

Final Report

of

Group for Technological / Engineering Institutions

on

Implementation of Reservation for OBCs

Submitted to

Oversight Committee

10 August 2006

Department of Agricultural Research & Education
Indian Council of Agricultural Research
Ministry of Agriculture
Krishi Bhavan : New Delhi

F.No.6(13)/2006-A&P(Edn)

Dated the 14th June, 2006

OFFICE ORDER

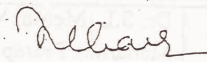
In continuation of the Office Order of even number dated 6th June, 2006 relating to setting up of the Sub-Group of the Oversight Committee to monitor the implementation of the decision to introduce reservations in higher educational institutions, the Competent Authority has decided to nominate one Officer not below the rank of Jt. Secy. each from Planning Commission and Dept. of Expenditure, Ministry of Finance. Accordingly, the revised composition of the Sub-Group dealing with Agricultural Education will be/as follows:-

1.	Dr. S.L. Mehta, Vice Chancellor, Maharaja Pratap University of Agriculture & Technology Udaipur-313 001 (Rajasthan)	-	Chairman
2.	Dr. A.K. Singh, Acting Director Indian Agricultural Research Institute, Pusa, New Delhi-12	-	Member
3.	Dr. Nemo Singh, Acting Director, Indian Veterinary Research Institute Izatnagar -24, 122 (U.P.)	-	Member
4.	Dr. Sushil Kumar, Director National Dairy Research Institute Karnal - 132 001 (Haryana)	-	Member
5.	Dr. Dilip Kumar, Director Central Institute of Fisheries Education Mumbai-400 061	-	Member
6.	Dr. S.N. Puri, Vice Chancellor Central Agricultural University P.O. Box 23, Imphal - 795 004 (Manipur)	-	Member
7.	An officer not below the rank of Jt. Secy. From the Planning Commission	-	Member
8.	An officer not below the rank of Jt. Secy. From the Department of Expenditure, Ministry of Finance	-	Member
9.	Dr. Mruthyunjaya, Dy. Director General (Edn) CAR, Krishi Anusandhan Bhavan-II, Pusa New Delhi-12	-	Member-Secretary

- e. To suggest phasing of expenditure both recurring and non-recurring.
- f. To suggest measures, in short term, to be taken by each institute for the enhanced intake from the academic session 2007-08.
- g. To suggest any other preparatory or consequential steps and required to be taken in order to implement the policy of reservations.

The Group will be serviced by the Ministry of Health & Family Welfare.

The Group is required to submit its recommendations to the Oversight Committee by 31st July, 2006.



(Bhavani Thyagarajan)

Joint Secretary

Tel.No. 23061481

To

1. All the Members.
2. Shri R.R. Shah, Member Secretary, Planning Commission, Yojana Bhawan, New Delhi.
3. Shri Sanjay Mitra, Joint Secretary to PM, Prime Minister's Office, New Delhi with reference to D.O. No. 600/31/C/31/06-ES. II dated 31st May, 2006.
4. PS to HFM/PS to MOS. *Grp 2/6*
5. PPS to Secretary(H&FW)/PS to DGHS/PS to AS(DG).
6. JS(VC)/DDG(M).

I. Introduction

In order to monitor the implementation of the decision to introduce reservations in the Higher Education Institutions, the central government vide order no. 1-1/2005-U I (A) dated 29/05/2006 has constituted an Oversight Committee with the approval of the competent authority.

Further, the following Group for Technological/Engineering Institutions has also been constituted to look into the specific details regarding the course of action to be adopted for giving effect to the implementation of the reservations.

