20	Total IRG in the year 2013-14 (Rs. in lacs)	338.31
21	Total recurring expenditure in the year 2013-14Rs. in lacs)	208.95

2. INSTITUTIONAL DEVELOPMENT PROPOSAL (IDP)

2.1 Give the executive summary of the IDP (maximum ½ page)

This proposal basically provides the details of following items:-

- Details of SWOT analysis carried out and its strategic plan for institutional development and its linking to proposed key activities.
- Details of TNA analysis carried out and facility development plan for the first 18 month durations for improving Teaching/Lab abilities etc.
- Specific objectives & expected results helpful in indentifying the measures of learning outcomes and employability of graduate Engineers this institution.
- A number of Action Plans were developed regarding the following:-
 - Learning outcome & employability of graduates
 - Obtaining Autonomy.
 - Curricular reforms & new PG program.
 - Training program at different level.
 - Improving weaker students (SC/ST/OBC).
 - III program/Continuing Education/ Consultancy program.
 - Institutional budget in tabular form.
 - Institutional project Implementation arrangements.

Along with this, the proposal has been made for a block grant of 53.68 crore (13.42 crore yearly) under TEQUIP-II. It also gives the various information regarding the institutional activities reformations.

2.2 • Provide the details of SWOT analysis carried out. In terms of methodology used, analysis and information and data as collected and inferences derived with respect to strengths, weakness, opportunities and threats.

SWOT analysis were performed depending upon the data collections by All Heads, Technical & Non-Technical staffs, parents and finally by our students. The SWOT format were filled up and ranked individually along with their group works. Our management and employers were also involved in this brain storming and some creative exercises were carried out and they focused towards the development of this Institution.

The institution carried out analysis using SWOT framework to identify major strength and weakness area and it has examined the greatest opportunities where it lies and threats faced by us. We had detected the following matters in various areas after SWOT ANALYSIS:

Major Strength :-

S.NO.	Major Strengths
1.	Adequate Building and Infrastructure
2.	Qualified faculty in different discipline with concern for Teaching Learning Process
3.	Library Equipped with branch related books and journals
4.	Modern Laboratory
5.	Testing and consultancy services
6.	Well disciplined students
7.	Passing out rates of the students is high
8.	Young, enthusiastic technical and non-technical staff
9.	Emphasis on practical and project work
10.	Peaceful and conducive environment for academic activities
11.	First Air Force Campus interview for pilot recruitment

S.NO.	Major Weakness
1.	Principal with Dual charge
2.	Insufficient Regular and experience faculty
3.	Unsatisfied faculty with respect to emoluments
4.	Lack of trained laboratory staff
5.	Lack of Hostel facility for boys and girls
6.	Inadequate field and educational visit
7.	Limited basic amenities to students and staff
8.	Up gradation of laboratories needed
9.	Interaction with industries
10.	Lack of proficiency in English language
11.	Unavailability of LAN, Internet and Wi-Fi facility

S.NO.	Major Opportunities
1.	Organization of faculty development programme at national/ International
2.	The only Govt. Engg. College serving in the capital & the state
3.	Better teaching staff can attract good student
4.	Intensive Interaction with industry or skill development of faculty/ staff
5.	Offering part time B.E/M.E programs for technical/ engineers
6.	Need based short term training program working professionals
7.	Only institution to provide Testing & consultancy services in the Capital

S.NO.	Major Threats
1.	Saturation in Computer Science and IT field
2.	Competitive self financed engineering colleges
3.	Reluctance of students to offer core branches of engineering
4.	Lack of interpersonal relation among the students
5.	Unstability of teaching staff

We are intended to take the following potential actions based on SWOT analysis:

Considering Strength & weakness:-

- Appointment of regular faculty in the Institute as early as possible
- Modernize laboratory and workshop as per need of the curriculum
- Arrange live project from Industry to encourage student and faculty participation
- Sponsor faculty members to various pedagogy and content up dating programme
- Enhance integration with Industry for campus selection
- Accreditation of B.E. Programme to have upper edge over self financing Institute
- Network and Computer hardware with LAN/WI-FI FACILITY

Considering Opportunity and strength

- Establishing training centre for organizing programme for Industry/other personnel.
- Industry oriented project for students
- Accreditation of B.E. Programme
- Training of faculty members deputing them institute of repute
- Cultural and other Extra-curricular activities on the campus

Opportunities and weaknesses

- Organizing Industrial training for faculty and staff
- Appointment of regular principal and experience faculty members
- Providing commutation and Hostel facilities to students

- Provision of field/educational visits.

