1. INSTITUTIONAL BASIC INFORMATION

1.1 Institutional Identity

Name and address of the
 : <u>Atal Bihari Vajpayee Govt. Institute of</u>

Institution <u>Engineering & Technology Pragatinagar</u>

Distt. Shimla Himachal Pradesh 171202

Year of establishment : 10 April, 2011

• Is the Institution AICTE approved? : Yes

Furnish AICTE approval No. : F.No. North-West/1-2814381229/2016/EOA

Type of Institution : Govt. Funded

Status of Institution : Non-autonomous

Name and Designation of : Prof (Dr.) Mithilesh Kumar Jha

Head of the Institution Director-cum-Principal (Full time appointee) Atal Bihari Vajpayee

Govt. Institute of Engineering & Technology

Pragatinagar Distt. Shimla Himachal Pradesh 171202

1.2 Academic Information:

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

S.	Title of programmes	Level (UG,	Duration	Year of	AICTE	Total students
No.		PG, PhD)	(Years)	starting	sanctioned	strength in all
					annual intake	years of study
1.	Computer Science &	UG	4 years	2012	60	243
	Engineering					
2.	Electronics &	UG	4 years	2012	60	214
	Communication					
	Engineering					

NBA Accreditation Status of UG and PG programmes as on 31st December 2016:

Total no of programmes eligible for accreditation (at least one batch pass out): 02

No. of programmes accredited: NA

No. of programmes applied for accreditation: NA

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

		Pr	esent S	tatus : l	Numbe	r in P	osition	by High	est Q	ualific	ation				'n
ost	I	Ooctor	al Degr	ee	1	Master	rs Degr	ee	E	Bachel	or Degi	ree	-Ę		afa
No. of Sanctioned Regular Posts	Gueineerine Diecirline	Englicering Disciplines	Supporting Disciplines (Physics, Chemistry, Maths	and English/ other languages	P. C.		Supporting Disciplines (Physics, Chemistry, Maths	and English/ other languages	P. C.	Englicering Disciplines	Supporting Disciplines (Physics, Chemistry, Maths	and English/ other languages	Total Number of regular faculty in Position	Total Vacancies	Fotal Number of contract faculty Position
	R	C	R	C	R	C	R	C	R	C	R	C			
													14=	15=	16=
1	2	3	4	5	6	7	8	9	10	11	12	13	(2+4+6+8+	(1-14)	(3+5+7+9+
													10+12)		11+13)
6	0	0	0	2	0	4	0	4	0	3	0	0	0	6	13

R=Regular, C=Contract

(Document attached)

${\bf 2.} \quad {\bf INSTITUTIONAL\ DEVELOPMENT\ PROPOSAL\ (IDP)}$

(Implementation period: April 2017 - March 2020

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

Objective of TEQIP-III project:

> The objective of this project is to focus on improving quality and equity in the institute. Also to motivate faculty and the students to work towards the improvement of the institute. In addition to this, to improve the learning outcomes & employability of the students.

Why our institute is participating in the TEQIP-III project?

Firstly, our institute lies in one of the hill states. Therefore, we have been enough fortunate to be able to participate in this project. Secondly, AICTE approvals for starting five branches has already been obtained vide approval No. F.NO.North-West/2013/1-1538283341, dated 30 April, 2013. But currently, only two branches are ongoing. This is because there is an acute shortage of class rooms, upgraded laboratories to meet new technologies, faculty, technical staff, administrative staff, broad band connectivity, Wi-Fi access, smart class rooms, e-library, furniture for class rooms, institute's own guest house, conference/seminar room, accommodation for the faculty, water supply system & hostel facility etc. The list is too long. In fact, our institute is facing many challenges to enhance the enrolment and to improve academic performance of the students. If all facilities were available within the institution, the same could be maximally utilized. Therefore, if our institute joins TEQIP-III project, we shall put all our efforts to overcome the above mentioned short comings on priority basis. Apart from this, institute would emphasise faculty training viz qualification & subject knowledge upgradation, participation in seminars, conferences & workshops. This would directly and indirectly benefit the students.

