

INSTITUTIONAL DEVELOPMENT PROPOSAL

FOR

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP) PHASE-III

for

Sub-component 1.1

Institutional Development for Participating Institutions



**Jawaharlal Nehru
Government Engineering College
Sundernagar, District Mandi, HP- 175018**

1. INSTITUTIONAL BASIC INFORMATION

1.1 Institutional Identity

Name and address of the Institution Jawaharlal Nehru Govt. Engg. College,
Sundernagar, Distt. Mandi, H.P.-175018

Year of Establishment 2006

Is the Institution AICTE approved :Yes

Furnish AICTE approval no. :F.No. North-West/1-2813872957/2016/EOA
Dated 5th April, 2016

Type of Institution :Govt. Funded

Status of Institution : Non Autonomous.

Name of Head of Institution :

Head of the Institution	Name	Phone Number	Mobile Number	Fax Number	E-mail Address
<u>Director/ Principal</u>	<u>Prof. Raman Parti</u>	<u>01907-267199</u>	<u>94180-82478</u>	<u>01907-267199</u>	ramanparti@yahoo.com jngechp@yahoo.co.in

1.2 Academic Information:

- Engineering UG Programs offered in Academic year 2016-17:

S. No.	Title of Programs	Level	Duration (Years)	Year of Starting	Sanctioned annual Intake	Total student strength
1.	Mechanical Engg.	UG	4 years	2006	60+3*	63
2.	Textile Engg.	UG	4 years	2006	60+3*	63
3.	ECE	UG	4 years	2010	60+3*	63
4.	Civil Engg.	UG	4 years	2010	60+3*	63

- NBA Accreditation Status of UG programme as on 31st December, 2016 :**

J. N. Government Engineering College has applied for NBA accreditation of 03-UG programmes as per detail mentioned below:

S. No	Name of the UG Programme for which NBA accreditation applied for	Date of applying to NBA	No of Programme Accredited	No of Programme applied for	Remark
1.	Mechanical Engineering	05-11-2013	Under Process with NBA	03-Programmes	e-SAR and Pre-Qualifier have been submitted to NBA
2.	Textile Engineering	05-11-2013	Under Process with NBA		
3.	Civil Engineering	03-03-2016	Under Process with NBA		Pre-Qualifier has been submitted to NBA

Status of faculty associated with teaching engineering students (regular and contract as on 31st December, 2016)

Rank Faculty	No. Of Sanctioned Regular posts	Present Status: Number in Position												Total number of Regular Faculty	Vacancies	Total Number contract faculty in
		Doctoral				Masters				Bachelor						
		Engg. Discipline		Other Discipline		Engg. Discipline		Other Discipline		Engg. Discipline		Other Discipline				
		R	C	R	C	R	C	R	C	R	C	R	C			
Total	63	2*	1	1	3	3	27	2	5	1 [#]	7	-	-	9	11	43

R-Regular, C-Contract

*including Director/Principal

including Training Placement Officer

2.1 Give the Executive Summary of the IDP (max 2 pages).

2.1.1 EXECUTIVE SUMMARY

INTRODUCTION

Jawaharlal Nehru Government Engineering College, Sundernagar was established in 2006 located in Mandi District of Himachal Pradesh. This institute was opened with two branches Mechanical and Textile engineering. Later on, 02 more branches Civil Engineering and textile Engineering were added to cater scarcity of technical professionals around the globe.

This institute has following Vision and Mission:

Vision

To impart quality technical education with skills and creativity dedicated to innovation and excellence that will prepare the students for leadership roles and socio-economic growth of the nation.

Mission

To deliver technical education programs and services that recognizes and embraces the importance of interdisciplinary collaborations and meet the changing needs of society and industry through excellence in education and research thus contributing to the advancement of society which will include:

GENERAL OBJECTIVES:

1. To impart quality technical education to cater the current and future needs of the industry and society.
2. To recruit, nurture and retain outstanding faculty, students and staff for excellence in human resources.
3. To improve Teaching, training and Learning through continuous assessment.
4. To promote research and consultation that address the immediate and long term needs of the society.
5. Continue to develop and maintain an adequate infrastructure for academic excellence.
6. To create and maintain a strong relationship with society and industry in particular to cooperate in the economic development of the country.