Threats and strength

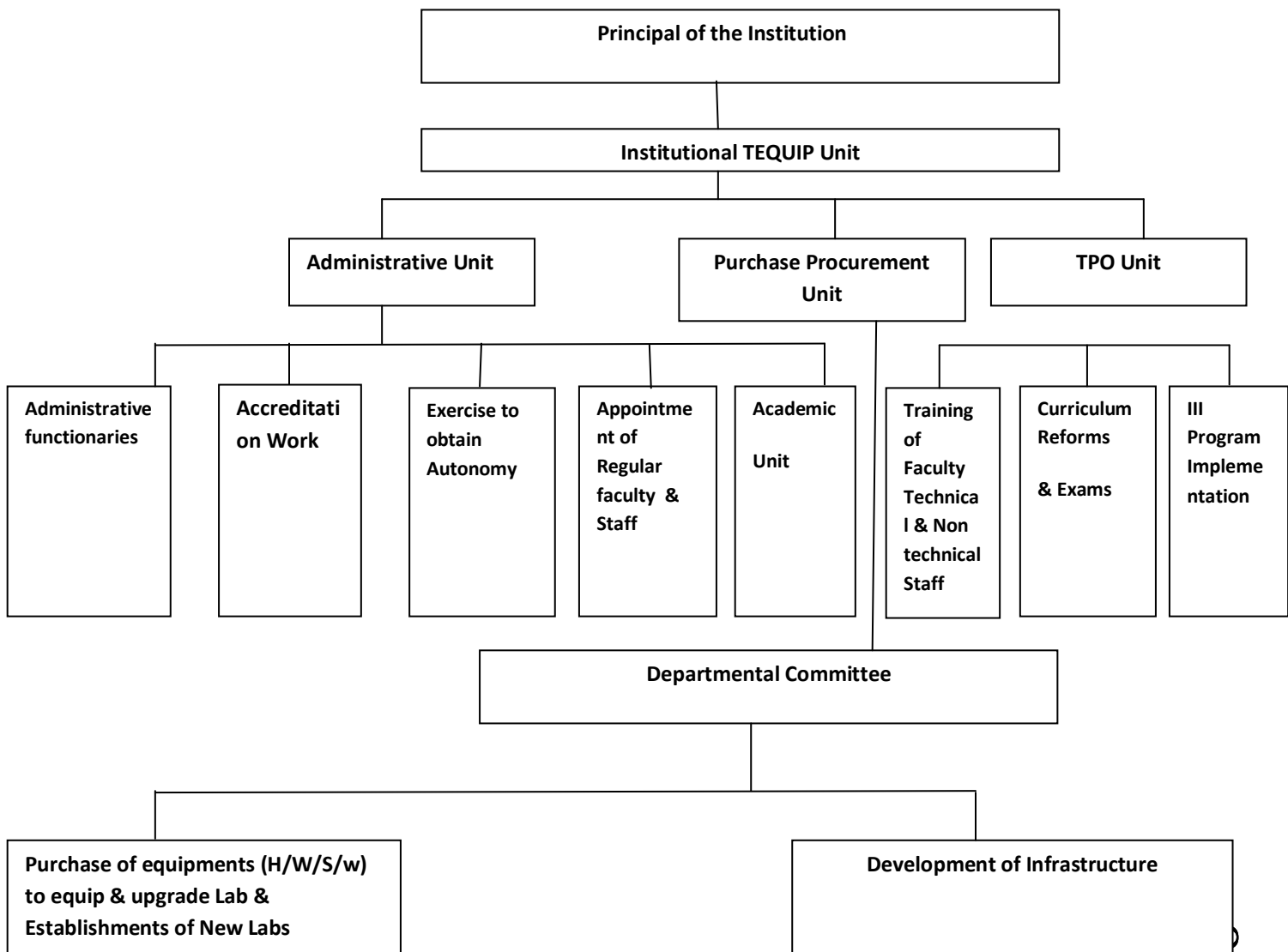
- Encouraging IRG through testing and consultancy services
- Optimum utilization of Instructional facilities
- Programme for school students towards engineering branches

Threat and Weakness

- Special communication skill development programme for students and faculty
- Special allowance to faculty members for encouraging involvement in project
- Grant of Autonomy for improving efficiency.

Under TEQUIP-II, depending upon above, the Institution will be able to enhance the learning outcome and employability of graduates.

Based on SWOT analysis, provide the strategic plan developed for Institutional development.



Objective of Academic Unit – Curriculum and Examination Reform, Improvement of Academically weak students, R & D activities and consultancy, Improvement of Faculty Competency and Quality Teaching

Table-1 Strategic Plan for the Development of the Institution

As for table -1, Principal of the Institution will form a TEQIP Unit.