As communication, presentation & non-cognitive skills and behavioural issues have a bearing on student's performance. Therefore, from time to time, eminent personalities, experts & consultants etc. would be invited to resolve all such issues and problems of the students.

Thus, in nutshell, we can say that in all aspects, TEQIP-III project shall take our institute to a whole new.

- **2.2** Provide an action plan with timelines for : (not more than 1 page for each sub-activity)
 - (a) Improving the learning outcomes of the students
 - **1.** Faculty training (qualification upgradation, subject upgradation & research competence, Pedagogical training, participation in conferences, seminars/Workshops etc.)

Plan		Action (Execution)	Target Year
•	To encourage faculty to upgrade their qualification, subject knowledge and participation in conferences, seminars and workshops etc.	i) Faculty would be encouraged to upgrade their qualification from Bachelors to Masters and Masters to Doctoral Degree by deputing them to other institutions (within India) on part time and other basis whatever shall be feasible. ii) Institute would encourage faculty to upgrade their subject knowledge in order to keep them upto date and aware of the advances in knowledge, technologies & research methodologies for improving their own performances and for the benefit of the students. iii) To give a good exposure on developments taking place in different areas, faculty would be encouraged to participate in seminars, workshops & conferences (both National & International) in collaborations with academic institutions and R&D organizations within and outside the country.	2020
•	To organize Pedagogical training in the institute.	Under TEQIP-III fund of atleast 2-3 Lakhs; institute would execute pedagogical training using latest teaching methodologies for improving the teaching and training competence of faculty which would ultimately benefit the students.	2018

2. Staff training (Technical & Administrative Staff)

Plan		Action		Target Year
•	Training for	i)	Technical staff such as Lab Attendants,	2018
	technical		Workshop Instructors etc would be trained in	
	and		routine maintenance of both the existing and	
	administrati		new equipments. Apart from this, they would	
	ve staff		be encouraged to upgrade their qualifications	
			from Diploma to Degree etc.	
		ii)	Also administrative staff would be trained in	
			the use of office equipments, software, office	
			procedure & maintenance of records etc which	
			would eventually assist the students.	

3. Increasing capacity of UG, PG & PhD education (increasing enrolment and staring new UG, PG & PhD programmes)

Plan		Action		Target Year
•	To enhance	i)	To increase the enrolment in existing two UG	2019
	enrolment		programmes, institute would provide:	
	and starting	>	Scholarships and other incentives to poor,	
	new UG,		physically challenged & meritorious students under	
	PG & PhD		TEQIP-III fund.	
	programme	>	Hostel facilities to poor and physically challenged	
	S		students. Apart from this, friendly infrastructure to	
			physically challenged students under TEQIP-III	
			fund.	
		ii)	AICTE have already approved three new UG	
			Programmes viz Electrical Engineering, Civil	
			Engineering & Mechanical Engineering Vide	
			approval No. F.NO.North-West/1-	
			2814381229/2016/EOA.	
			Therefore, under TEQIP-III project, institute	
			shall offer at least 2 Crore for Civil work to	
			construct new class rooms on priority basis.	2020

4. Investing in smart class rooms, campus Wi-Fi, e-library etc.

Plan		Action	Target Year
•	To invest in e-library	Institute shall invest atleast 14 Lakhs for e-books, e-journals and computer systems under TEQIP-III project.	Within 3-4 months of joining the project
•	To invest in Broad band connectivit y & Wi-Fi access.	Institute would invest approximately 4 Lakhs & 16 Lakhs in each of 24/7 Broad band connectivity and Wi-Fi access (In all academic, administrative buildings & hostels), respectively on priority basis.	Within 4-6 months of joining the project
•	To invest in smart class rooms	For the sake of student, institute would invest approximately 6 Lakhs & 2.5 Lakhs in each of Smart boards and LCD projectors with screen, respectively on priority basis.	Within 3-4 months of joining the project

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.

