

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

**Final Round of Performance Audit held from 12<sup>th</sup> to 14<sup>h</sup> August 2016.**

**Performance Audit Report of  
BVB's Sardar Patel College of Engineering, Mumbai**

**NATIONAL PROJECT IMPLEMENTATION UNIT (NPIU)**

EdCIL House, 4th Floor, Plot 18-A,  
Sector 16-A NOIDA - 201 301, Gautam  
Budh Nagar, Uttar Pradesh

## PERFORMANCE AUDIT FORMS

### INSTITUTE ON PERFORMANCE PROFILE

#### FINAL round of performance audit

**NAME OF PERFORMANCE AUDITOR: Dr. N.C. Shivaprakash**

**DATES OF PERFORMANCE AUDIT: 12<sup>th</sup> to 14<sup>th</sup> August 2016.**

**NAME OF INSTITUTION WITH LOCATION: BVB's Sardar Patel College of Engineering,  
Mumbai 400 058**

PIP REF	INSTITUTION PERFORMANCE PROFILE	OVERALL EVALUATION GRADES
<b>Component 1: Improving the Quality of Education in selected Institutions</b>		
1.1	Strengthening institutions to improve learning outcomes and employability of Graduates	<b>1</b>
1.2	Scaling – up postgraduate education and demand driven research and development and innovation	<b>1</b>
1.2.1	Establishing centres of excellence	<b>NOT APPLICABLE</b>
1.3	Faculty development for effective teaching (pedagogical Training)	<b>1</b>
<b>Component 2: Improving System Management</b>		
2.1	Capacity building to strengthen management	<b>2</b>
2.1.1	Implementation of good governance	<b>1</b>
2.2	Project management, monitoring and evaluation	<b>2</b>

INSTITUTION PERFORMANCE PROFILE GRADES AND GRADE DESCRIPTORS	
1	<b>Significant evidence of good practice</b> in the quality and standards achieved (Assessment identifies clear supporting evidence for at least 75% of the relevant practices can be considered good practice)
2	<b>Some evidence of good practice</b> in the quality and standards achieved (Assessment identifies clear supporting evidence that at least 50% of the relevant practices. can be considered good practice )
3	<b>Good practice not widespread or not in place</b> (Institutions may specify the expected date of completion if there are concrete plans in place for implementation.)

**NOTE: SUPPORTING EVIDENCE - PERFORMANCE AUDITORS WILL PROVIDE A BULLET POINT LIST OF THE STRONGEST, clearest examples of evidence in support of evaluation grades on all ANNEX 4 FORMS.**

The grade descriptors have two elements: one relating to the **amount and nature of the evidence** for a given practice; and **one relating to the quality** of the practice about which the evidence is gathered. So, for example, a grade of 1 means both that the evidence is clear and that it amounts to 75% or more of the total evidence found; and, that the practice is good.

# PERFORMANCE AUDIT FORM (1.1)

Annex 4 (1.1)


## COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

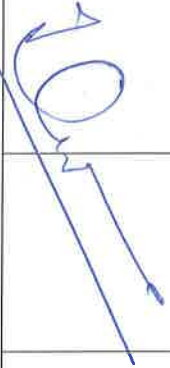
NAME OF PERFORMANCE AUDITOR: Dr. N.C. Shivaprakash

DATES OF PERFORMANCE AUDIT: 12<sup>th</sup> to 14<sup>th</sup> August 2016

NAME OF INSTITUTION WITH LOCATION: BVB's Sardar Patel College of Engineering, Mumbai 400 058

### 1.1: Strengthening institutions to improve learning outcomes and employability of Graduates

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETER AND PROJECT OUTPUT/OUTCOME PARAMETERS	Perceived Score	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
<p>A. Effectiveness of funds utilized for the teaching, training, learning and research equipment, library, computers, etc. by the institutions, including:</p> <ul style="list-style-type: none"> <li>Increase in the satisfaction index of student and faculty</li> </ul>		<ul style="list-style-type: none"> <li>Funds are utilized effectively for the teaching-learning, training, and research equipment, library, computers, etc. by the institution. Rs. 908.2 lacs were spent by the end of July 2016 out of Total Grant received Rs1000 lacs till date. Thus % of actual utilization of grants received is 90.82%. The committed expenditure is Rs.65.5 lacs. Thus the percentage of actual amount utilized +Committed expenditure is 97.4%</li> </ul>
<p>B. Obtaining Academic Autonomy status, including:</p> <ul style="list-style-type: none"> <li>Number of institutions that have obtained 'Autonomous Institution status' as per University Grants Commission process within 2 years of joining the Project, or</li> </ul>		<ul style="list-style-type: none"> <li>Institute has got autonomous status since 2010. Mumbai University has conferred autonomy from 2010-11 to 2014-15 and UGC has conferred autonomy from 2010-11 to 2015-16. In 2015, the institute has applied for extension of autonomy to the university of Mumbai. The University constituted Review committee for the same and accordingly the committee visited the submitted the report to the university with recommendation of extension of autonomy to the institute for further period of 5 years from 2015-16 to 2019-20. Based on the committee's recommendations the University granted of extension of autonomy to the institute for further period of 5 years from 2015-16 to 2019-20. Subsequently, the institute applied to the UGC for the extension of autonomy. On</li> </ul>

		<p>the basis of the report of the UGC expert Committee and on the basis of the recommendations of the standing committee, the UGC granted the extension of autonomy the institute for period of 6 years from 2016-17 to 2021-2022.</p>
<ul style="list-style-type: none"> <li>Effectiveness of utilization of academic autonomy possessed/ obtained (See Table - 26 in PIP)</li> </ul>		<ul style="list-style-type: none"> <li>Various committees are constituted as per the norms to improve the teaching learning process. Subject and Academic board meetings are held regularly to update/revise the curricula/syllabi. Academic calendar is strictly followed. Results are declared on time. Efforts are taken to improve results and campus placements. Participation of industry experts in subject board and academic board, input from industry experts are incorporated in the curriculum. The industry review meeting was held to take the input from industry in this regards. In Mechanical Department, two value added courses namely, Introduction to Composite Material Technology and Internet of Things have been introduced in Semester-IV. In electrical Department, one value aided course namely PLC has been introduced in semester IV. In Electrical Department one of the elective namely, Industry Automation is supported by Industry (L &amp;IT). Five elective courses in Electrical Engineering namely, Embedded systems and real-time programming, Restructuring and deregulation, Industrial Automation Smart Grid and Robotics have been added.</li> <li>In the current year a new elective subject namely VLSI in semester VI has been introduced.</li> <li>Addition of new electives in Mechanical Engineering namely Automobile Engineering is done.</li> <li>In Civil Engineering Department, new elective namely Risk and Value Management has been introduced in semester VII.</li> <li>In PG program with Structural Engineering, a</li> </ul>

new elective namely, Analysis of offshore Structures is introduced in semester -I.

