

**GOVERNMENT OF INDIA
MINISTRY OF HUMAN RESOURCE DEVELOPMENT
DEPARTMENT OF HIGHER EDUCATION**

**LOK SABHA
UNSTARRED QUESTION NO. 239
TO BE ANSWERED ON 05.02.2018**

Quality of Technical Education

†239. DR. PRITAM GOPINATH MUNDE:
DR. SHRIKANT EKNATH SHINDE:
SHRI ANANDRAO ADSUL:
SHRI KUNWAR PUSHPENDRA SINGH CHANDEL:
SHRI DHARMENDRA YADAV:
SHRI SHRIRANG APPA BARNE:
SHRI VINAYAK BHAURAO RAUT:
SHRI ADHALRAO PATIL SHIVAJIRAO:

Will the Minister of HUMAN RESOURCE DEVELOPMENT be pleased to state:

- (a) whether the Government has approved an ambitious plan with the World Bank assistance for improving quality of technical education in the country;
- (b) if so, the details thereof along with the main features of the said plan and the criteria laid down for selection of the institutions for coverage under the said plan;
- (c) whether the work on the said plan has been started and if so, the present status thereof; and
- (d) the extent to which the quality of education in the said institutes is likely to be improved by the said plan?

ANSWER

**MINISTER OF STATE IN THE MINISTRY OF HUMAN RESOURCE
DEVELOPMENT
(DR. SATYA PAL SINGH)**

(a) to (d): Yes Madam. The Govt. of India has approved the third phase of Technical Education Quality Improvement Programme (TEQIP-III), with assistance from the World Bank, for improving the overall quality of Technical Education in 19 focus states (7 low income states, 3 hill states, 8 north eastern region states and Union Territory of Andaman & Nicobar Islands) with an outlay of Rs. 2660 crore and has commenced from April 2017 for implementation in 3 years. The main objectives the project is to enhance quality and equity in selected engineering education institutes and improve the efficiency of the engineering education system in Focus States. The details of main features, criteria of selection of institutes, present status of scheme and expected improvement in quality of technical institutions is at Annexure.

ANNEXURE AS REFERRED TO IN REPLY TO PART (a) to (d) OF THE LOK SABHA UNSTARRED QUESTION NO. 239 FOR 05.02.2018 ASKED BY HON'BLE MEMBER OF PARLIAMENT, DR. PRITAM GOPINATH MUNDE, DR. SHRIKANT EKNATH SHINDE, SHRI ANANDRAO ADSUL, SHRI KUNWAR PUSHPENDRA SINGH CHANDEL, SHRI DHARMENDRA YADAV, SHRI SHRIRANG APPA BARNE, SHRI VINAYAK BHAURAO RAUT, SHRI ADHALRAO PATIL SHIVAJIRAO REGARDING "QUALITY OF TECHNICAL EDUCATION"

Salient features of TEQIP

- For improvement in quality of technical education in Focus States
- Participation of Affiliating Technical Universities (ATUs) to improve the quality of education of unaided institutes affiliated to ATU
- Mentoring of institutes in focus states through Twinning arrangement
 - Well performing TEQIP-I & TEQIP-II institutes selected as mentor
 - Through challenge method
 - One mentor for each mentee institute of focus state
 - Twinning agreement to decide the areas of guidance
- Student Learning Assessment (SLA) by Stanford University
- Direct Fund Transfer System (DFTS) based on Expenditure, Advance, Transfer (EAT) module of Public Financial Management System (PFMS)
- One bank account (designated as Central Pool Account) for utilization of funds by all participating institutes
 - Virtual budget (allocation) to all institutes
 - Component-wise allocation and booking of expenditure
 - Initiation of e-payment directly from Central Pool Account by all institutes
 - Approval of payments using Digital Signature Certificates (DSC)
 - Direct payment/credit to the vendor/beneficiary of institutes
 - Just-in-time credit of payments
 - Quick and Transparent system
 - In alignment to GoI initiative of Digital India
- Disbursement Linked Indicators (DLIs) as defined to assess the progress of the project implementation. World Bank will reimburse the funds on the basis of achievement of DLIs by participating institutes. The DLIs for TEQIP-III are as under:-
 - NBA Accreditation
 - UGC Autonomy
 - Achievement of qualifying score in GATE
 - Implementation of GATE as mandatory exit exam

Selection Criteria under various sub-components of scheme

a) Selection Criteria of Institutes under Sub-component 1.1 (Institutional Development Grants to Government and Government-aided Institutes):