II. Constitution of the Group

Professor M. Anandkrishnan, former VC, Anna University and former Professor, IIT, Kanpur	- Chairman
Professor Sanjay Dhande, Director, IIT Kanpur	- Member
Professor S. K. Dube, Director, IIT Kharagpur	- Member
Professor Sanjeev Bhargava, Director, IIT, Jabalpur	- Member
Professor R. P. Dahiya, Director, NIT, Jaipur	- Member
Professor N. Balakrishnan, Associate Director, IISc, Bangalore	- Member
Professor Y. V. Rao, Director, NIT, Warangal	- Member
Professor I. M. Mishra, Dean Saharanpur Campus, IIT, Roorkee	- Member
Professor Indira Rajaraman, RBI Professor, NIPFP	- Member
Sh. Ravi Mathur, Joint Secretary, Ministry of Human Resource Development	-Convenor

III. Terms of Reference

The terms of reference of the Groups are as follows:

- a. To identify in each of the Institutions / Universities, the courses at Under Graduate and Post Graduate level and student intake for the academic session 2007-08:

- b. To identify in each course the total number of seats for OBCs and consequently to other categories;
- c. To identify for each course the increase in the total number of seats so as to maintain the total availability of seats in the unreserved category;
- d. To determine the requirement of faculty and other infrastructure for the enhanced intake and to determine the additional requirement of recurring and non-recurring expenditure for the same;
- e. To suggest phasing of expenditure both recurring and non-recurring;
- f. To suggest measures, in short term to be taken by each institute for the enhanced intake from the academic session 2007-08;
- g. To suggest any other preparatory or consequential steps and required to be taken in order to implement the policy of reservation;

The Group was asked to submit its report by 31st July 2006. However, Shri M.Veerappa Moily, Chairman of the Oversight Committee had first desired that the Group should give its interim recommendations by 30th June, 2006 and then by 5th July. The Group therefore submitted interim recommendations on 5th July. Later, additional information sought by the Planning Commission was also furnished in the desired formats. The communication between the Oversight Committee/ Planning Commission and the Group as well as all the relevant documents in this regard are enclosed as **Annexure I**.

The Group also discussed in detail the letter of Shri M.Veerrappa Moily, Chairman, Oversight Committee addressed to Professor Anandkrishnan. This letter unequivocally states that while implementing the policy of reservation, it should be ensured that the existing standards of excellence that have been established are preserved and are in fact, improved upon. A copy of this letter is also included in **Annexure I**.

IV. Meetings of the Group:

Five meetings of the Group were held on 2.6.2006 in Ministry of Human Resource Development, on 16.6.2006 in AICTE, on 21.6.2006 in IIT, Madras and on 30.6.2006 and 25.7.2006 in AICTE to consider the additional intake of students, faculty enhancement and infrastructure development and to discuss suitable measures, strategies and plan of action to fulfill the additional requirements that might be expected and quantified in academic, physical and financial terms.

The Group recognized the importance of preserving the Brand Equity of the institutions while considering the expansion plans. The need to maintain quality and excellence of technical education while making inclusive provisions was emphasized.

Implementation of 27 percent reservation for OBCs starting with the academic year 2007-08, along with the present reservation of 22.5 percent for SC/ST students, while at the same time fully protecting the absolute number of seats presently available to the general category, implies an increase in student intake by 54 percent starting with the academic year 2007-08. It was felt necessary to obtain estimates of additional requirements of recurring and non-recurring expenditures for the 54% seat increase. To take stock of the full picture, the group devised appropriate formats in which the institutions would be asked to submit relevant discipline-wise data on intake for UG and PG programmes and sanctioned / actually available faculty strength as well as norms on teacher to student ratio, cadre ratio, infrastructural facilities and basic amenities. The formats designed in Excel, which were similar to the formats suggested by the Oversight Committee, were promptly sent to the institutions and the entire data was collected and compiled for all the institutions.

The Group had further detailed discussions with the Directors/ Representatives of the 40 Technical Institutions in order to obtain their specific inputs/comments/ ideas/suggestions. Three separate meetings of the Group were held with Directors/ Representatives of IITs/IISc, NITs and other institutions.

V. Additional Requirements

(a) Student Strength

The estimated additional student intake was computed over the approved intake for the year 2006-07 for five successive years (2007-08 to 2011-12) for the Bachelor's, Master's and Doctoral degrees for each institution. The details of the estimated year-wise increase in student strength for each institution have been furnished in **Annexure II**.