- In Construction Management, new elective namely, Health Safety and Environment has been introduced.

**New Course Added:**

- In Civil Engineering Department new course on Development has been introduced in semester V.
- In Mechanical Engineering, a new course on Health Safety and Environment has been introduced in semester VI.

**Credit Transfer Scheme:**

- SPCE Mumbai has undergone an academic agreement with SGGs, Nanded and WCE, Sangli. This agreement gives students admitted to the undergraduate engineering programs at SPCE Mumbai an opportunity to study in the second Year, Third Year and Final year of graduation at SPCE Mumbai. Student can avail CTS scheme for PG courses as well. Further in this agreement the students who are presently in second year, third year and fourth year and PG need to satisfy the academic requirements as per MOU signed. CTS has been implemented from present academic year with one student from SGGs, Nanded has joined our institute in Electrical Engineering Department in Semester V.

- Efforts are also taken to enhance R&D activities, consultancy jobs, and industry-institute interaction. Student's feedback is collected for all subjects at the end of each semester. Mechanical Department has initiated the on-line student's feedback and analysis. This will be implemented in other departments also. Two New PG programs namely Construction Management (Civil Engineering) and Machine Design (Mechanical Engineering) have been started since 2011-12. New PG program Power Electronics and Power System is started in Electrical

		<p>Engineering Department in 2014-2015. Efforts were made to start two new PG programs, namely, M. Tech. in Electronics/Control and M.Tech in Computer Integrated Manufacturing and follow up is to start these programs in progress. Training programs in collaboration with industries and skill enhancement programs as per market need are conducted. Faculty members are regularly deputed for academic advancement.</p>
<p><b>C. Effort made by Institutions for upgrading qualifications of faculty members, including:</b></p> <ul style="list-style-type: none"> <li>Percentage of faculty enrolled in M Tech and PhD</li> </ul>		<ul style="list-style-type: none"> <li>Faculty members are deputed for upgrading their qualification regularly.</li> <li>In 2013-14 01 faculty has been deputed for PhD. program at IITB</li> <li>In 2014-15 two faculty members have been deputed for Ph.D. under self Finance Category (one faculty in IITB and other at VJTI, Mumbai).</li> <li>In 2015-16, 03 faculty members have been deputed for M.Tech. Program.</li> </ul>
<p><b>D. Existing teaching and staff vacancies and effort made by Institutions for filling the vacancies, including:</b></p> <ul style="list-style-type: none"> <li>Percentage of faculty and staff positions filled and vacant</li> </ul>		<ul style="list-style-type: none"> <li>Vacant posts are regularly filled up. For filling the vacant posts the interviews were held in Nov 2014. Out of 21 vacant posts 15 candidates have been selected and have joined the institute. Of 15 selected candidate two internal faulty have been promoted to higher posts. The process of filling up of remaining vacant posts is in progress. Out of 46 faculties, 19 have PhD qualification, 24 have M.Tech/M.E/M.Sc. qualification.</li> <li>In 2014-15 Faculty position – 37 out of 59 i.e., 62.7%.</li> <li>In 2015-16 Faculty position – 46 out of 59 i.e. 78%.</li> <li>Supporting staff in 2013-14 100 out of 120 i.e. 83.33%</li> <li>In 2015-16 position of supporting staff: Out of 114 sanctioned posts, 85 posts are filled. %of supporting staff filled is 73.9%</li> <li>In June 2015, 7 supporting staffs were selected and approval of this appointment is sent to DTE.</li> <li>In 2014-15 Faculty position 37 out of 59</li> </ul>
<ul style="list-style-type: none"> <li>Increase in faculty appointed on regular basis</li> </ul>		

		<ul style="list-style-type: none"> <li>In 2015-16 Faculty position 46 out of 59</li> <li>Increased by 24.4%</li> <li>In 2015-16 Transition rate: 91.4%</li> </ul>
<b>E. Effectiveness of equity at Institutional level, including:</b>		
<ul style="list-style-type: none"> <li>Transition rate of students from the First to the Second year in Undergraduate programmes</li> </ul>		
<b>OVERALL EVALUATION GRADE FOR 1.1</b>		1

### PERFORMANCE AUDIT FORM (1.2)

#### COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

**NAME OF PERFORMANCE AUDITOR:** Dr. N.C. Shivaprakash

**DATES OF PERFORMANCE AUDIT:** 12<sup>th</sup> to 14<sup>th</sup> August 2016.

**NAME OF INSTITUTION WITH LOCATION:** BVB's Sardar Patel College of Engineering, Mumbai-400 058

#### 1.2: SCALING-UP POSTGRADUATE EDUCATION AND DEMAND DRIVEN RESEARCH & DEVELOPMENT AND INNOVATION

<b>MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERITTING AND PROJECT OUTPUT/OUTCOME PARAMETERS</b>	<b>Perceived score</b>	<b>SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)</b>
<b>A. Effectiveness of funds utilized for the teaching, training, learning and research equipment, library, computers, etc. by the institutions, including:</b> <ul style="list-style-type: none"> <li>Increase in the satisfaction index of student and faculty</li> </ul>		<ul style="list-style-type: none"> <li>Funds are utilized effectively for the teaching-learning, training, and research equipment, library, computers, etc. by the institution. Rs. 908.2 lacs were spent by the end of July 2016 out of Total Grant received Rs1000 lacs till date. Thus % of actual utilization of grants received is 90.82%</li> <li>The committed expenditure is Rs.65.5 lacs. Thus the % of actual amount utilized +Committed expenditure is 97.4%</li> <li>M.Tech. – increase in enrollment from 2014-15 to 2015-16 is <b>increased by 8.7%</b>. Total no. of Ph.D. students Enrolled (all years) in 2014-15 is 49 while in 2015-16 is 46</li> <li>2011-12 Two Laboratories Machine Design Research Lab for Mechanical Dept. and</li> </ul>
<b>B. Effectiveness of scaling - up Postgraduate Technical Education, including:</b> <ul style="list-style-type: none"> <li>Increased enrolment for MTech and PhD</li> </ul>		