1. Offers at least 3 All India Council for Technical Education (AICTE) approved programs in engineering disciplines
2. Constituted Board of Governors (BoG) as per University Grant Commission (UGC) norms if the institute is autonomous, or AICTE norms if not. However, where the BoG is

constituted as per a State Govt. Order/ legislation, the same is permitted to continue provided regular meetings of BoG should be ensured by the State

3. Principal is appointed on a permanent, full-time basis and does not hold additional charge of another college
4. At least 500 students enrolled
5. At least one cohort of students from the institute has completed their undergraduate degrees
6. Memorandum of Understanding (MoU) signed with State which includes commitments to implement the prescribed academic and administrative reforms and the State Government has passed any required Government Orders necessary to set these reforms in place

b) Selection Criteria of Affiliating Technical Universities under Sub-component 1.2: (Widening Impact through ATUs)

1. Full-time permanent Vice-Chancellor, Registrar and Head of Examinations appointed, without dual responsibilities
2. Audit reports completed for past five years with observations responded to
3. Statutes permitting the ATU to grant autonomy following application by an institution to UGC (and administrative procedures in place)
4. Agreement to undertake reforms in the affiliated Institutions for areas envisaged under the Project.

c) Selection Criteria of institution and ATUs under sub-component 1.3 through Challenge method: (Twinning arrangements to improve performance of participating institutes/ATUs of focus states)

A) Basic Eligibility Criteria: The institutes aiming to be a Mentor Institute shall have

- Participated in TEQIP-I and or TEQIP-II
- At least four engineering programmes (Architecture, Computer Applications, and Design are excluded),
- Obtained academic autonomy from UGC
- NBA accreditation:
 - TEQIP-II Institutes: At least 60% of eligible programmes are NBA-accredited or applied-for NBA accreditation
 - TEQIP-I Institutes: At least 50% of eligible programmes are NBA-accredited or applied-for NBA accreditation

B) Ranking of the eligible institutes

- TEQIP-I institutes: Out of 127 TEQIP-I institutes, 27 Government/Government Aided institutes (that are not covered under TEQIP-II) were awarded marks based on the performance as indicated in Impact Evaluation Study.
- TEQIP-II institutes: Marking was done as per the score card given below:

S. No.	Parameter	Max Marks	Base	Score
1	Percentage of Faculty with Ph.D in Engineering (Regular & Contract)	10	60% and above	10
			45 - 59% and above	8
			Below 45	5
2	Number of Ph.Ds produced in	10	20 and above	10

	Engineering discipline (August 2010 - till date)		Between 15-19	8
			Below 15	5
3	Number of Publications in Engineering discipline in peer reviewed Journals (August 2010- till date)	10	100 and above	10
			80 – 99	8
			Below 80	5
4	Transition rate of students from the first year to the second year of under graduate study	10	65 and above	10
			60 – 65	8
			55 – 60	6
5	Indicators of 6th Joint Review Mission met by institute (assessed as on 31st January, 2017)	10	Met 8 out of 8 indicators	10
			Met 7 out of 8 indicators	8
			Met 6 out of 8 indicators	6
Total		50		

Present status of scheme :

- 169 institutes/ ATUs selected for participation under project, out of which 90 institutes and 10 ATUs from focus states and 66 institutes and 3 ATUs from non- focus states for mentoring purposes
- MOU Signed between MHRD & Focus States, States- Institutes/ ATUs
- MOU signed between AICTE and Stanford University for Students Learning Assessment (SLA) and 1st round of survey conducted in 117 institutes
- 10 IITs imparting pedagogical training through Knowledge Incubation Centres
- 8 IIMs involved for Management/Professional development and 172 senior faculties from participating institutions benefitted from such training
- Mandatory implementation of AICTE's 10 point program for improving quality of technical education
- 1225 faculty (Assistant Professor) engaged on contract basis.
- Institutes started utilizing funds through DFTS system based on EAT module of PFMS

Expected improvement in quality of technical institutions : TEQIP aims at enhancing quality and equity in participating engineering education institutions and improving the efficiency of engineering education system in focus states. Following are expected impact on quality of education in the participating institutions:

- Improvement in technical and critical thinking skills of students
- Increase in NBA accredited Undergraduate and Post-graduate programs
- Improved Transition rate of undergraduate engineering students
- Increase in participation of students from traditionally disadvantaged groups
- Improvement in performance of institutes resulting from Autonomy
- Increase in research orientation in students and accordingly increased enrolment PhD
- Increased faculty-student ratio by recruitment of regular/contract faculty
- Number of Faculty Trained in either their subject domain, pedagogy or management
- Increase in externally funded research and development projects and consultancies
- Increase in Student, Staff and Faculty Satisfaction
- Improved employer satisfaction with engineers recruited in the past year
- Improved and timely implementation of action plans using Board of Governors