Plan		Action		Target Year
•	To improve	_	e the academic performance of such students,	
	academic	institute sh	all schedule:	
	performanc	i)	Remedial classes during semester hours or in	
	e of		vacations.	
	SC/ST/OB	ii)	Additional classes shall be taken during	
	C/Academi		institution hours when no classes are held but	
	cally weak		faculty available to help the students.	
	students.	iii)	Extra inputs shall be provided in more innovative	
			ways such as tutorial classes where students	
			would interact with each other and also with	
			meritorious students and faculty.	
		iv)	Bridge courses shall be offered which includes	
			extra classes, notes and advice where faculty	
			shall be available.	
		v)	Peer learning groups comprising of 10-12 good	
			and weak mixed students shall be made. Which	
			would help students share their experiences &	
			address their academic difficulties. Also good	
			students help the weak ones.	
		vi)	From time to time institute shall invites external	
			experts & consultants to improve the non-	
			cognitive and soft skills which include	
			personality, motivation, self control,	
			communication & presentations skills.	

- **6.** Instituting academic and non-academic reforms including programme flexibility (Is there any need to revise the curriculum? When it was last revised?)
 - ❖ For the time being, there is no need to revise the curriculum as it was recently revised in years 2015 & 2016.

- (b) Improving employability of the students
 - **7.** Increasing interaction with industry (What are the industries located in the vicinity? What role of industry is perceived for the institute?)

Plan	Action		Target Year
To increase	i)	Institute shall establish Industry-Institute-	2017
interaction		Interaction Cell (IIIC) to promote links to	
with		benefit students and faculty.	
Industry	ii)	Industry would be invited for:	
·	>	Student assessment, training of students & exposing students to new technologies.	
	>	Delivering expert lectures for certain instructional sessions.	
	>	Conducting short term training programmes in the institute.	
	>	Assistance in establishing new laboratories & providing literature on new technologies.	
	iii)	Laboratories in the institute (in selected area of excellence) would be shared with industries on agreed terms.	
	iv)	Faculty shall be deputed to industry for problem solving and for joint projects.	

8. Student carrier counselling and placement

Plan	Action		Target Year
• Student	i)	Institute shall establish The Career	
Career		Counselling Cell to assist the students in	
Counselling		relevant industries/company, in career	
&		planning, in preparation for selection tests and	
Placement		in placement.	
	ii)	From time to time, The Career Counselling	
		Cell would conduct Aptitude Test, Group	
		Discussion, Counselling & Skill Development	
		Programmes and Guest Lectures from	
		Corporate Personalities in order to meet the	
		demand & preference of the various industries.	
	iii)	In order to conduct Campus Placement Drive,	Within 3-4
		Institute would invest atleast 2 Lakhs in	months of
		establishing Conference/Interview Room	joining the
		which would ultimately benefit the students.	project.

- (c) Increasing faculty productivity and motivation
 - 9. Sponsored research, consultancy and other revenue generating activities

Plan		Action	Target Year
•	To offer	Under TEQIP-III project, institute shall offer 4-5 Lakhs for	2020
	seed grant	research to faculty members to venture into innovative	
	for research	research and to strengthen research culture in the institute.	
	to faculty		
	members		
•	To	Institute shall try to execute this plan under the guidance of	
	encourage	senior faculty in order to increase their interest in higher	
	UG students	education & research.	
	to join		
	industry		
	oriented &		
	sponsored		
	research		
	programmes		
•	To have	Regular interactions through consultancy are likely to	
	interactions	promote a healthy and useful relationship between	
	with	industries and the institute which would directly and	
	industries	indirectly benefit the faculty and the students.	
•	To generate	In order to enhance the revenue, institute would conduct	
	revenue	various activities such as self financing teaching, training	
	through	programmes, sharing of high-tech equipments with	
	various	industries & public usage of infrastructure for academic	
	activities	activities etc.	