(b) Faculty Strength

The year-wise increase in student strength was used to calculate the required additional faculty and staff progressively for five years. After discussion with the Directors of the institutions, the Group decided to adopt the following teacher to student ratios (TSR):

Institutions other than IITs/IISc

B.Tech/MCA: 1:15

B. Arch. / PG/ M. Tech. / MBA/ Ph. D. programmes: 1:10

Average TSR for all programmes: 1:12

Cadre ratio Prof: AP: Lect 1:2:4

For IITs/IISc

B.Tech/MCA: 1:12

B. Arch. / PG/ M. Tech. / MBA/ Ph. D. programmes: 1:7

Average TSR for all programmes: 1:9

Cadre ratio Prof: AP: Lect Flexible

The details of the additional faculty required for each of the institutions are given course-wise in **Annexure III**.

(c) Finances

In view of wide variations in financial requirements amongst various institutions, it was decided to adopt a normative basis for estimating the non-recurring and recurring funds. After detailed discussions the following norms were adopted:

Institutions other than IITs/IISc

Recurring Expenditure: 1.6 lakhs/student/year

Non-recurring Expenditure: 7.0 lakhs/student

For IITs

Recurring Expenditure: 2.5 lakhs/student/year

Non-recurring Expenditure: 15.0 lakhs/student

For IISc (Predominantly PG and Doctoral Programmes)

Recurring Expenditure: 3.5 lakhs/student/year

Non-recurring Expenditure: 15.0 lakhs/student

The consolidated information on the estimated requirement of funds (non-recurring as well as recurring) for each of the courses/ classes of the institutions has been prepared in a tabular form for five years and presented in **Annexures III & IV**. A global estimate of the additional non-recurring and recurring expenditure is shown in **Annexure V**. The salary /honorarium for teaching staff has been covered in the estimates of the recurring expenditures. Further, the cost of infrastructure development (including laboratories and their equipment, library, computational and workshop facilities, buildings, faculty houses, hostels, etc) is covered under the non-recurring head.

VI. Assessment about Institutions' Readiness for Implementing Reservation for OBC's

The scale of increase contemplated has no parallel anywhere in the world. Some of the institutes were quite apprehensive at the difficulties of implementing 54% increase in total seats even at the level of only the first year as the infrastructure required for first year B. Tech. was rigid and not currently available to the required extent. The Committee is therefore of the view that not all institutions will be able to implement 27% reservation policy for OBCs from 2007-08. Hence it is recommended that an enabling provision may be put in place for those institutions that have special constraints, limitations or difficulties to enable them to undertake implementation in a phased manner over a period

of not more than three years. It is felt that 54% increase may be equally divided during the three years by such institutions.

Most of the institutions have expressed confidence that they would be able to implement capacity expansion by 50% over a period of three years in a phased manner. NITs at Jalandhar, Hamirpur, Srinagar and Silchar may require additional time for fully implementing the expansion on account of various reasons. Similarly, IITs at Bombay, Delhi and Roorkee are cramped on space and would therefore require additional land for expansion depending upon the availability of additional land, some adjustment may be necessary in actual phasing of expansion. IIT, Guwahati is still evolving as per its mandate and has not yet been able to achieve its original targets. Further, IIITMs at Allahabad, Jabalpur and Gwalior are also still evolving and have yet to realize their full potential. These institutions may also require flexibility in time frame. IISc would be able to implement the reservation for OBCs in three years time. However, all the institutions must be encouraged to fully realize the expansion in a three-year time frame.

The Group assumed that in so far as OBC reservation in the Ph.D programmes is concerned, wherever the reservation for SC/ST in Ph.D exists now, it will also be applicable for OBCs. However, IISc indicated that their Ph.D programmes should be exempted from OBC reservation formula as is being done for other advanced research institutions like TIFR.