Under TEQIP Unit the following functionaries will work as follows:

- Administrative Unit
- Purchase procurement Unit
- TPO Unit
- Faculty & Staff members (as per Table-2)

The flow chart as above shows as the various activity to perform by different units for the development of this Institution.

• How the key activities proposed in the Institutional Development Proposal are linked with the results of SWOT analysis.

Based on the SWOT analysis the following key activities proposed in the IDP:-

- Improvement in learning outcome & employability of graduates
- Obtaining Autonomy
- Curriculum Reform and proposal of New UG and PG program
- Training program Faculty, Staff & Students
- Academic improvement of weaker students
- Conduction of Industry Institute Interaction program / Continuing education / Consultancy program.

These activities has to be carried out in coming years. To achieve these targets a detailed action plan has been prepared. The action plan demands for a block grant of Rs. 53.68 Crore.

2.3 State the specific objectives and expected results of your proposal in terms of, “Institutional strengthening and improvements in employability and learning outcomes of graduates”. These objective and results should be linked to the SWOT analysis.

This institution i.e. Government Engineering College Raipur has a keen interest towards the development of the infrastructure and Laboratories with all curriculum reforms as a whole. The general Specific Objectives of our proposal are as follows:

- Establishment of New Labs and modernization of Laboratories.
- Well equipped computer centers in various Department
- Procurement of Infra-structures at this institution
- Strengthening Library facilities & knowledge Resource
- Training of Administrating & Faculty members, Technical & Non Technical Staff.
- Curriculum reforms
- Exercise to obtain Autonomy
- Industry Institute Interaction & Continuing education Program
- Academic Support to weak students and special attention towards ST/SC/OBC students
- Appointments of Regular faculty and staff members.

Hereby we are intended to have the following specific goals which will cause certainly in strengthening the learning out comes of graduates Engineers.

- Establishment of New Labs and modernization of Laboratories.
- Well equipped computer centers in various Department
- Procurement of Infra-structures at this institution
- Strengthening Library facilities & knowledge Resource
- Training of Administrating & Faculty members, Technical & Non Technical Staff.
- Curriculum reforms

Depending upon our above objectives, we are sure that we will be able to achieve the following results that will help in learning outcomes & employability of graduates:

- New laboratories will be established & existing labs will be upgraded.
- Will have department computer Centers.
- Infrastructure will be procured.
- Library facilities will be strengthens & journals etc. may be available.
- Facility & other staff members will be trained to impart sound knowledge towards students
- ST/SC/OBC/ Weak Students will be benefited.
- Curriculum reforms, Industry Institute Interaction and Continuing Education Program will benefit towards them employability of Graduates.

2.4 Provide an Action Plan for: (max 1 page each)

(a) Improving employability of graduates & (b) Increased learning outcome of students.