SPECIFIC OBJECTIVES:

- To strengthen the institution in terms of academic and management capacities:
- Faculty and Staff Development for improved competence
- To increase learning outcomes of the students
- To improve employability of graduates:
- To improve Industry-Institution Interaction:

- To improve Teaching, Training and Learning facilities:
- To modernize and strengthen the Library:
- To start new PG programmes:
- To implement institutional reforms:
- To provide academic support for weak students:

Financial Requirement:

Rupees in Lacs

S. No.	Activities	Project Life Allocation	Financial Year						
			2017-2018	2018-2019	2019-2020				
1	Infrastructure improvements for teaching, training and learning through:	600	80	90	75				
	(i) Modernization and strengthening of laboratories								
	(ii) Establishment of new laboratories for existing UG and for new PG programmes (if started)								
	(iii) Modernization of classrooms*								
	(iv) Updation of Learning Resources								
	(v) Procurement of furniture								
	(vi) Establishment/Upgradation of Central and Departmental Computer Centers								
	(vii) Modernization/improvements of supporting departments*								
	(viii) Modernization and strengthening of libraries and increasing access to knowledge resources								
	(ix) Refurbishment (Minor Civil Works)								
2	Providing Teaching and Research Assistantships to increase enrolment in existing and new PG programmes (if started)	300	10	10	10				
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								
6	Institutional management capacity enhancement								
7	Implementation of institutional reforms								
8	Academic support for weak students under the aegis of Finishing School								
9	Incremental Operating Cost								
TOTAL							330	330	340
Grand Total						Rs 1000 Lacs			

Expected Outcomes:

1. Institution is getting strengthened by:
 - a. Obtaining academic autonomy status from UGC within project duration.
 - b. 100 percent eligible UG accredited within 4 years.
 - c. Conducting four BOG meetings during every year of project implementation for monitoring project progress and take corrective measures accordingly.
 - d. 100 percent trained institutional officials and senior faculty for increasing internal and external efficiency of the institution.
 - e. At least 10 MoUs with Reputed Institutions and Industries.
 - f. 100 percent overall students, faculty and parent satisfaction by conducting survey.
2. Human Resources-Faculty and Staff:
 - a) 100 percent Faculty members with M.Tech and as many PhD Qualifications as possible drawn from industries, R&D organizations and academics.
 - b) 10 percent of external revenue from Training, Research and Consultancy projects.
 - c) At least 02 publications in refereed national and international journals by each faculty in every year.
3. Human Resources – Students:
 - a. Increase percentage placement rate for UG students from 55% to 80%.
 - b. Attract high payment companies by consistent efforts.
 - c. 90 percent results in all branches of Engineering and get more university ranks and distinctions.
 - d. Improvement in the academic performance of SC, ST, BC and other academically weak students from 55 percent to 90 percent.
 - e. Increase in transit rate from 1st to 2nd year for all the students from 60 percent to 90 percent.
4. Departments:
 - a. Get existing UG laboratories modernized and strengthened.
 - b. Get advanced equipments for training, research and consultancy as per latest industry requirements.
 - c. Admit B.Tech students for PG and for Doctoral Degrees.
 - d. Continuously upgrade learning and research facilities with project funds.
 - e. Get all department libraries modernized (digital) and strengthened.

2.2 Provide an action plan with timelines for :

(a) Improving the learning outcomes of the students:

2.2.1 Faculty training (qualification upgradation, subject upgradation & research competence, Pedagogical training, participation in conferences, seminars/workshops etc.)

Jawaharlal Nehru Government Engineering College, Sundernagar has very young and dynamic faculty members in almost all department of Engineering and basic sciences which is strength of the institutions.