2.3 Provide an action plan with timelines for

1. Obtaining autonomous institution status from UGC.

Plan	Action	Target Year
• To obtain	i) Proposal for starting New Branch (Electrical	
autonomous	Engineering) has been already submitted to DTE,	
institution	Sundernagar, H.P. vide letter no.	
status from	ABVGIET/Estt./DPR/Elect. Engg/2016-1854,	
UGC.	dated 18/11/2016. (Document attached)	
	ii) AICTE approval for starting Electrical Engg.	
	Branch has already been obtained vide approval	
	no. F.No.North-West/2013/1-1538283341, dated	
	30 April, 2013. (Document attached)	
	iii) Reconstitution of BOG is under process as per	
	UGC & AICTE norms.	
	iv) Proposal for NBA accreditation shall be submitted	
	after the declaration of result of 2013-17 batches	
	(after the eligibility).	

- 2. Improving the NBA accreditation status:
 - ❖ At present, institute is not eligible to apply for NBA accreditation. However same shall be applied after the declaration of result of 2013-17 batches.

2.4 Describe the following in brief:

- 1. Is any enhanced assistance/mentoring that the institution is looking forward from its ATU?
 - ❖ Yes, Affiliated Technical University (HPTU, Hamirpur HP) should provide better scheduled date sheet of regular classes examinations and reappear examinations. Above mentioned examinations must be in different times and should not be mixed in order to avoid large backlog of students in the final year. This would work as a stress buster for the students and shall directly assist them in improving their academic performances.
- **2.** Does your BOG need strengthening, if yes, then how?
 - ❖ Yes, institute has already submitted proposal to Department of Technical Education (DTE), Sundernagar H.P. Vide letter no. ABVGIET/Estt./B.Tech/BOG-62, dated 30/01/2017 for reconstitution of BOG as per UGC & AICTE norms.
- **3.** Is there an ERP/MIS system existing, if yes, then any improvement, modification suggested?
 - * NO
- **4.** Is there any mechanism i.e. special classes being conducted in the institution for improving the GATE score?
 - ❖ Yes, special classes are being conducted in the institution for improving the GATE score. These special classes include Engg. Mathematics, General Aptitude & Mock Tests relevant to these weekly etc and are taken regularly in the institute off hours & even in vacations. In addition to this, previous year's question papers of GATE are also discussed.
- **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).
 - Yes, we are interested in twinning partnership. This would certainly work wonder for our institute.

- **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?
 - ❖ Not at all. There is no such difficulty as far as recruitment and selection of high quality faculty is concerned. Because the recruitment and selection of faculty is through Himachal Pradesh Public Service Commission Shimla HP.
- **2.7** Give an action plan for ensuring that the project activities would be sustained after the end of the project.
 - ❖ All the TEQIP-III project activities such as faculty, technical & administrative staff training, student employability, faculty productivity & motivation, procurement of furniture, equipments, books and academic software's, infrastructure (Civil work) etc. shall be sustained even after the end of the project. Institute would establish four funds viz Corpus Fund, Faculty Development Fund, Equipment Replacement Fund & Maintenance Fund to ensure the development activities continue beyond the project period. Also 8% of revenue per year of institute would be deposited as sustainability fund. Apart from this, from time to time State Government also provides the financial assistance to the institute.
- **2.8** Describe briefly the participation of department/faculty/students in the IDP preparation.
 - ❖ The TEQIP-III Co-ordinator of the institute has taken the painstaking and rigorous efforts in the preparation and compiling of IDP. Also all the departments of the institute such as Department of ASH, Department of CSE & Department of ECE etc. have significantly and effectively participated in the preparation of IDP. Apart from this, Administrative & Technical Staff have also played a vital role in the preparation of IDP.