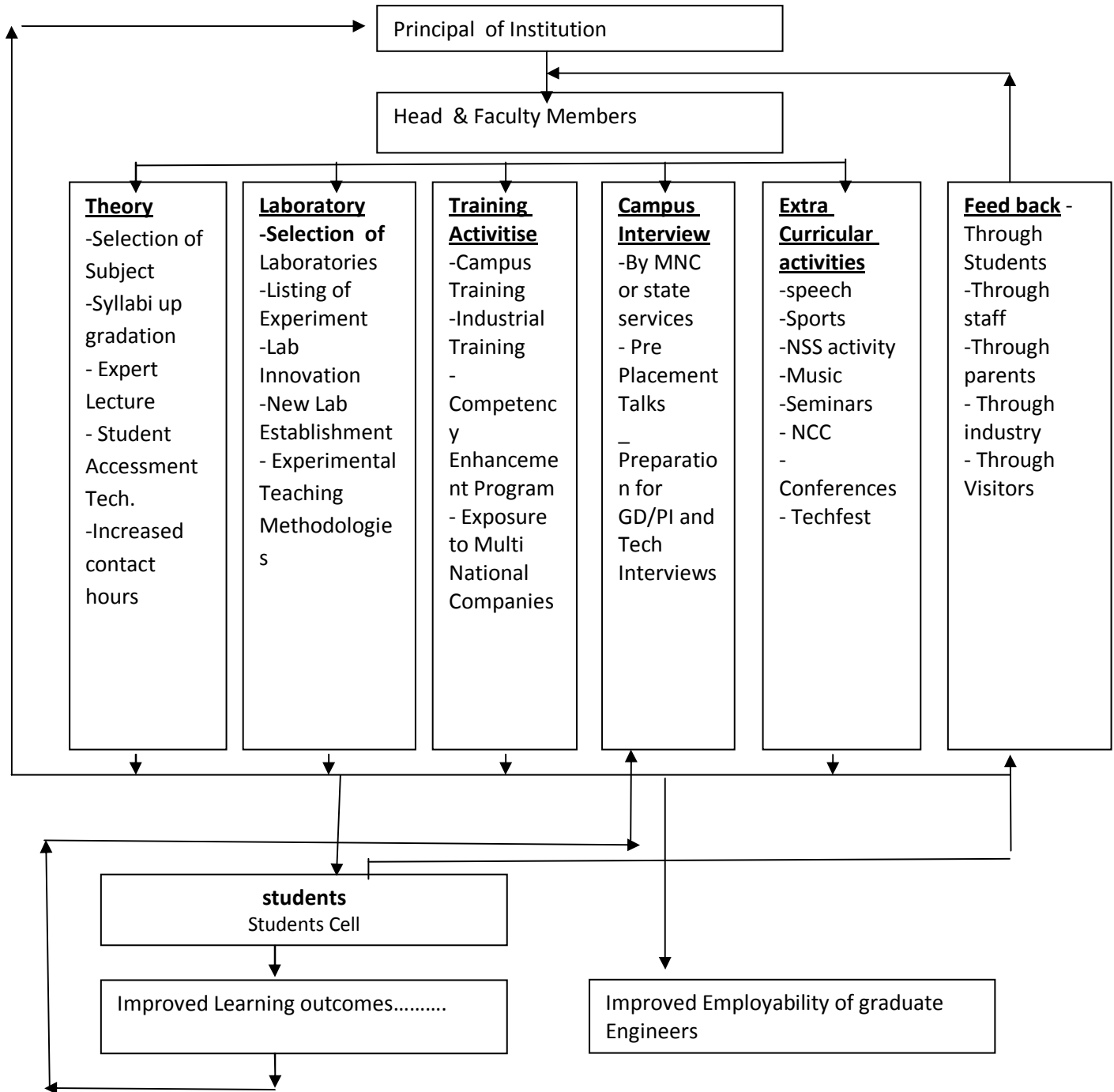


Table-2 Action Plan for Improving Employability and Learning Outcome of Students

(c) Obtaining autonomous institution status within 2 years

GEC Raipur is affiliated by Chhattisgarh Swami Vivekanand Technical University, Bhilai. Govt. of Chhattisgarh in principle agrees to provide academic Autonomy to the college under this project.

Activities-

- Formation of Board of Governors.
- Formation of Academic Council .
- Formation of Finance Committee
- Formation of Purchase Committee.
- Formation of Administrative Committee
- Formation of Students Affairs Committee.
- Formation of Advisory Committee.
- Formation of Training Placement Cell
- Formation of Institutional Development Cell

So formed committees will maintain the status of autonomy in the institution.

(d) Achieving the targets of 60% of the eligible UG & PG programmes accredited within 2 years of joining the project and 100% accreditation obtained and applied for by the end of the Project of the eligible UG & PG programmes.

The National Board of Accreditation, established in Sep 1994 is entrusted with the task of evolving a procedure for quality assessment and accreditation process for Engineering Education Programs to international standards. This institution is fully acquainted with identifying the parameters to quantitatively assess the several criterion and it is on trial to generate the Self Assessment Report. The major challenges are given below:-

- Establishment of New labs and up gradation of existing labs
- Regular Faculty and Student Ratio.
- Campus Infrastructure Facility.
- Computer Center and Networking.
- Placement & Professional Activities.

By overcoming the deficiencies 60% courses will be NBA accredited within 02 years.

(e) Implementation of academic and non academic reforms (details given in Annex-I)

Implementation of academic & Non-academic reforms:-

It is required to fix up the guidelines and implementation of academic & non academic reform activities. These are being pointed out as follows:

- The BOG is required to be constituted at this institution as per Chhattisgarh/UGC rules.
- The exercises toward obtaining autonomous status for this institution are to be performed in several steps.
- Delegation of powers towards principal & head of Department. All powers will be vested in BOG.
- The Principal should ensure that opinion of all stake-holders on the issues related to Institution governance is available to BOG through their presentation in concerned committee.

- Allocation/Re allocation of Block grant to expenditure categories except salaries.

- Establishment and opening of saving A/Cs for corpus fund, Faculty development, equipment replacement and maintains found.
- Revenue Generation by consultancy Projects, continuing project continuing education, sponsored research project; III program etc.
- Following up faculty and staff vacation.
- Students admission & their examination activation.
- Student evaluation scheme
- Performance appraisal of faculty by students and faculty counseling
- Faculty incentive etc.