VII (A) Detailed Project Report (DPR)

As described in the previous paragraph, most institutions have agreed to implement reservation fully in a period of three years except for a few which have some special difficulties. Under these circumstances, the preparation of the Detailed Project Report would require considerable amount of effort and time. The group expressed the view that each institution may be required to prepare a DPR in terms of the development of infrastructure and the cost estimates for submission to Ministry of Human Resource Development. Further, the Ministry of Human Resource Development may be requested to take immediate action to release the necessary grant for initiating the process of

implementation. In preparing the DPR, the institutions may be allowed to adopt the following guidelines:

1. Each institution would begin the implementation forthwith and complete it in not more than three years. The expansion of the Masters' and Ph.D programmes may be started from the year 2009-2010 wherever necessary, except for IISc that would start the expansion for Masters' programmes in the year 2007-08 and for Ph.D, in the year 2009-2010. Thus, the expansion would be completed for UG programmes in three years while for PG/Ph.D, it would be completed in another two to three years.
2. An appropriate proforma may be prepared on the pattern of EFC proforma with specified norms and parameters as well as guidelines for preparation of the DPR. The institutions would be asked to submit the DPR in the above described proforma to Ministry of Human Resource Development.
3. As soon as the proforma is received by Ministry of Human Resource Development, at least an adhoc grant may be immediately released to the institutions.
4. The nature of the DPR would vary from institution to institution depending upon the phasing of expansion programme. The common guiding principle would be that the report shall be consistent with the numbers/figures already indicated earlier by the respective institution.

Development of Infrastructure

The development of infrastructure relates to additional academic facilities such as class rooms, laboratories, library, computers, etc, and the physical facilities, such as hostel, residence, water supply and other utilities. Even assuming sufficient funds are available the speed with which infrastructure requirement to be met will vary among different institutions. The factors that will determine the infrastructure development for the increased intake are as follows:

- Institutions that have adequate land area may be able to start new construction sooner than those that are cramped for space and may have to acquire new land.

- Some institutions may have spare academic and physical infrastructure to accommodate the increased intake. However, many would have to improvise such as renting of space.
- The location of some institution is such that new construction may involve delays.

It is recommended that simple and flexible procedures be adopted for development of infrastructure. There is an acute limitation of space and building infrastructure (hostels/housing etc.) in some of the institutions while others are located at a distant far off inaccessible place or a difficult terrain. There is a need to have official approvals for relaxation in the operational procedures and practices. An Empowered Committee can be put in place to authorize the institutions for quick expeditious action.

Support services also need to be augmented and basic amenities and utilities have also to be provided for which necessary hassle free administrative clearances should be available. Suggestions were made to make optimal use of available infrastructure by use of innovative approaches in scheduling of classes, technology enabled learning and so on. Introduction of virtual learning scheme with admissions based on the same entrance examination and reservation formula is expected to reduce the pressure on faculty and infrastructure.

VII (B) Additional Faculty and Resources

The following strategies can prove to be very useful in reducing the effective teaching load and therefore the requirement of additional faculty:

1. Revision of curricula (introduction of new programmes / phasing out of obsolete courses, etc.),
2. Using a mirror time table,
3. Adopting shift system,
4. Employing a larger size class by re-designing the curriculum with common electives being put together, and
5. Using the virtual mode in conjunction with the regular contact mode judiciously.

The following approaches/ strategies can be used to source the additional faculty:

1. Special recruitment drive to attract good competent faculty from within the country as well as from abroad.
2. Organizing well advertised recruitment fairs
3. Offering attractive remuneration packages/special incentives/allowances/perks/ multiple advance increments (such as including handsome joining allowance, relocation grant, job for spouse, assured admission for children, etc.).
4. Engaging adhoc /guest /visiting faculty.
5. Attracting competent professionals from industry to the teaching profession as adjunct/visiting faculty,
6. Attracting Ph.D Scholars/Research Associates/Post Doctor Fellows for teaching with special incentives.
7. The doctoral / post doctoral fellowship amounts as well as numbers may be increased and Ph.D scholars/Post Doctoral fellows may be engaged in assisting the regular faculty in the teaching work, especially in tutorial classes.
8. The retirement age may be increased to 65 years immediately.
9. The superannuated teachers may be reemployed upto the age of 70 years.