The institution has 08 nos. faculty possessing B.Tech degree who will be sponsored from TEQIP funds:

- For qualification upgradation to M.Tech degree in concerned field.
- Improvement in Teaching, Learning & Research Competences.

Institution has 30 faculty members possessing M.Tech degree in Engineering and Basic Sciences who will be sponsored:

- For qualification enhancement to Ph.D degree from reputed institutions like IITs, NITs etc.
- Improvement in Teaching, and Research Competences.

The faculty members of the college shall be encouraged to attend conferences, seminars/workshops etc. so that subject knowledge of the faculty members can be enhanced.

The following activities shall be carried out:

- Training in pedagogy and management capacity development.
- Training in content up-gradation (both in-house and outside).
- Faculty deputation for Ph.D. programme and higher studies.
- Encouraging and sponsoring faculty for workshops and conferences
- Providing training to technical, support and administrative staff in selected areas (both in-house and outside)

Basic and advanced pedagogy training

Basic and Advance pedagogy training programmes shall be arranged in the institution so that knowledge domain of the faculty members can be enhanced.

The following steps will be taken:

- Basic and advanced pedagogy trainings shall be organized in the institution
- Subject / domain knowledge enhancement programmes.
- Attendance in activities such as workshops, seminars, etc by the faculty members..
- Improvement in faculty qualifications for sponsoring faculty members for qualification up gradation.
- Improving research capabilities

Subject / domain knowledge enhancement

To enhance subject knowledge of faculty members and students, the following activities will be undertaken during this project

- Conducting 04 workshops/conferences/STC by each Department during TEQIP-III project.
- Conducting training programmes for improving efficiency, governance, productivity and responsiveness.
- Conducting continuous training programmes for basic and advanced pedagogy and domain knowledge enhancement
- Enhancing number of participation in conferences, workshops and seminars
- Arranging qualification improvement programmes for faculty
- Organizing programmes for exposing professional ethics.

Attendance in activities such as workshops, seminars, etc.

To enhance attendance of faculty members in workshop, seminars, conference etc. the following activities will be undertaken

- Faculty members shall be sponsored to attend workshop/seminar/conference/FDPs in other institutions.
- Subject related workshop/seminar/conference/FDPs by all department shall be organized with in institution.
- To enhance attendance, faculty members shall be paid TA/DA/Boarding & Lodging as per TEQIP-III rules for attending workshop/seminar/conference/FDPs in other institutions.

Improvement in faculty qualifications.

The institution has 08 nos. faculty members having B.Tech degree and 30 faculty members possessing M.Tech degree in engineering and basic sciences who will be sponsored for qualification up gradation under TEQIP project.

To enhance improvement in faculty qualification, following activities shall be undertaken.

- Faculty members possessing B.Tech and M.Tech degree shall be sponsored to IITs, NITs and other premier institutions of the country for qualification upgradation.
- If faculty is enrolled for qualification upgradation either through full-time or part-time or by sandwich joint arrangement other than the parent Institution, they will be allowed to pay Fees charged for course work, registration fee etc., Use of research facilities Consumables, Expenses towards thesis printing and publication of thesis-based research papers
- If faculty is registered for qualification upgradation on full-time or part-time basis within the parent Institution : Consumables, Expenses towards thesis printing and publication of thesis-based research papers

2.2.2: Staff training (Technical & Administrative staff)

Technical and Administrative staff shall be deputed to undergo training to enhance capability in their domain work in reputed institutes offering such training programmes.