(f) Improving interaction with industry

- This institution will form an Industry-Institution Interaction cell to establish the purposeful interaction between Industry & Institute.
- The main Objective of IIC is to explore and identify the common awareness of interaction with industry as per requirements of the institution.
- The purposed constitution of the cell is on follows.
 1. Director/Principal of Institution – Chairman
 2. Co-coordinator of the Cell - Convener
 3. TPO Officer - Member
 4. HOD & One faculty from every department – Member
 5. Two members from Industry - Member

Industry-Institution Interaction cell activities

- Conduction of Industrial training & orientation courses.
- Guest lectures, workshops, seminar & conferences.
- R&D and consultancy work and continuing education action program
- Development of faculty & shareholders
- Organizing industrial exhibition & curriculum development programs etc.
- IRG Inceasibility & absorptions of students in industry.

(g) Enhancement of research and consultancy activities

With the implementation of Academic and Non Academic reforms the learning outcome of students will increase as well as the staff and employee knowledge and personality will be developed. In this way the overall development, modification and modernization of Labs will be taken care. All above activities will lead to enhance Research and consultancy services in the coming years.

2.5 Provide an Action Plan for Organizing a Finishing School and for improving the academic performance of SC/ST/OBC/academically weak students through innovative methods, such as remedial and skill development classes for increasing the transition rate and pass rate with the objective of improving their employability.

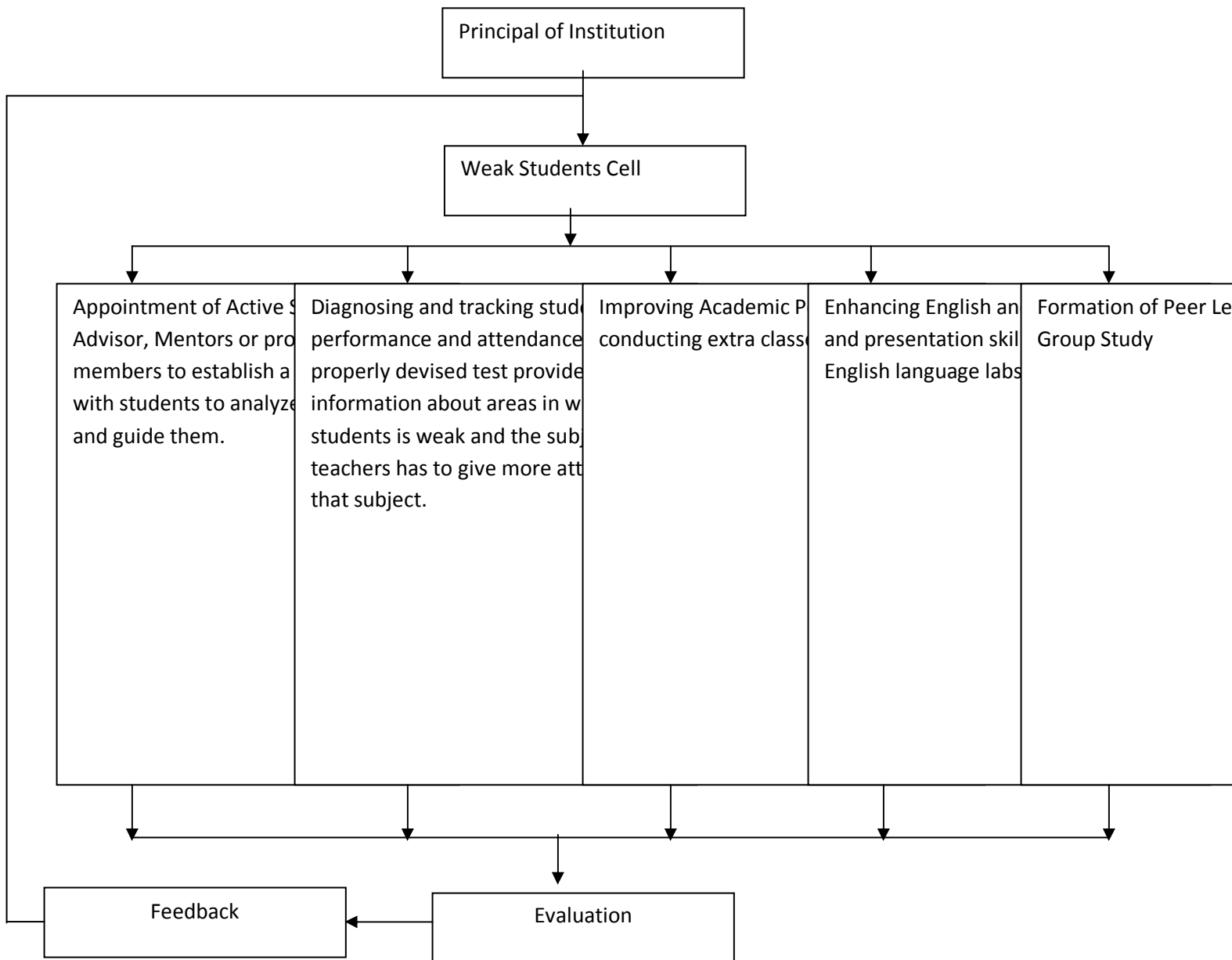


Table -3 Action plan for improving the academic performance of SC/ST/OBC academically.