Attracting, retaining and developing faculty was perceived as the most critical component of the process of implementing reservation. Several measures were suggested to create the culture and the environment that are deemed necessary for attracting and retaining competent faculty as well as to prevent/ minimize attrition and to effectively cope with the pressing shortage of faculty. The suggestions include producing good qualified faculty, through such programmes as Integrated Dual degrees; Flexible/ Modular M.E/M. Tech. programmes, sequential summer programmes, etc.; developing an action plan for upgradation/development of existing faculty (for PG as well as Ph.D programmes) by further expansion of Quality Improvement Programme (increasing the funding) and National Doctoral Fellowship & Career Award for Young Teachers (increasing the funding) – increasing the fellowship amount as well as the number of seats, establishing /national centres for faculty development, etc.

VIII. Policy Changes / Administrative Action

The required policy changes will relate to the following:

- ***Phasing of additional intake:*** A time frame of at least three years for full implementation of 54% increase may be required for several institutions. An enabling provision may be made for this purpose.
- ***Restructuring of the curricula:*** The curricular changes may help to maximize the use of available infrastructure besides reducing the total requirements of teachers and staff.
- ***Revised admission norms keeping in view the reservation policy and excellence:*** The threshold for admissions should be determined by the respective institutions so as to preserve quality and excellence.
- ***Flexible faculty recruitment policy:*** (Several options are listed below)

It would be realistic if each institution is given the necessary authority to adopt the necessary policy changes within the overall objectives of the reservation policy. Furthermore,

1. The institutions may be enabled to adopt an accelerated approach to faculty recruitment.
2. They may be allowed to call for recruitment of faculty as many times in the year as required, consider unsolicited applications and make selections through references, in absentia interviews, video conferencing, etc.
3. The Selection Committee should not be handicapped on account of the non-availability of any of the nominees. As such, a panel of nominees may be adopted as approved by the respective BoG.
4. The Board of Governors of the respective institutes may be empowered to constitute the Selection Committee.
5. Advance increments upto five may be given by the Selection Committee itself and beyond five increments may be given subject to subsequent approval of the Board of Governors.
6. A flexible cadre ratio on the pattern of IITs may be adopted for all the institutions.

IX Administrative Action/ Financial Empowerment at the Centralized Level:

Most institutions are governed by statutory bodies such as the Building & Works Committee, Finance Committee and the Board of Governors.

1. The Board of Governors of each institution may be empowered to constitute a High Powered Committee at the local institutional level to effectively and expeditiously deal with matters such as the administrative sanctions, the tendering process, the selection of contractors etc.
2. As soon as the DPR is submitted, an adhoc grant may be released immediately.
3. Further release of funds may be phased as per requirements.
4. State Governments should be requested to provide necessary assistance in regard to matters of state regulations such as land acquisition, clearance etc and to make suitable interventions in the matter of fulfillment of tax requirements, water supply, electricity load etc. Also, the Ministry of Human Resource Development may be requested to prepare a broad framework for relaxation of existing procedures.


X. The Great Opportunity And A Road Map For Expansion, Inclusion And Excellence

In spite of the numerous difficulties, constraints and limitations briefly narrated above, the Group saw a great opportunity in the present scenario for institutions to strategically re-position themselves in the new context and to re-organize and re-structure themselves with new innovative programmes and more effective management practices as well as altogether new ways of thinking. It is time for these top technical and higher education institutions to expand, diversify and grow on a massive scale. Members and Directors have all expressed confidence and hope that, with the Government support and appropriate enabling procedures and mechanisms, the rather difficult target can still be achieved.

Annexure R

B. S. Sreedhar

DLR2049



एम० वीरप्पा मोइली
अध्यक्ष
M. VEERAPPA MOILY
Chairman
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1st Floor, