II - PERFORMANCE AUDIT FORMS

INSTITUTE ON PERFORMANCE PROFILE

AUDIT VISIT NUMBER: 1   2   3   4

(Circular number of the visit, as appropriate)

NAME OF PERFORMANCE AUDITOR: Prof. P.D.Porey

DATES OF PERFORMANCE AUDIT:6 - 8 MARCH 2014

NAME OF INSTITUTION WITH LOCATION: S.P.COLLEGE OF ENGINEERING, MUMBAI

PIP REF	INSTITUTION PERFORMANCE PROFILE	OVERALL EVALUATION GRADES
Component 1: Improving the Quality of Education in selected Institutions		
1.1	Strengthening institutions to improve learning outcomes and employability of Graduates	**02.05**
1.2	Scaling – up postgraduate education and demand driven research and development and innovation	**02.203**
1.2.1	Establishing centres of excellence	**N.A.**
1.3	Faculty development for effective teaching (pedagogical Training)	**02.07**
Component 2: Improving System Management		
2.1	Capacity building to strengthen management	**N.A.**
2.1.1	Implementation of good governance	**N.A.**
2.2	Project management, monitoring and evaluation	**N.A.**

INSTITUTION PERFORMANCE PROFILE GRADES AND GRADE DESCRIPTORS	
1	**Significant evidence of good practice** 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	**Some evidence of good practice** 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	**Good practice not widespread or not in place** (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 thepractice 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 thetotal evidence found; and, that the practice is good.

II - PERFORMANCE AUDIT FORM (1.1)

COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

NAME OF PERFORMANCE AUDITOR: Prof. P.D.Porey

DATES OF PERFORMANCE AUDIT:6th March to 8th March 2014.

NAME OF INSTITUTION WITH LOCATION:BVB's Sardar Patel College of Engineering, Mumbai-58.

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

MONMONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS	Perceived Score	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
A. Effectiveness of funds utilized for the teaching, training, learning and research equipment, library, computers, etc. by the institutions, including: • Increase in the satisfaction index of student and faculty	**O2**	**INSTITUTE RECEIVED GRANTS IN JULY 2012**
B. Obtaining Academic Autonomy status, including: • **Number of institutions that have obtained 'Autonomous Institution status' as per University Grants Commission process** within 2 years of joining the Project, or	**02**	Autonomy is obtained from the year 2010. (Refer Annexure 21)
• Effectiveness of utilization of academic autonomy possessed/ obtained (See Table - 26 in PIP)	**02**	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 in time. Efforts are taken to improve results and campus placements. Efforts are also taken to enhance R&D activities, consultancy jobs, and industry-institute interaction. (Refer Annexure Committee list- Annexure- 22

		Subject and Academic boards- Annexure 11 Placement Records- Annexure 10 R& D activities- Annexure -7 Consultancy Projects – Annexure- 8b Industry Institute interaction activities – Annexure -8a. 8b, 9 and 12)
C.**Effort made by Institutions for upgrading qualifications of faculty members, including:** • Percentage of faculty enrolled in MTech and PhD	**02**	Faculty is deputed for upgrading their qualification regularly. In 2011-12 Two faculty out of 44 (4.5%) have been enrolled for PhD. (Refer Annexure –23)
D. **Existing teaching and staff vacancies and effort made by Institutions for filling the vacancies, including:** • Percentage of faculty and staff positions filled and vacant	**02**	Vacant posts are regularly filled. Advertisement for next round of recruitment has been approved by University and is sent for DTE Approval. In 2011-12 Faculty position filled – 44 out of 59 74.6% (Refer Annexure-24)
• Increase in faculty appointed on regular basis	**03**	In 2010-11 faculty position 47 out of 59 In 2011-12 faculty position 44 out of 59 Decreased by 3 No. (6.4%) due to retirement of some faculty. (Refer Annexure- 24)
E. **Effectiveness of equity at Institutional level, including:** • Transition rate of students from the First to the Second year in Undergraduate programmes	**02**	In 2010-11 Transition rate : 80.19% In 2011-12 Transition rate: 84.97% Increase in transition rate: 4.78% (Refer Annexure -25)
	OVERALL EVALUATION GRADE FOR 1.1 USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)	**02.05**

II - PERFORMANCE AUDIT FORM (1.2)
COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

NAME OF PERFORMANCE AUDITOR: Prof. P.D.Porey

DATES OF PERFORMANCE AUDIT:6th March to 8th March 2014.

NAME OF INSTITUTION WITH LOCATION:BVB's Sardar Patel College of Engineering, Mumbai-58.