<ul style="list-style-type: none"> <li>Establishment of proposed laboratories</li> </ul>		<ul style="list-style-type: none"> <li>Computer Centre in Civil Engineering Department</li> <li>2013-14 Two Laboratories CAD-CAM Lab &amp; CFD Lab.</li> <li>2014-15 Power Electronics lab in Electrical Engineering Department.</li> <li>Total GATE Scholarship for 2014-15 is 150</li> <li>PG Assistantship under TEQIP for 2014-15 is 17</li> <li>Cumulative number of PG students assistantship granted : 92</li> </ul>
<p><b>C. Progress/achievement in starting new Postgraduate programmes, including:</b></p> <ul style="list-style-type: none"> <li>Securing AICTE approval</li> <li>Establishment of laboratories</li> <li>Adequacy of student enrolments</li> </ul>		<ul style="list-style-type: none"> <li>New PG Program Started in 2011-12</li> <li>Civil: Construction Management</li> <li>Mechanical: Machine Design.</li> <li>New PG Program Started in 2014-15</li> <li>Electrical: Power Electronics Power Systems</li> <li>2011-12 Two Laboratories Machine Design Research Lab for Mechanical Dept. and Computer Centre in Civil Engineering Department</li> <li>2013-14 Two Laboratories CAD-CAM Lab &amp; CFD Lab.</li> <li>2014-15 Power Electronics lab in Electrical Engineering Department.</li> <li>Almost all seats are filled up.</li> <li>In 2015-16 Five PG seats were left vacant out of 180 seats.</li> </ul>
<p><b>D. Effectiveness of collaborations made with other Institutions in India and abroad, including</b></p> <ul style="list-style-type: none"> <li>Increase in number of co-authored publications in refereed journals</li> </ul>		<ul style="list-style-type: none"> <li>Publications in referred journals for the year 2015-16 are 31 of which 11 are co-authored by person from industry/other organization.</li> </ul>
<p><b>E. Increased collaboration with industry in research and development, including:</b></p> <ul style="list-style-type: none"> <li>Increase in number of joint and industry sponsored research and development work undertaken</li> </ul>		<ul style="list-style-type: none"> <li>Project works done in collaboration with Industry</li> <li>2014-15      2015-16</li> <li>Mechanical Department(PG): 22      16</li> <li>Civil Department(PG): 10      06</li> </ul>

		<ul style="list-style-type: none"> <li>• Structural Department(PG): 05 05</li> <li>• Electrical Department (PG): -- 10</li> </ul>															
<ul style="list-style-type: none"> <li>• Increase in financial contribution by industry for R &amp; D</li> </ul>		<ul style="list-style-type: none"> <li>• Indirect financial contribution in terms of projects.</li> </ul>															
<ul style="list-style-type: none"> <li>• Increase in industry personnel registered for Masters and Doctoral programmes</li> </ul>		<ul style="list-style-type: none"> <li>• Industry personnel registered for PG. program in 2014-15: 04</li> <li>• Industry personnel registered for PG. program in 2015-16: 01</li> <li>• Industry personnel registered for Ph.D program in 2014-15: 49 (All years)</li> <li>• Industry personnel registered for PG. program in 2015-16: 46 (All Years)</li> </ul>															
<ul style="list-style-type: none"> <li>• Increase in industry personnel trained by the institution in knowledge and/or skill areas</li> </ul>		<ul style="list-style-type: none"> <li>• Industry personnel trained by the faculty of Mechanical Engineering Department:</li> <li>• In 2015-16: 25</li> </ul>															
<ul style="list-style-type: none"> <li>• Increase in the number of consultancy assignments secured</li> </ul>		<ul style="list-style-type: none"> <li>• Consultancy Assignments Under taken in 2014-15: 40</li> <li>• Consultancy Assignments Under taken in 2015-16: 35</li> </ul>															
<ul style="list-style-type: none"> <li>• Increase in the number of students' and faculty visits to and/or training in industry</li> </ul>		<ul style="list-style-type: none"> <li>• Industrial visits by Students</li> </ul> <table border="1"> <thead> <tr> <th></th><th>2014-15</th><th>2015-16</th></tr> </thead> <tbody> <tr> <td>Electrical-</td><td>02</td><td>02</td></tr> <tr> <td>Mechanical-</td><td>11</td><td>08</td></tr> <tr> <td>Civil-</td><td>07</td><td>04</td></tr> <tr> <td>Structural -</td><td>01</td><td>01</td></tr> </tbody> </table>		2014-15	2015-16	Electrical-	02	02	Mechanical-	11	08	Civil-	07	04	Structural -	01	01
	2014-15	2015-16															
Electrical-	02	02															
Mechanical-	11	08															
Civil-	07	04															
Structural -	01	01															
<ul style="list-style-type: none"> <li>• Improvements in graduate placement rate</li> </ul>		<ul style="list-style-type: none"> <li>• Percentage of PG students placed through campus in 2014-15: 23.6%</li> <li>• Percentage PG students placed through campus in 2015-16: 44.82% 89% increase.</li> </ul>															
<ul style="list-style-type: none"> <li>• Increase in involvement of industry experts in curricula &amp; syllabi improvements, laboratory improvements, evaluation of students and delivering expert lectures</li> </ul>		<ul style="list-style-type: none"> <li>• Industry experts are involved in subject boards, academic boards in curricula &amp; syllabi improvements. Curricula and syllabi in reviewed and updated and Industry need based topics are introduced in the curricula and syllabi.</li> <li>• Student's evaluation is done by the industry expert during their placements.</li> </ul>															

		<ul style="list-style-type: none"> <li>Subject Board &amp; Academic Board meetings are regularly held.</li> <li>Expert Lectures from industry are regularly organized in all the departments.</li> </ul> <p>2014-15      2015-16</p> <p>Electrical:                      10                      13</p> <p>Mechanical:                      13                      15</p> <p>Civil:                                      09                      10</p> <p>Structural:                                      01                      07</p>
<ul style="list-style-type: none"> <li>Increase in the number of sandwich programmes between industries and the institution.</li> </ul>		Nil
<b>F. Increase in percentage of revenue from externally funded research and development projects and consultancies as a percentage of the total revenue of the institution from all sources</b>		<ul style="list-style-type: none"> <li>2014-15      14.24 %</li> <li>2015-16      7.67%</li> <li>No adequate R&amp;D projects funded externally. In the past institute has received funds more than Rs 1 Cr. from FIST, AICTE, UGC and Mumbai University. Currently the institute in focusing on utilization of seed money for research work funded by TEQIP grant      Mechanical and Electrical departments are working on projects funded by ICT, Matunga.</li> <li>2014-2015 No. of Publications:32</li> <li>2015-2016 No. of publications:31</li> </ul>
<b>G. Increase in the number of publications in refereed journals</b>		
<b>H. Increase in the number of patents filed</b>		<ul style="list-style-type: none"> <li>2014-15 : 01</li> <li>2015-16 : 00</li> </ul>
<b>OVERALL EVALUATION GRADE FOR 1.2</b>		1

### PERFORMANCE AUDIT FORM (1.2.1)

#### COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

NAME OF PERFORMANCE AUDITOR: Dr. N.C. Shivaprakash

DATES OF PERFORMANCE AUDIT: 12<sup>th</sup> to 14<sup>th</sup> August 2016.

NAME OF INSTITUTION WITH LOCATION: BVB's Sardar Patel College of Engineering, Mumbai-400 058

## 1.2.1: ESTABLISHING CENTRES OF EXCELLENCE

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS		SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
<b>A. Establishing Centres of Excellence</b>		<b>NOT APPLICABLE</b>
Improvement in Research and Development facilities through:		
<ul style="list-style-type: none"> <li>Establishment of new laboratories for applicable thematic research</li> </ul>		
<ul style="list-style-type: none"> <li>Establishment of a knowledge resource centre (library) in the thematic area</li> </ul>		<b>NOT APPLICABLE</b>
<ul style="list-style-type: none"> <li>Procurement of furniture</li> </ul>		<b>NOT APPLICABLE</b>
<ul style="list-style-type: none"> <li>Civil works</li> </ul>		<b>NOT APPLICABLE</b>
OVERALL EVALUATION GRADE FOR 1.2.1		
USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)		
		<b>NA</b>

## PERFORMANCE AUDIT FORM (1.3)

## COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

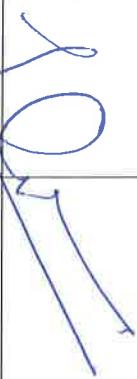
NAME OF PERFORMANCE AUDITOR: Dr. N.C. Shivaprakash

DATES OF PERFORMANCE AUDIT: 12<sup>th</sup> to 14<sup>th</sup> August 2016.

NAME OF INSTITUTION WITH LOCATION: BVB's Sardar Patel College of Engineering, Mumbai-400 058

## 1.3 Faculty development for effective teaching (pedagogical Training)

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS	Perceived score	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
<b>A. Effort made by Institutions providing Pedagogy Training to faculty, including:</b>		
<ul style="list-style-type: none"> <li>Percentage of faculty who have benefitted from the core and advanced modules of pedagogy training</li> </ul>		<ul style="list-style-type: none"> <li>23.9% in 2015-16</li> </ul>
<ul style="list-style-type: none"> <li>Improvements in (and/or updating, and more relevant) curricula and/or syllabi</li> </ul>		<ul style="list-style-type: none"> <li>Yes, Academic Board &amp; Subject Board Meetings are regularly held in order to</li> </ul>

			improve curricula and syllabi by updating and adding relevant topics/courses.
<ul style="list-style-type: none"><li>Improvements in (and/or updating, more relevant) course assessment methods</li></ul>		<ul style="list-style-type: none"><li>Continuous assessment by conducting tests 1 &amp; 2, end semester re-exams. Quizzes/mini projects are conducted, answer books are shown to students. Synoptic answers are also provided by faculty members. Question papers and answer books are audited by experts from reputed institutes.</li></ul>	
<ul style="list-style-type: none"><li>Improvements in teaching and learning methods, including provision for students needing extra/remedial support</li></ul>		<ul style="list-style-type: none"><li>Remedial Coaching</li><li>Guest Lectures</li><li>Coaching beyond syllabus</li><li>Extra Lectures</li><li>Presentation by Video</li><li>Working Models</li><li>Charts etc.,</li></ul>	
<ul style="list-style-type: none"><li>Percentage of faculty with UG qualification registered/deputed for improving their qualification (see Section - 3, 4(b) on page 20 of PIP)</li></ul>		<ul style="list-style-type: none"><li>6.52%</li></ul>	
<ul style="list-style-type: none"><li>Percentage of faculty deputed for subject domain training, seminars, etc. (faculty are required to share their gains with peers and put reports on training on institution's web site)</li></ul>		<ul style="list-style-type: none"><li>In 2015-16 All regular faculty and some ad hoc faculty attended the subject domain training, seminars etc. Five faculties have been deputed to attend conference in abroad and BOG has approved international travel for three faculties to attend the conferences.</li></ul>	
<ul style="list-style-type: none"><li>Progress in securing accreditation of eligible UG &amp; PG programs (institutions to achieve target of 60% of eligible UG &amp; PG programmes accredited - applied for within 2 years of joining the Project)</li></ul>		<ul style="list-style-type: none"><li>Applied for 3<sup>rd</sup> round of accreditation for Civil, Mechanical and Electrical Engineering UG programs. SARs have been uploaded in NBA web portal. The tentative dates for NBA committee visits are also submitted. Autonomous institute have to apply for TEIR-I category. Therefore format has changed and proposals are submitted as per new norms. SAR is opened in Feb 2015. SAR is uploaded in NBA web portal and the tentative dates for NBA committee visits are also submitted.</li><li>Recently, NBA has revised the duration for award of accreditation, i.e., provisional Accreditation of 2 years has been revised to 3 years and the full accreditation of 5 years to 6 years. The revised duration will be applicable</li></ul>	

		<p>only to the UG Engineering programs being considered for accreditation under outcome based format (Tier I/Tier II). To implement the same, the Institutions which have applied for UG Engineering programs and have submitted or are filling the SAR in old format are required to submit the pre-qualifiers before the expert team visit is conducted. Now they are in the process of preparing pre-qualifiers and it will be submitted by 2<sup>nd</sup> week of August 2106.</p> <ul style="list-style-type: none"> <li>The institute has also applied for first round of accreditation of all four PG eligible PG programs. SAR have been uploaded in NBA web portal. The tentative dates for NBA committee visits are also submitted.</li> </ul>
<b>B. Effectiveness of Pedagogy Training, including</b>		
<ul style="list-style-type: none"> <li>Percentage of students satisfied with the quality of teachers and changes/developments specifically undertaken as a result of student evaluations</li> </ul>		<ul style="list-style-type: none"> <li>Around 75%</li> </ul>
<b>OVERALL EVALUATION GRADE FOR 1.3</b>		1

**PERFORMANCE AUDIT FORM (2.1)**  
**COMPONENT 2: IMPROVING SYSTEM MANAGEMENT**

**NAME OF PERFORMANCE AUDITOR: Dr. N.C. Shivaprakash**

**DATES OF PERFORMANCE AUDIT: 12<sup>th</sup> to 14<sup>th</sup> August 2016.**

**NAME OF INSTITUTION WITH LOCATION: BVB's Sardar Patel College of Engineering, Mumbai- 400 058**

**2.1: CAPACITYBUILDING TO STRENGTHEN MANAGEMENT**

<b>MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS</b>	<b>Perceived score</b>	<b>SUPPORTING EVIDENCE</b>
<p><b>A. Implementation of academic and non-academic reforms, including:</b></p> <ul style="list-style-type: none"> <li>Improved understanding of the need</li> </ul>		<p>(Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)</p> <ul style="list-style-type: none"> <li>Inclusion of various stake holders in development processes. Improvement in Scheme, assessment process, methods of Teaching-Learning. Improvement in</li> </ul>

and ways for increased autonomy, and new instruments for accountability		administration, financial management. Industry involvement in Teaching Learning Process, Projects etc. Improvement in R & D, Publications and Project based learning.
<ul style="list-style-type: none"> <li>Modernization and decentralization of administration and financial management</li> </ul>		<ul style="list-style-type: none"> <li>Decentralization of administration by creating Dean positions.</li> </ul>
<ul style="list-style-type: none"> <li>Extent of delegation of administrative and financial decision making powers to senior functionaries</li> </ul>		<ul style="list-style-type: none"> <li>Yes. Budget provision for each department. Administrative and financial decision making power at departmental level is given to the Heads of Department Purchase and Finance committees are in place.</li> </ul>
<ul style="list-style-type: none"> <li>Responsiveness to stakeholders (students, faculty, staff, industry, local communities)</li> </ul>		<ul style="list-style-type: none"> <li>Feedback from stakeholders (Students, Alumni, Parents, Employers) are taken. Stakeholders are involved in curriculum development. Senior Faculty and industry experts are the member of Board of Governor. Faculty, Staff, Students and industry expert are members of various committees. Local Authorities (Municipal Corporation Authorities &amp; Police authorities and NGO members) are part of Anti-ragging committee. NGO member are part of Women Development Cell.</li> </ul>
<ul style="list-style-type: none"> <li>Institutional quality assurance and enhancement strategies, including student feedback mechanisms</li> </ul>		<ul style="list-style-type: none"> <li>Student feedback mechanism is in place. Students' feedback for all subjects is taken for every semester. Mechanical Department has initiated the on-line students' feedback and analysis. This will be implemented in other departments also Quality assurance cell at institute level is formed. IT is planned to audit every section of the institute.</li> </ul>
<ul style="list-style-type: none"> <li>Maintenance of academic and non-academic infrastructure and facilities, including sufficiency and quality of academic buildings</li> </ul>		<ul style="list-style-type: none"> <li>Building and works committee is in place and is looking after maintenance of infrastructure and facilities. Infrastructure is sufficient for the existing programs and quality is satisfactory. Recently renovation work of class rooms/laboratories is under taken. CCTV cameras are installed at various locations in the institute. Wi-Fi facility is also provided in the college. It is proposed to construct new hostel.</li> </ul>
<ul style="list-style-type: none"> <li>Development, maintain and utilization of institutional resources</li> </ul>		<ul style="list-style-type: none"> <li>No Developmental activity in case of physical Infrastructure. It is difficult due to space and fund constraint. Maintenance, modernization and utilization of resources are in place.</li> </ul>
<ul style="list-style-type: none"> <li>Generation, retention and utilization of Income Revenue Generation.</li> </ul>		<ul style="list-style-type: none"> <li>Generation of revenue: through testing, consultancy, workshops/courses and R &amp; D projects. Retention: 50% of revenue generated is retained with institute. It was proposed to increase faculty share in</li> </ul>

		the last BOG meeting. Decision in this regard will be taken in next meeting. Utilization: for procuring new equipment, maintenance of laboratories, to meet inadmissible expenses and part of it is deposited in TEQIP four funds
<b>OVERALL EVALUATION GRADE FOR 2.1</b>		
2		

**PERFORMANCE AUDIT FORM (2.1.1)**  
**COMPONENT 2: IMPROVING SYSTEM MANAGEMENT**

**NAME OF PERFORMANCE AUDITOR:** Dr. N.C. Shivaprakash


**DATES OF PERFORMANCE AUDIT:** 12<sup>th</sup> to 14<sup>th</sup> August 2016.


**NAME OF INSTITUTION WITH LOCATION:** BVB's Sardar Patel College of Engineering, Mumbai-400 058

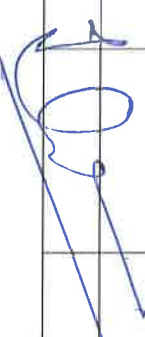
**2.1.1: IMPLEMENTATION OF GOOD GOVERNANCE**

<b>MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS</b>	<b>Perceived score</b>	<b>SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)</b>
<b>A.PRIMARY ACCOUNTABILITIES</b>		
<ul style="list-style-type: none"> <li>Has the Governing Body approved the institutional strategic vision, mission and plan – identifying a clear development path for the institution through its long-term business plans and annual budgets?</li> </ul>		<p>Yes Revised Vision &amp; Mission strategic plan</p> <ul style="list-style-type: none"> <li>Revised Vision, Mission and strategic plan are evolved by institute faculty through extensive deliberations. Vision &amp; Mission have been displayed on college website.</li> <li>These are discussed in the Board of Governor as part of information agenda presented by the Principal and approved by BOG during the meeting held on 22<sup>nd</sup> May 2015. Annual budgets</li> <li>Annual budgets are regularly presented to the BOG and are deliberated and approved.</li> <li>BOG Meeting held on 22-10-2013</li> <li>Agenda 8. Budget and financial status on the institute.</li> <li>BOG Meeting held on 21-06-2014</li> <li>Agenda 7. Budget, financial status on the institute and fund received from AICTE.</li> <li>BOG Meeting held on 24-12-2014</li> <li>Agenda 9. Financial status on the institute.</li> <li>BOG Meeting held on 22-05-2015</li> <li>Agenda 9. Financial status on the institute.</li> </ul>

		<ul style="list-style-type: none"> <li>• BOG Meeting held on 21-09-2015</li> <li>• Agenda 3: To discuss Financial Position and Fund allocation for various departments and sections.</li> <li>• BOG Meeting held on 11-06-2016</li> <li>• Agenda 12 : To discuss Financial data for the year 2016-17</li> </ul> <p>Other strategic Initiatives approvals</p> <ul style="list-style-type: none"> <li>• BOG Meeting held on 22-10-2013</li> <li>• Agenda 3: Progress of various activities under TEQIP Road Map for R&amp;D activities of the institute- Seed Money for research activities, appointment of senior research advisors, starting new PG programs</li> <li>• Students training Centre. Etc.</li> <li>• BOG Meeting held on 11-06-2016</li> <li>• Agenda 5 (iii) Proposal of appointment of ad-hoc faculty for PG programs through TEQIP Funds.</li> <li>• Agenda 5(ii) Proposal to pay enhanced PG Assistantship to Non-GATGE PG students through TEQIP funds.</li> </ul>
<ul style="list-style-type: none"> <li>• Has the Governing Body ensured the establishment and monitoring of proper, effective and efficient systems of control and accountability to ensure financial sustainability including financial and operational controls, risk management, clear procedures for managing physical and human resources.)?</li> </ul>		<ul style="list-style-type: none"> <li>• The auditors ensure that funds provided by funding bodies are used in accordance with the terms and conditions specified in any funding agreements /contracts /memorandum. Audited statements of accounts are being discussed and approved annually. Utilization certificates are sent to corresponding funding bodies</li> <li>• Budgets are approved by the finance committee and presented before BOG annually for detailed discussion and approval.</li> <li>• Finance Committee meetings are held regularly to review and approve the expenditures. Proceedings of Finance committee are presented to the BOG for approval.</li> <li>• Various committees required for autonomous institute are in place and revised as per the norms.</li> <li>• BOG Meeting held on 22-10-2013</li> <li>• Agenda 8. Budget and financial status on the institute.</li> <li>• BOG Meeting held on 21-06-2014</li> <li>• Agenda 7. Budget, financial status on the institute and fund received from AICTE.</li> <li>• BOG Meeting held on 24-12-2014</li> </ul>

		<ul style="list-style-type: none"> <li>• Agenda 9. Financial status on the institute.</li> <li>• BOG Meeting held on 22-05-2015</li> <li>• Agenda 9. Financial status on the institute.</li> <li>• BOG Meeting held on 21-09-2015</li> <li>• Agenda 3: To discuss Financial Position and Fund allocation for various departments and sections.</li> <li>• BOG Meeting held on 11-06-2016</li> <li>• Agenda 12 : To discuss Financial data for the year 2016-17</li> <li>• Finance Committee Meeting held on 26-11-2013</li> <li>• Policies on a range of systems, including treasury management, investment management, risk management, debt management, and grants and contracts do not exist.</li> <li>• Human resource requirements are met with the permission of chair and approved by BOG in the subsequent meetings.</li> <li>• Constant efforts are made to fill up the vacant teaching and non-teaching posts.</li> <li>• In November 2015, faculty interviews were held and 12 new faculties have joined the institute.</li> <li>• BOG Meeting held on 22-10-2013</li> <li>• Agenda3. Progress of various activities under TEQIP-Academic Reforms</li> <li>• BOG Meeting held on 22-05-2015</li> <li>• Agenda 3: Status of faculty and staff recruitment.</li> </ul>
<ul style="list-style-type: none"> <li>• Is the Governing Body monitoring institutional performance and quality assurance arrangements?</li> </ul>		<ul style="list-style-type: none"> <li>• Institution has a benchmarking process on the basis of rankings of the incoming students. i.e. meritorious students preferring engineering colleges in the region. At the end of admission year, this data is shared with the BOG for deliberations.</li> <li>• The BOG monitors institutional performance regularly with respect to finance, results, placements, appointments, compliance etc. These are recorded and approved at the BOG meetings. Student input quality (cut-off ranks), output quality (placement measures), research quality are monitored and action plans for improvement are discussed and approved at Academic board and other relevant levels.</li> </ul>
<ul style="list-style-type: none"> <li>• Has the Governing Body put in place</li> </ul>		<ul style="list-style-type: none"> <li>• Performance of head of institute is evaluated by</li> </ul>

suitable arrangements for monitoring the head of the institution's performance?		<ul style="list-style-type: none"> <li>Chairman, BOG during writing his CR.</li> <li>The role and responsibility of the head of the institution is guided by the UGC/AICTE/Mumbai University/DTE guidelines</li> </ul>
<ul style="list-style-type: none"> <li><b>EVALUATION GRADE FOR 2.1.1 A</b></li> </ul>		1
<b>B.OPENNESS &amp; TRANSPARANCY IN THE OPERATION OF GOVERNING BODIES</b>		
<ul style="list-style-type: none"> <li>Does the Governing Body publish an annual report on institutional performance?</li> </ul>		<ul style="list-style-type: none"> <li>Annual report is presented and discussed in the BOG; Institute in planning to publish the annual report in print form and upload the same on the institute's website. Annual Report from each Department is published in print form and is uploaded on the institute's website.</li> </ul>
<ul style="list-style-type: none"> <li>Does the Governing Body maintain, and publicly disclose, a register of interests of members of its governing body?</li> </ul>		<ul style="list-style-type: none"> <li>Yes, register of interest is maintained.</li> </ul>
<ul style="list-style-type: none"> <li>Is the Governing Body conducted in an open a manner, and does it provide as much information as possible to students, faculty, the general public and potential employers on all aspects of institutional activity related to academic performance, finance and management?</li> </ul>		<ul style="list-style-type: none"> <li>Governing body is conducted in an open manner and the proceedings of the minutes are published on institute's web site.</li> <li>The relevant information discussed in BOG is also shared with departments and faculty through faculty meetings.</li> </ul>
<b>EVALUATION GRADE FOR 2.1.1 B</b>		1
<b>C.KEY ATTRIBUTES OF GOVERNING BODIES</b>		
<ul style="list-style-type: none"> <li>Are the size, skills, competences and experiences of the Governing Body, such that it is able to carry out its primary accountabilities effectively and efficiently, and ensure the confidence of its stakeholders and constituents</li> </ul>		<ul style="list-style-type: none"> <li>BOG has been constituted as per the guidelines of statutory and regulating bodies (TEQIP/UGC guidelines for autonomous institutes)</li> </ul>
<ul style="list-style-type: none"> <li>Are the recruitment processes and procedures for governing body members rigorous and transparent?</li> </ul>		<ul style="list-style-type: none"> <li>BOG has been constituted as per the guidelines of statutory and regulating bodies (TEQIP/UGC guidelines for autonomous institutes), based upon the merit and competencies in a transparent manner. However, few of the nominations are decided by the BOG based upon the merit and competencies in a transparent manner</li> </ul>
<ul style="list-style-type: none"> <li>Does the Governing Body have actively</li> </ul>		<ul style="list-style-type: none"> <li>The independent members are external to, and</li> </ul>

involved independent members and is the institution free from direct political interference to ensure academic freedom and focus on long term educational objectives?		independent of, the institution, independent members are proactive. Members are actively involved in furtherance of institutional objectives. The institution is free from any political interference as far as day to day operations are concerned. However, as the institute is government aided, certain government policies may affect attainment of long term educational objectives.
<ul style="list-style-type: none"> <li>Are the role and responsibilities of the Chair of the institution and the Member Secretary serving the Governing Body clearly stated?</li> </ul>		<ul style="list-style-type: none"> <li>Yes, Roles and responsibilities of Chair of Governing Body, Head of the institution and member secretary are as per the TEQIP -II Project Implementation Plan, 2011 and University of Mumbai Statutes 593-642.</li> </ul>
<ul style="list-style-type: none"> <li>Does the Governing Body meet regularly? Is there clear evidence that members of the governing body attend regularly and participate actively?</li> </ul>		<ul style="list-style-type: none"> <li>Yes, earlier BoG meetings were conducted twice in a year and now its frequency in is increased to four meetings in a year.</li> <li>Recent meetings are held on 22-05-2015, 21-09-2015, 11-12-2015, 11-06-2016 and 21-07-2016. Details of BoG meetings are available on institute's website.</li> <li>Members of the BoG attend the meetings regularly which is evident from their attendance record.</li> </ul>
<b>EVALUATION GRADE FOR 2.1.1 C</b>		1
<b>D.EFFECTIVENESS AND PERFORMANCE REVIEW OF GOVERNING BODIES</b>		
<ul style="list-style-type: none"> <li>Does the Governing Body keep their effectiveness under regular review and in reviewing its performance, reflect on the performance of the institution as a whole in meeting its long-term strategic objectives and its short-term indicators of performance/success?</li> </ul>		<ul style="list-style-type: none"> <li>The review is being carried out by the BOG itself in an informal way. Persons will continue on board as long as there is NO CONFLICT OF INTEREST. The effectiveness against accountabilities are not measured as the accountabilities have not been documented.</li> </ul>
<ul style="list-style-type: none"> <li>Does the Governing Body ensure that new members are properly inducted, and existing members receive opportunities for further development as deemed necessary?</li> </ul>		<ul style="list-style-type: none"> <li>The experts who have been invited to the BOG bring with them the knowledge of their field and have a perception, which will enhance the performance of the institution in the direction of its vision. At present new members are briefed informally by the Chairman on their role and responsibility.</li> <li>Induction of some BOG members is done by State Government, Local University and UGC as per the TEQIP- II Norms (PIP-2011)</li> </ul>
<b>EVALUATION GRADE FOR 2.1.1 D</b>		1

<b>E.REGULATORY COMPLIANCE</b>		
<ul style="list-style-type: none"> <li>Does the Governing ensure regulatory compliance* and, subject to this, take all final decisions on fundamental matters of the institution.</li> </ul>		<ul style="list-style-type: none"> <li>The BOG makes it a point to treat these (AICTE, UGC, Local University) regulations as a minimum basic requirement and gives directions to higher provisioning of infrastructure, faculty (Human resources) and equipment</li> </ul>
<ul style="list-style-type: none"> <li>Does the regulatory compliance include demonstrating compliance with the 'not-for-profit' purpose of education institutions?</li> </ul>		<ul style="list-style-type: none"> <li>Fee structure and admissions are as per the rules of Government of Maharashtra state. Further the budget demonstrates compliance with 'not-for-profit' purpose of education institutions.</li> </ul>
<ul style="list-style-type: none"> <li>Has there been accreditation and/or external quality assurance by a national or professional body? If so, give name, current status of accreditation etc</li> </ul>		<ul style="list-style-type: none"> <li>Every year mandatory disclosure is sent to AICTE and published on website.</li> <li>Fee structure is decided by DTE, state Government.</li> <li>Admissions are centralized and done by State Government.</li> <li>Institution has been accredited by NBA in 2004 and 2008 and applied for next round of accreditation both for UG and PG programs.</li> <li>Performance audit and data audit for the 2010-11, 2011-12, 2013-14 has been completed.</li> <li>Institute proposes to create internal audit for various processes.</li> </ul>
<b>EVALUATION GRADE FOR 2.1.1 E</b>		1
<b>OVERALL EVALUATION GRADE FOR 2.1.1 A-E</b>		1

### PERFORMANCE AUDIT FORM (2.2)

#### COMPONENT 2: IMPROVING SYSTEM MANAGEMENT

**NAME OF PERFORMANCE AUDITOR:** Dr. N.C. Shivaprakash

**DATES OF PERFORMANCE AUDIT:** 12<sup>th</sup> to 14<sup>th</sup> August 2016.

**NAME OF INSTITUTION WITH LOCATION:** BVB's Sardar Patel College of Engineering, Mumbai-400 058

#### 2.2: PROJECT MANAGEMENT, MONITORING AND EVALUATION

<b>MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS</b>	<b>Perceived score</b>	<b>SUPPORTING EVIDENCE</b> (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
<b>A. Effectiveness of mentoring, reviews,</b>		<ul style="list-style-type: none"> <li>Increase in PG programs, publications and</li> </ul>

<b>surveys and audits conducted, including:</b> <ul style="list-style-type: none"> <li>• Increase in the achievement of the institutions goals and targets set out in the Institutional Development Proposal</li> </ul>		IRG. Improvement in student's results and campus placement.
<b>B. Effective project management and monitoring, including:</b> <ul style="list-style-type: none"> <li>• Precise and reliable information/ data through web based MIS available to stakeholders at all time</li> </ul>		<ul style="list-style-type: none"> <li>• Website is updated regularly. Precise and most of the reliable information/ data through web based MIS available to stakeholders at all time</li> <li>ERP to be purchased.</li> </ul>
<b>C. Effectiveness of faculty evaluation by students, including:</b> <ul style="list-style-type: none"> <li>• Percentage/ increase in percentage of faculty evaluated by students in one or more subjects</li> <li>• Are results of evaluation properly used for teacher improvement?</li> </ul> <b>If yes, is the procedure adopted for teacher improvement including counseling appropriate and effective?</b>		<ul style="list-style-type: none"> <li>• Feedback mechanism is in place and 100% faculty members are evaluated by students</li> </ul> <p>Student's feedback for all subjects is taken for every semester. Mechanical Department has initiated the on-line student's feedback and analysis. This will be implemented in other departments also. Faculty members are informed about their feedback.</p>
<b>OVERALL EVALUATION GRADE FOR 2.2</b>		2

**PERFORMANCE AND DATA AUDIT FEEDBACK**  
(FEEDBACK TO THE INSTITUTION, STATE PROJECT FACILITATION UNITS,  
THE NATIONAL PROJECT IMPLEMENTATION UNIT//AND RELEVANT MENTOR)

**NAME OF PERFORMANCE AUDITOR: Dr. N.C. Shivaprakash**

**DATES OF PERFORMANCE AUDIT: 12th to 14<sup>th</sup> August 2016**

**NAME OF INSTITUTION WITH LOCATION: BVB's Sardar Patel College of Engineering, Mumbai-400 058**

**KEY POINTS FEED BACK TO THE INSTITUTION AT THE END OF THE VISIT AGAINST THE SEVEN ASPECTS OF EVALUATION**

**STRENGTHENING INSTITUTIONS TO IMPROVE LEARNING OUTCOMES AND EMPLOYABILITY OF GRADUATES**

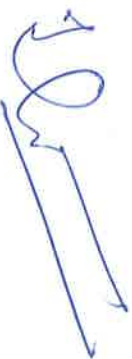
- 17 UG laboratories upgraded with latest equipment and facilities, 4 new laboratories were setup.
- Internet facility (40 Mbps), Library with adequate e-books and journals and Wi-Fi facility throughout the institution for all the faculty and students have been provided.
- An average placement in the last 3 years for the three departments range from 83- 99%.
- For UG students Placement rate is improved by 33.6%
- Internships for students in Industry. 200 students (last three years)
- Curricula and syllabi in reviewed and updated and Industry need based topics are introduced in the curricula and syllabi.
- Finishing school to enhance employability. activities conducted under Finishing School: Diagnostic Test, Campus Recruitment Training, Technical Trainings, Higher Education / Career Guidance Trainings and Mock Placement Drives / Tests
- Conducting remedial teaching for improving transition rate and pass rate of students.