The following areas are broadly identified in which the training are proposed:

- Medium and short term training courses are proposed in their domain areas (like web technology, Linux administration, networking, data base management, common software packages like MATLAB, MULTISIM and repair & maintenance of lab equipment etc).
- Further the technical and support staff are to be trained for supervisory and skill development in using state of the art equipment and technology.
- Medium and short term training programs for newly appointed technical staff to carry out routine laboratory tests as per international standards.
- Medium and short term training courses are proposed in office automation.
- Communication skills Training Programmes for instructors, office staff & library staff Maintenance (upkeep) of records and office procedures shall be organized within the Institution.
- Carry out on-the-job training for both technical and non-technical staff within and outside the institute .
- Further, the institute intends to impart training and send the staff for outside training during summer and winter vacation so that the academics activities may not be affected.
- In addition to training in the field of one's specialization/trade, the institute intends to give basic exposure of computer operation to all staff (technical and non technical) of the institute.

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

This institution has applied for NBA accreditation in the following programmes:

- Mechanical Engineering
- Textile Engineering
- Civil Engineering

AICTE has made mandatorily to have at least 01-NBA accreditation programme to start another 01- engineering programme in the institution.

After obtaining NBA accreditation, institution has planned to add following programmes

- B.Tech in Computer Science and Engineering from the academic session 2018-2019 with intake of 60 students.
- M. Tech in Mechanical Engineering and Civil Engineering with intake of 18+ 5* (*sponsored seats).
- Department of Civil Engineering has submitted proposal to Himachal Pradesh technical University, Hamirpur for starting of PhD programme in Civil Engineering at JNGEC, Sundernagar from the academic session 2017-2018.

2.2.4 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.

Institution has 01- smart class room with the seating capacity of 60 persons. Online classes, NPTL lectures, ICT based short term courses are being organized in this smart class room. Institution is planning to develop 05 more smart class rooms under TEQIP-III project as per detail below

- One smart class room in each department with seating capacity of 60 students.
- All modern facilities like laptops, wireless projectors, LCD screen for video conferencing, WiFi connections will be established in these smart class rooms.
- At present, the institute has **100 mbps** speed lease line from NKN to provide internet facility through broadband connection and through WiFi to faculty, staff and students of the college. In addition to this, institute is planning to take **50 mbps** additional Internet Back up from other service providers.
- Planning and Installation of IP based cameras or non IP Based Cameras in Computer Centre, Smart class and campus for security and surveillance purpose.
- Air Conditioning system for server room and networking devices.
- UPS with batteries for electricity backup for computers in Computer centre and other planned smart class rooms.

- Software License Renewal, Computers, Printers for newly recruited faculty members and Portable Hard Disks

e-Library:-

Presently, Institute library has 10,048 books pertaining to Civil Engg, Mechanical Engg, Textile Engg, ECE and Basic Sciences with 2050 titles. In addition to this, library has subscribed 03 e-journals, 21 print journals, 20 magazines and 10 newspapers.

- To strengthen our library, this institution has prepared action plan which will be undertaken in TEQIP-III project

Action Plan for Central Library of the institute.

Sr. No	Description of items	Details	Approx Cost in Lacs
1.	E-Books	E-Books of Civil ,Electronics, Mechanical and Textile Engineering and Applied Science and Humanities	20
2.	Books	Books of Civil ,Electronics, Mechanical and Textile Engineering and Applied Science and Humanities and General Books.	15
3.	E-Journals	E-Journals pertaining to Civil ,Electronics, Mechanical and Textile Engineering and Applied Science and Humanities	30
4.	Automation of Library	Digitalization of record of Library, digital issue and receipts of Books, Software for Library management	10
5.	Furniture	Chairs, Tables and Book Racks	7
6.	AC for Library	Centralized Air conditioning in the library are required	15
7	Journals	Journals for Civil ,Electronics, Mechanical and Textile Engineering and Applied Science and Humanities	3
TOTAL			100 Lacs

2.2.5 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

Institution will constitute Finishing School under which necessary subject related and communication skill sessions will be arranged for SC/ST/OBC/academically weak students so that academic performance of these students can be enhanced.

The Action plans for improving transition rate:

- Ensure all available scholarships in the institution for supporting financially needy students.
- Conduct remedial classes on difficult subjects apart from regular class hours and on holidays
- Conduct evaluation of their studies through class tests
- Engaging the students by giving assignments on simple topics and gradually increasing the gravity of topics
- Make them answering of university pattern questions and convince them about their performance in it
- Mentoring needy students.
- Provide counseling by External experts to needy students.
- Conducting Soft skill training for improving communication skill
- Arranging special coaching classes for improving their analytical, verbal and technical skill sets which are required for improving their employability.
- Setting up of a counselling cell in the campus and regular sessions of experts in the field of engineering.

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

J.N. Government Engineering College, Sundernagar is affiliated to

- H.P. Technical University, Hamirpur
- This university is established in the year 2010 by an Act of Legislative Assembly of Himachal Pradesh with an objective for value creation and welfare of society through technical education training, research, innovation, entrepreneurship and continuing education programs.
- University has introduced new curriculum in the year of 2012 for all branches of engineering.
- University, further revised curriculum and introduced Choice Based Credit System (CBCS) from the academic session 2015-2016.
- This system is an instructional package developed to suit the needs of students to keep pace with the developments in higher education worldwide taking him/her out

of isolated compartmentalized learning environment which clearly indicates for each level of certification learning effort required on the part of the student in terms of credits to be earned as well as participation in instructional hours to be spent through either regular mode or through distance education mode.

(b) Improving employability of the students

2.2.7 Increasing interaction with industry (What are the industries located in the vicinity? What role of industry is perceived for the institute?)

Sundernagar is located in Distt Mandi and on National Highway 21 which is about 82 Km from Bhuntar airport and about 105 km from nearest Kiratpur Broad Gauge Railway Station. Institution has constituted an Industry-Institute interaction cell. This cell will have great bearing on the Engineering Curriculum, exposure of industrial atmosphere to engineering students and subsequent placement of young graduating engineers in industries across the country. With the advent of globalization and opening up of Indian economy to outside world, competition among industries has become stiff. To solve their engineering problems they look up now to engg. Institutions. Similarly, there is an urgent need to prepare engineering students for jobs in multinational companies, by exposing them to newer technologies and engineering methodologies. These objectives can only be achieved well by bridging the gap between industry and the academic institute.

In the vicinity of the institution there are number of reputed multi national companies in the area of Baddi, Distt. Solan and nearby state of Punjab like Vardhman Group, Nahar spinning. TVS, Fevicol, Indofarm, Sonalika, IT Park Mohali and IT Park Punchkula and many more.

To Promote Industry-Institute interaction the following action will be taken:

- Establishment of Industry-Institute Partnership /interaction Cell.
- Organizing Workshops, conferences and symposia with joint participation of the faculty and the industries.
- Encouraging engineers from industry to visit Engineering Institution to deliver lectures.
- Participation of experts from industry in curriculum development.
- Arranging visits of staff members to various industry
- Professional consultancy by the faculty to industries.
- Industrial testing by faculty & technicians at site or in laboratory.
- Joint research programmes and field studies by faculty and people from industries.
- Visits of faculty to industry for study and discussions or delivering lectures on subjects of mutual interest.
- Visits of industry executives and practising engineers to the Institute for seeing

research work and laboratories, discussions and delivering lectures on industrial practices, trends and experiences.

- Memoranda of Understanding between the Institute and industries to bring the two sides emotionally and strategically closer.
- Human resource development programmes by the faculty for practising engineers.
- Collaborative degree programmes.
- Short-term assignment to faculty members in industries.
- Visiting faculty/professors from industries.
- Professorial Chairs sponsored by industries at the Institute.
- R&D Laboratories sponsored by industries at the Institute.
- Scholarships/fellowships instituted by industries at the Institute for students.
- Practical training of students in industries.

2.2.8 Student career counseling and placement:

The career counselling provides consultation for academic, personal, social and vocational development, to assist students in analyzing interests, aptitudes, personal traits, values, attitudes and desired lifestyles for suitable employment and educational opportunities. The office provides support for faculty, staff, and administration on the employment trends, standards, and requirements, affecting the particular office or department. Institution has designated faculty members to counsel students of each class on regular basis. These faculty member helps students in academic planning for college and career readiness, enrichment and extracurricular engagement among the students.

(c) Increasing faculty productivity and motivation

2.2.9 Sponsored research, consultancy and other revenue generating activities:

➤ Sponsored research:

The Institute encourages investigation of basic and applied areas of science and technology, and high end technology development in the form of sponsored projects. Research grants for such projects are given by government agencies and industries (both national and international). These projects are usually of 2-5 years duration with periodic appraisals, while research objectives and goals may be refined along the way. Collaborative Projects: Faculty may also participate in collaborative projects with other domestic or foreign partners. In such projects, even though there may be an overall project, there must be a separate budget and scope of work statement to be done by the faculty and staff of the Institute. The summary statement provided to the Institute should

be based primarily on the portion to be done by the Institute. The Institute will treat this like any other sponsored project.

➤ **Consultancy and other revenue generating activities:**

Consultancy work can be taken up to solve problems referred by industries, institutions, government agencies and corporations, societies and any other bodies, including professionals/individuals wherein the professional expertise and knowledge of the faculty members (Consultants) as well as the infrastructural facilities of the College will be utilized. The facilities of the College will be used for the research work, theoretical analysis or experimentation required for generating and validating information in solving the industrial problems. The assignments are heavily dependent on the existing know-how and skill of the faculty members involved. The Institution is already providing consultancy services to Forest Department of H.P and Designing & Drawing of Bridges constructed by Contractors of NHAI. By creating state of art facilities in all disciplines, consultancy services shall be provided to industries, institutions, government agencies and corporations, societies in future also.

2.3 Provide an action plan with timelines for

2.3.1 Obtaining autonomous institution status from UGC

- This Institution has been included in the list of colleges under section 2 (f) & 12(B) of the UGC Act 1956 by UGC vide their letter No. 8-701/2015(ccp-I/C on dated 23rd April, 2016.
- This institution has applied for NBA accreditation in 03 UG programmes out of 04 UG programmes running in the institution and have submitted pre-qualifier for Civil Engineering programme to NBA and e-SAR for Mechanical Engineering and Textile Engineering programme which are under process with NBA.

2.3.2 Improving the NBA accreditation status:

This institution has applied for NBA accreditation in the following programmes:

- Mechanical Engineering
- Textile Engineering
- Civil Engineering
- The pre-qualifier in respect Civil Engineering programme has been submitted to NBA and e-SAR in respect of Mechanical Engineering and Textile Engineering programme has been submitted.

2.4 Describe the following in brief:

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

J.N. Government Engineering College, Sundernagar is a State funded Government Engineering College affiliated to H.P. Technical University, Hamirpur. University plays a vital role in academic reforms like curriculum revision, examination and evaluations etc.

H.P Technical University, Hamirpur can help this institution in following ways:

- Academic autonomy from UGC by forwarding our proposal.
- Allowing this institution to start research programmes (Ph.D) in Engineering and Basic Sciences.
- Allowing this institution to start new PG programmes in Civil & Mechanical Engineering.
- By conducting workshops/training programmes/ faculty and staff development programmes either in University campus or in affiliating engineering colleges.
- University should sign MOUs with other world renown Universities, Colleges for research collaborations, student exchange programmes, trainings for the students, organizing expert lectures by eminent personalities.
- Starting new scholarships schemes for meritorious and economically weak students.
- University should setup a ERP/MIS software system so that student results can be declared at the earliest.
- University should organize curricular and co-curricular activities for students of its affiliating colleges.
- University should revise its curricula frequently based upon latest technologies and demands by including industry personnel in board of study meetings.
- To participate in the training programme collaborated for which MOUs has been signed with in University.
- To collaborate with University in devising a mechanism for uploading student data marks to be proceeded at University level.
- To Sign MOUs with Industries/ other organizations by ATU for providing training to UG students.

2.4.2 Does your BOG need strengthening, if yes, then how?

- BOG should be strengthened for the External Review of the Oversight and Accountability Units is focusing on how effectively the oversight and accountability units contribute to the overall governance framework and support the Board in fulfilling its oversight and fiduciary functions.
- BOG constituted for TEQIP-III project should be vested with financial and administrative powers for the overall developments of the institution. BOG should be strengthened by vesting more powers like recruiting of faculty & staff and retired persons for the smooth functioning of the institute and for betterment of student.
- A review of Delegation of Authority should be initiated to improve delineation of authority and responsibility within Management.
- A constructive relationship between the Board and the plays an important role in ensuring effective institutional governance. In this regard, the Board could continue to identify and implement measures to improve its own performance and effectiveness, particularly through the Self-Assessment exercise.
- The BOG need to strengthen for academic reforms of the institution.
- The role and responsibilities of BOG should be same at all the project participating institutions and shall be decided at NPIU/MHRD level after detailed deliberations so that BOG of all project institutions identify working domain in interest of in making project successful.

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

No, Institution do not have any ERP/MIS system available in the campus. But, planning procure MIS/ERP in future under TEQIP-III project.

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

This institution has young intellectual faculty members in all the departments. To improve GATE score of the students, faculty members of the institute were advised time to time to take extra/special subject related classes for 3rd and 4th year during lunch break or after normal teaching hours in addition to their normal teaching duties. Institution is also planning to hire GATE coaching agency for the students in respective branch so that GATE qualifying percentage by the students can be enhanced.

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).

Institution is in process of signing the MOUs with the high performing institutes like IIT Mandi, NIT, Jalandhar, NIT Hamirpur. MoUs will be signed for upgradation of qualification of faculty members, for fostering research & development activities and improve technical skills of the students & offer better placements.

The various departments of eminent institutions will be requested to identify training needs pertinent to our faculty students, in regard to changing technology will also be done in this project phase.

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?

Himachal Pradesh Public Service Commission recruits faculty for Engineering Colleges by conducting screening test/viva voce. (Nodal agency for the recruitment of Gazetted officer of the H.P. Govt.) At the Govt. level, H.P. Public Service Commission will be requested to expedite the recruitment process.

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

The Institution has planned to sustain after the end of the TEQIP-III project:

- The institute will be depositing at least 8% (tuition fee) of their revenue every year into a Sustainability Fund as practiced in TEQIP-II.
- The Faculty Recruitment envisaged for each focus state will build a system for recruiting and retaining adequate numbers of high-quality faculty. This Plan will be expected to provide a long-term solution to the problem of faculty recruitment and retention (not just during the project period).
- The governance-related reforms under the Project, such as UGC autonomy, high-quality BOG and accreditation will put institute on a long-term path of excellence, which will include innovations in area of Industrial consultancy etc.

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

Director/Principal conducted a meeting with all Heads of Departments, Dean Academics, Training & Placement Officer, Finance Officer, Librarian and Establishment Officer in his chamber regarding preparation of Institutional Development Plan (IDP) for TEQIP-III project to be submitted to MHRD/NPIU in a prescribed format. All Heads were requested to submit report based on IDP format prepare a action plan pertaining to their departments/sections in consultation with faculty, staff and students of respective departments. All Heads convened series of meetings and submitted report and action plan for establishment/modernization of laboratories, Modernization of machinery and Equipments, Organising National & International Conferences /Workshop /Seminar, Enhancement of skill of Faculty, Enlacement & training of soft skill of students, Institute – Industry Interaction, Research & Development/ Consultancy work, Counselling / guidance/arrangements of extra classes for competitive exam, Research oriented projects. Information received from all departments/sections was compiled at the central level and Institutional Development Plan (IDP) for TEQIP-III project was prepared.