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

MONMONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS	Perceived score	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
A. **Effectiveness of funds utilized for the teaching, training, learning and research equipment, library, computers, etc. by the institutions, including:** • Increase in the satisfaction index of student and faculty	**02**	**INSTITUTE RECEIVED GRANTS IN JULY 2012**
B. **Effectiveness of scaling - up Postgraduate Technical Education, including:** • Increased enrolment for MTech and PhD • Establishment of proposed laboratories • Cumulative number of assistantships granted	**02**	M.E. – increase in enrollment from 2010-11 to 2011-12 is **104.8%.** (Refer Annex-1.a) Ph.D. – increase in enrollment from 2010-11 to 2011-12 is **25%.** (Refer Annex-1.b) N.A. Total GATE Scholarship for 2011-12 is 14 nos. (Refer Annex-2) PG Assistantship under TEQIP for 2012-13 is 7 nos. (Refer Annex-3)
C. **Progress/achievement in starting new Postgraduate programmes, including:** • Securing AICTE approval	**01**	Two new PG Programmes started in 2011-12 1) Civil – Construction Management 2) Mechanical – Machine Design (Refer Annex-4)

• Establishment of laboratories • Adequacy of student enrolments		2011-12 Two Laboratories Machine Lab & Computer Lab. 2013-14 Two Laboratories CAD-CAM Lab & CFT Lab. (Refer Annex-4.a) Construction Management 17 out of 18 Machine Design 13 out of 18 (Refer Annex-5)
D. Effectiveness of collaborations made with other Institutions in India and abroad, including • Increase in number of co-authored publications in refereed journals	**02**	Increase in number of co-authored publications in referred journals from 2010-11 to 2011-12 is **71.4%**(Refer Annex-6)
E. Increased collaboration with industry in research and development, including: • Increase in number of joint and industry sponsored research and development work undertaken	**02**	R&D Projects in 2013-14 Mechanical Department 7, Electrical Department 1. (Refer Annex-7)
• Increase in financial contribution by industry for R & D	**03**	Nil
• Increase in industry personnel registered for Masters and Doctoral programmes	**02**	Doctoral Programme - 25% (Refer Annex-1.b)
• Increase in industry personnel trained by the institution in knowledge and/or skill areas	**02**	Electrical-1 in 2011-12 Mechancial-3 in 2013-14 (Refer Annex-8a)
• Increase in the number of consultancy assignments secured	**02**	More or less same in 2010-11 and 2011-12 (Refer Annex-8b)
• Increase in the number of students' and faculty visits to and/or training in industry	**02**	Industrial Visits by Students in 2013-14 (Refer Annex-9) Electrical-5 Mechanical–9 Civil-5 Industrial Visit by Faculty-1 (Refer Annex-9)
• Improvements in graduate placement rate	**02**	More or less same in 2010-11 and 2011-12

		(Refer Annex-10)
• Increase in involvement of industry experts in curricula & syllabi improvements, laboratory improvements, evaluation of students and delivering expert lectures	**02**	Industry experts are involved in subject boards, academic boards in curricula & syllabi improvements. Subject Board & Academic Board meetings are regularly held More or less same in 2010-11 and 2011-12 (Refer Annex-11) Expert Lecture from industry are regularly organized. More or less same in 2010-11 and 2011-12 (Refer Annex-12)
• Increase in the number of sandwich programmes between industries and the institution.	**03**	Nil
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	**02**	2010-11 **14.9%**(Refer Annex-13) 2011-12 **6.34%**
G. Increase in the number of publications in refereed journals	**02**	2010-11 No of publications:**07** 2011-12 No. of Publications: **12** 17.1% (Refer Annex-6)
H. Increase in the number of patents filed	**03**	2010-11 – 0 2011-12 – **01**(Refer Annex-14)
	OVERALL EVALUATION GRADE FOR 1.2 USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)	**2.203**

II - PERFORMANCE AUDIT FORM (1.2.1)
COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

NAME OF PERFORMANCE AUDITOR: Prof. P.D.Porey

DATES OF PERFORMANCE AUDIT:

NAME OF INSTITUTION WITH LOCATION:SardarVallabhbhai National Institute of Technology, Surat.

1.2.1: ESTABLISHING CENTRES OF EXCELLENCE

MONMONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
A. Establishing Centres of Excellence Improvement in Research and Development facilities through: • Establishment of new laboratories for applicable thematic research	**NOT APPLICABLE**
• Establishment of a knowledge resource centre (library) in the thematic area	**NOT APPLICABLE**
• Procurement of furniture	
• Civil works	
OVERALL EVALUATION GRADE FOR 1.2.1 **USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)**	**N.A.**

II - PERFORMANCE AUDIT FORM (1.3)
COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

NAME OF PERFORMANCE AUDITOR: Prof. P.D.Porey

DATES OF PERFORMANCE AUDIT:6ᵗʰ to 8ᵗʰ March 2014

NAME OF INSTITUTION WITH LOCATION:BVB's Sardar Patel College of Engineering, Mumbai -58.

1.3:Faculty development for effective teaching (pedagogical Training)

MONMONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS	Perceived score	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
A.Effort made by Institutions providing Pedagogy Training to faculty,including:		**INSTITUTE RECEIVED GRANTS IN JULY 2012**
• Percentage of faculty who have benefitted from the core and advanced modules of pedagogy training	**02**	**11.4%** (Refer Annex-15)
• Improvements in (and/or updating, and more relevant) curricula and /or syllabi	**02**	Yes, Academic Board & Subject Board Meetings are regularly held in order to improve curricula and syllabi by updating and adding relevant topics/courses (Refer Annex-11)
• Improvements in (and/or updating, more relevant) course assessment methods	**02**	Continuous assessment by conducting test 1, test 2 , end semester reexams. Quizzes are conducted, answerbooks are shown to students. (Refer Annex-16)
• Improvements in teaching and learning methods, including provision for students needing extra/remedial support	**02**	1. Remedial Coaching (Refer Annex-17) 2. Guest Lectures (Refer Annex-12) 3. Extra Lectures (Refer Annex-17) 4. Presentation by Video 5. Working Models 6. Charts etc.,
• Percentage of faculty with UG qualification registered/deputed for improving their qualification (*see Section - 3, 4(b) on page 20 of PIP*	**01**	Nil
• 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*)	**02**	In 2011-12 **25%**(Sample certificates are enclosed in Annex-18)

• Progress in securing accreditation of eligible UG & PG programs *(institutions to achieve target of 60% of eligible UG & PG programmes accredited - appliedfor within 2 years of joining the Project)*	**03**	Applied for all the three UG programmes and committee visit is awaited. (Refer Annex-19)
B.Effectiveness of Pedagogy Training, including		
• Percentage of students satisfied with the quality of teachers and changes/developments specifically undertaken as a result of student evaluations	**02**	Approximately 70% (Sample Analysis Report is enclosed in Annex-20)
	OVERALL EVALUATION GRADE FOR 1.3 USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)	**02.07**

II - 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: Prof. P.D.POREY

DATE OF PERFORMANCE AUDIT: 6 – 8 MARCH 2014

NAME OF INSTITUTION WITH LOCATION: BVB's SARDAR PATEL COLLEGE OF ENGINEERING, MUMBAI - 58

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

DETAILED AS BELOW

KEY IMPROVEMENTS NOTICED ON SHORT COMINGS REPORTED DURING EARLIER PERFORMANCE ADITS

1. Positions of Deans have been created
2. 2 New PG Programme started
3. Student Feedback just started
4. Initiative has been take for Seed money to inculcate R&D culture
5. Steps for starting Quality Assurance Cell have been taken up

BRIEF STATEMENTS ON CONTINUING SHORT COMINGS, AND REASONS:

1. Teachers be encouraged to use Projector for additional information during teaching of courses
2. Answer Books/Sheets of End Semester be shown to the students
3. Rule/Formula/Equation for conversion of CGPA Grade to % be put up on Website
4. Timings of Library be increased as per ability of Administration, say at least up to 8 PM and it is felt that number of Terminals/PCs be increased to cater to the need of students in a better manner
5. On Line feedback system for a course by student be in place
6. Grievance Committees at various levels be created with proper records in place
7. End Semester Results be displayed on website
8. Effort for Summer Training may please be enhanced as far as possible
9. Evaluation Charges for Supplementary Exam be charged depending upon No Subject
10. Internet Facilities be enhanced
11. Practical Experience/Exposure be introduced for M.Tech in Construction Management programme
12. Self Appraisal System along with analysis, corrective actions & benefits ofcorrective action be in place
13. Data Validation & Data Authentication procedures should be improved
14. Involvement of faculty in Pedagogy training for improvement in teaching learning should be increased

RECOMMENDATIONS FOR MENTORS

AS ABOVE

(Prof.P.D.Porey)   **Dated 14 MARCH 2014**
Director, S.V.N.I.T., SURAT 09825149292