**SCALING-UP POSTGRADUATE EDUCATION AND DEMAND-DRIVEN RESEARCH AND DEVELOPMENT AND INNOVATION**

- Three new PG programs has been introduced. Construction Management, Machine Design and Power Electronics and Power Systems
- Significant rise in placement for PG students

**FACULTY DEVELOPMENT FOR EFFECTIVE TEACHING (PEDAGOGICAL TRAINING)**

- Faculty positions: Vacant posts are regularly filled. At present Out of 46 faculties, 19 have PhD qualification, 24 have M. Tech/M.E./M.Sc. qualification. The process of filling up of remaining vacant post is in progress.



- Faculty members are regularly deputed to attend subject domain trainings, workshops/ seminars/ conferences in India as well as abroad.
- Publication: A number of faculty having h index 3 or greater than 3 has increased in the past three years. Total No. of Journals publications since beginning of TEQIP project: NNational Journal: 24 International Jr:116 Total: 140
- Patents filed: 03
- A share of consultancy fees is distributed directly to the faculty involved. Revenue generated from continuing education programs is also distributed to faculty involved.
- Revenue generated through consultancy and testing and activities: Significant revenue is generated. Approximately Rs. 1cr per year

#### **ESTABLISHING CENTRES OF EXCELLENCE**

**NOT APPLICABLE as there is no sanction of CoE from NPIU.**

#### **CAPACITY BUILDING TO STRENGTHEN MANAGEMENT**

- Senior faculty members have attained the Leadership and management workshop conducted by IIMs

#### **IMPLEMENTATION OF GOOD GOVERNANCE**

- Governing body is conducted in an open manner and the proceedings of the minutes are published on institute's web site.
- BoG meetings were conducted four times in a year
- Four funds have been created and every quarter, specific amount is deposited in these accounts.
- Deans namely academic, finance and research and development have been appointed. Specific areas of operation with roles and responsibility for each committee are chalked out.

#### **PROJECT MANAGEMENT, MONITORING AND EVALUATION**

- Academic board at institute level experts from industries, alumni and institutes of national repute.
- **Accreditation:** Applied for 3<sup>rd</sup> round of accreditation all three UG and 1<sup>st</sup> round for four PG programs. SARs have been uploaded in NBA web portal.
- Delegation of financial, administration and Managerial powers for various functionaries for TEQIP-II implementation
- Many administrative positions are introduced for decentralization of administration.

#### **KEY IMPROVEMENTS NOTICED ON SHORTCOMINGS REPORTED DURING EARLIER PERFORMANCE AUDITS**

**Action taken Report on the Recommendations made during 4<sup>th</sup> Performance Audit**

Sr. No.	Recommendations	Action Taken
1.	Rule/Formula/Equation for conversion of CGPA Grade to % be put up on the Website	Yes conversion formula of CGPA to % is uploaded on the website
2.	Terminals/PCs be increased to cater to the need of students in a better manner	The numbers of Terminals/PCs are also increased. From TEQIP fund computers are purchased.
3.	Grievance Committees at various levels are not working effectively	Efforts are made to function the Grievance committees at various levels effectively.
4.	End Semester Results be displayed on website	Decision in this regard will be taken in academic board meeting
6.	Evaluation Charges for Supplementary Exam be charged depending upon Number of Subject	If we charge per subject then it may be high. We will review and implement if it is beneficial to both students and examination section.
7.	Internet Facilities be enhanced at least in the department	Internet facilities are adequate in all departments. Each and every faculty has access to internet. Further, in each department has computer centre where students have access to internet. Also in library the students have access to computer centre and internet facility. Wi-Fi Facility is provided in the entire college building.
8.	Self-Appraisal System has been introduced, but there is a need to analysis, corrective actions & benefits of corrective action be in place	Self -Appraisal System is in place. As suggested, analysis of self-appraisal, corrective actions is being initiated.
9.	Data Validation & Data Authentication procedures should be improved	Data validation & Data Authentication procedures have been improved and efforts are made to improve it further.
10.	Involvement of faculty in Pedagogy training for improvement in teaching learning should be increased	.More faculties have been already deputed for Pedagogy training and Still sponsoring faculty for Pedagogy training will be increase. It is also proposed to conduct Pedagogical trainings in the institute.
11.	Medical Insurance & health facility awareness to students	Medical Insurance for students is in place and health facility awareness to students is in process.
12.	Increase awareness of TEQIP amongst staff. Earmark funds identified for staff	Increase in awareness about TEQIP amongst staff is created. Staff have given annual plan of expenditure for attending



		Workshops/seminars/subject area training/management /pedagogy training etc.	capacity	enhancement
13.	Rotation of TEQIP staff benefits, if possible	Rotation of TEQIP benefits to staff will be implemented.		
14.	Ladies Common Room be created	Ladies Common Room has been created with all minimum required facilities.		
15.	Group Insurance for Staff be introduced	Mediclinic facility is in place. The proposal of Group Insurance for staff will be placed before BOG. If approved by BOG this benefit will be extended to the staff.		
16.	Model answers be displayed on Notice Boards after the exam is over	Model answer are shown by individual teacher to the students while showing their answer books. As suggested now onwards the Model answers will be displayed on Notice Boards after the exam is over.		
17.	Awareness about Electronic Board of knowledge transfer may be made use of.	Awareness about Electronic Board of knowledge transfer will be made use of.		

#### BRIEF STATEMENTS ON CONTINUING SHORTCOMINGS, AND REASONS:

- Faculty position ; Government policies
- Finishing school in subject domain

#### RECOMMENDATIONS FOR MENTORS

Being a final round of performance audit and the project is ending on 31 October 2016, there are no specific suggestions.

*(Signature)*  
 C.N.C.  
 Professor Assistant