2.6 Provide an Action Plan for strengthening of PG programmes, if any and starting of new PG Programmes.

Presently the institution do not have any Postgraduate Programme. Under this project it is under consideration to start PG Program in Civil and Mechanical Engineering streams.

2.7 Attach a summary of Training Need Analysis carried out. Also, Provide Faculty Development Plan for the first 18 months for improving their teaching, subject area and research competence based on Training Needs Analysis (TNA) in the following areas.

- Basic and advanced pedagogy
- Subject / domain knowledge enhancement
- Attendance in activities such as workshops, seminars
- Improvement in faculty qualifications
- Improving research capabilities

The Training Need Analysis carried out in April 2010. Based on this analysis the summary of TNA is as follows:

Support and Technical Staff

In general Academic departments do not have administrative / financial support except few technical support staff. None of the available technical supporting staff have undergone training in last two years. Only three administrative / office assistant has attended long term program in areas like Computer Training and Hindi Typing.

Teacher

Four number of faculty members have attended short term training program of 1-3 days duration. Two HODs have undergone training in their content areas of 7 to 15 days duration. Two (2) out of four regular faculty acquired PhD.

Class IV Staff

Twenty nine (29) out of 46 no. of class IV staff in general have indicated short term training of one week to 3 months in areas like – Attitudinal & Mind set change, Personality Development, Computer training, MS Office & advance learning in their relevant occupational areas. Most of them have specified as training from reputed institute like NIT, NITTTR Bhopal etc.

Technical Support Staff

Sixteen (16) technical support staff members from different departments have expressed their training needs. Staff from Computer Science & Engineering, Electrical & Electronics Engg. and Electronics & Telecommunication Engg. has indicated their willingness who undergo training in areas like – Communication skills, Computer training – MS Office, Computer hardware and networking, Maintenance of lab equipment. Staff from Mechanical Engg., Workshop, Civil Engineering has indicated their training needs in areas like-Personality Development, Testing & Calibration, Computer Training and CNC Machine, Surveying, Operation & Maintenance of Laboratory Equipment in their respective disciplines etc. The period desired for training is mostly 3 to 6 months duration. Some of them have specified the name of institute as NIT Raipur, NITTTR Bhopal and some have also mentioned as training from reputed institute. The support staff has also indicated certain kind of long terms programmes (6 to 12 months duration) for their professional development. These include Computer training, Computer hardware maintenance, Diploma in their respective field from local institute on part time basis.

Administrative Staff

Twelve out of 27 administrative staff personnel have expressed their training requirements. Most of administrative staff has indicated their willingness to undergo training in areas like-Accounting through computer, computer hardware & networking, Maintaining & Processing of service record and office management etc. Faculty (Ad-hoc and Contractual)

Faculty (Ad-hoc and Contractual)

Twenty two nos. of teachers from the college have expressed their need to get develop through training and development activities apart from qualification up gradation. The nature of short term training programme mainly relate to following broad areas.

S.No.	Broad Area	Nature of Short Term Training Programme
1	Pedagogical and Teaching Learning Process	Effective Teaching Methods, Curriculum Development, Student Assessment, Design of Question papers, Lab assessment, Modernization of lab, Industrial Training
2	Discipline Based Content updating Programme	Most of the faculty members have indicated need of advance Training programme in their respective discipline. The title of Training programme indicated in proforma.
3	Management Development Programme	Budgeting, Financial Management, NBA Accreditation, Institutional Building, Managerial & Administrative Skills Development, Attitude & Motivation Development.

The I/c Principal has also specified training in area like – Leadership, Management of institution, Financial and administrative autonomy, NBA Accreditation and attitude & Motivation development. As regards long term training programmes teachers have expressed their willingness to undergo six months industrial training in industries like NTPC Bilaspur, Bhilai Steel Plant, and Cement Plants etc. Most of the contract teacher have expressed their need to upgrade their qualification by pursuing M.Tech./M.E./Advance Research in respective areas from reputed National/International Institute like – IIT's, NIT's, NITTTR's etc.

The following table shows the plan for the first 18 months for improving their teaching, Subject area and research competence based on Training Need Analysis

S.No.	Activities	Project Months															
		1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24	25-27	28-30	31-33	34-36	37-39	40-42	43-45	46-48
1	Purchase of Equipments /Furniture & Books	√	√	√	√												
2	Accreditation Work			√	√	√	√										
3	Academic Improvement of weak student	√	√	√	√	√	√										
4	Training Programs			√	√	√	√										
5	III/CE Program		√	√	√	√	√										
6	Obtaining Autonomy	√	√	√	√	√	√										
7	Curriculum Reforms			√	√												

2.8 Provide an Action Plan for training technical and other staff in functional areas.

Training of Technical & Non Technical staff

- Principal of Institution will nominate a training and placement Officer from faculty members to ensure the activities of training towards technical & nontechnical staff.
- TPO may organize the training program depending upon the resources by two ways:
 - (a) Internal campus training Program me
 - (b) Training program by certain external expert group.
- For Both the training program it will be required to short-list the various types of training to be undergone.
- Pedagogical training program should be fix-up for training providers
- Training provider must adopt conceptual methodology for development of Technical/Non-technical staff.
- For Internal campus training program, the headers from the faculty members should be nominated departmentwise for conduction of training programs further staff.

2.9 Describe the relevance and coherence of Institutional Development Proposal with State's/National (in case of CFIs) Industrial /Economic Development Plan.

With a view to any development plan we mean that the machinery whether it is institution or Industry or state of the national level, economic development will be benefited and their performance major will be better than the current environment it will be required about the decision of Input/Output with proper conditional environment .

The property of relevancy and coherence, We think that exists almost the same amongst all the three development plans. It is always required to have the improved degree of quality and performance that is possible only when we follow up certain well developed plan with multidimensional dynamic features.

2.10 Describe briefly the participation of departments/faculty in the proposal preparation and implementation.

To prepare the Institutional Development Proposal Principal Govt. Engg. College, Raipur has constituted Planning and Execution committee. All the department and concerned members have participated actively to accomplish the work.

2.11 Describe the Institutional project implementation arrangements with participation of faculty and staff.

The Institutional project implementation arrangements under TEQIP II may also be treated following the action plan in Table I, II and III and article 2.10 of this project.

2.12 Provide an Institutional project budget in Table-29.

Table – 29 Institutional Project Budget for Sub- Components 1.1

[Note: for details of permissible and non-permissible expenditures, please see Table-18 (for Government funded and aided institutions) and Table-19 (for provide unaided institutions)]

(Rs. In Crore)

SN		Project Life Allocation	Project Financial year				
			2015-16	2016-17			
1	Infrastructure improvement for teaching, Training and learning through:						
	(i) Modernization and strengthening of laboratories	3.00	1.50	1.50			
	(ii) Establishment of new laboratories for existing UG and Pg programmes and for new PG programmes						
	(iii) Modernization of classrooms	0.05	0.025	0.025			
	(iv) Update of Learning Resources						
	(v) Procurement /of furniture	0.40	0.20	0.20			
	(vi) Establishment / Upgradation of central and departmental Computer centers						
	(vii) Modernization and strengthening of libraries and / or access to knowledge source	0.30	0.015	0.15			
	(viii) Modernization and strengthening of libraries and increasing access to knowledge resources						
	(ix) Refurbishment (Minor Civil Works)*						
2	Provident Teaching and Research Assistantships to increase enrolment in existing and new P&G programmes in Engineering disciplines						
3	Enhancement of R&D and institutional consultancy activities*						
4	Faculty and staff Development (including faculty qualification upgradation, pedagogical training and organizing/ participation of faculty in workshops, seminars and conferences) for improved competence based on TNA						
5	Enhanced Interaction with industry	0.02	0.01	0.01			
6	Institutional management capacity enhancement						
7	Implementation of institutional reforms						
8	Academic support for weak students under the aegis of Finishing School	0.05	0.025	0.025			
9	Technical assistance for procurement and academic activities						
10	Incremental Operating Cost	0.30	0.15	0.25			
TOTAL		4.12	2.06	2.06			

2.13 Provide the target against the deliverables listed in Table- 30

Project Targets for Institutions under sub-Component 1.1

Sn	Deliverable	Base line	Targets to be achieved	
			At the end of 2 years Joininigs the Project	By Project closing
1	Number of students registered for (a) Masters in Engineering programme (b) Doctoral programme in engineering		Civil 12 NIL	Mech 12 05
2	Revenue from externally funded R&D projects and consultancies in total revenue (Rs. in lacs)		20	50
3	Number of publications in refereed journals (a) National (b) International		20 04	50 10
4	IRG as % of total annual recurring expenditure		10%	15%
5	Number of co-authored publications in refereed journals (a) National (b) International		40 10	100 20
6	Student credentials (a) campus placement rate of • UG students • PG students (b) average salary of placement package for (Rs. in lacs) • UG students • PG students		75% NA 3.0 lakh 5.0 lakh	100% 75% 5.0 lakh 8.0 lakh
7	Number of collaborative programmes with industry		05	10
8	Accreditation status (obtained and applied for)		Minimum 60% required	100% eligible UG & PG programme obtained and applied for
9	Vacancy position for faculty and staff		Vacancy reduced to 10% or less	Zero
10	Percentage of regular faculty having a Masters Degree or a Doctorate Degree in Engineering disciplines		Increased by 20% and 10% respectively	
11	Transit rate from 1 st to 2 nd year for the following • All Students • SC & ST Students • OBC Students • Women Students		90% 40% 40% 60%	95% 45% 45% 65%
12	Autonomy status		Required to be obtained	----
13	Enrollment of faculty with only Bachelor degree for qualification upgradation		At least 50% at the parent institution or 25% at other institution	At least 75% at the parent institution or 50% at other institution
14	Any other academic deliverables (maximum 3)			
(i)	NA	NA	NA	NA
(ii)	NA	NA	NA	NA
(iii)	NA	NA	NA	NA

Note: The accreditation targets for undergraduate and postgraduate programme are for **NBA accreditation of programmes**

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

The TEQIP II committee formed by the principal, Government Engineering College Raipur will ensure the activity towards the development of the work area and for this, a meeting may be called up by every three months. The Various policies may be incorporated to sustain the activities after the end of project as per the action plan out line in Table-1, 2 & 3 of this project.

2.15 Provide a Procurement Plan for the first 18 months for Goods and Civil Works in TABLE – 31 and Consultant Services in Table – 32 with budget and timeframe.

Table-31: 18 MONTHS PROCUREMENT PLAN FOR WORKS/ GOODS* FOR SUB- COMPONENTS 1.1

Name of the institution with location: Govt. Engg. College, Sejbahar, Raipur (C.G.)

Package No.	S o n	Activities	Disription of works/ goods	Estimated Cost crore	Method of Procurement	Dizine/Investigation Completed/ Specification Finalization	Estimate Setion (date &value)	Preparation of Bid document (date)	Banks no objection Bidding document (date)	Bids		Contract award (date and value)	Date of Completion of Contract
										Invitation (Date)	Opening (Date)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	1	Planning & Development	Equipme nt	10	As per World Bank Norms	01.07.2015	---	15/08/2015	NA	15/10/201 5	20/10/201 5	25/10/201 5	29/03/16
2	2		Furnitur	2.5	As per World Bank Norms	01.07.2015	---	15/08/2015	NA	15/10/201 5	20/10/201 5	25/10/201 5	29/03/16
3	3		Books	1.0	As per World Bank Norms	01.07.2015	---	15/08/2015	NA	15/10/201 5	20/10/201 5	25/10/201 5	29/03/16

* Goods covers Equipment, Furniture and Books & Learning Resources

** Applicable in case of 'Prior Review' by Bank.

Note: For Column 5, state ICB/NCB/Direct Contracting/Shopping as appropriate

Table- 32

**Table-5 : 18 MONTHS PROCUREMENT PLAN FOR CONSULTANT SERVICES FOR
Sub –Component 1.1**

Name of the institution with location: Govt. Engg. College, Sejbahar, Raipur (C.G.)

SL No.	Activities	Description of Services	Estimated Cost (Rs)	Methods of Selection @	TOR Finalization (Date)	Advertisement (Date)	◆RFP Final Draft to be forwarded the Bank (Date)**	No Objection from Bank for RFP (Date)**	RFP Issued (Date)	Proposals Received (Date)	Evaluation (Date)	No Objection by the Bank (Date)**	Contract Value & Date of award	Contract Completion (Date)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	NA													
2														

◆RFP (Request for Proposal): Same as 'Bid Document' #Technical and Financial

** Applicable in case of 'Prior Review' by Bank

@ State whether (i) Single firm or individual; or (ii) Competitive. If Competitive, then state whether Quality and Cost Based Selection (QCBS) or Quality Based Selection (QBS) procedure

2.16.1 Provide any other information related to special academic achievements as given in Eligibility proposal of the institution.

It is one of the most renowned technical institute having good potential to provide the quality education and infrastructural facilities. The highly eminent teachers and congenial academic atmosphere of the institute make it different from the other entire institute. Various Industries in Raipur and surroundings have always been availing research and development facilities and required academic support to new budding graduates for their needs from the institute. These industries are also giving the institute a unique advantage of industry institute interaction in various disciplines.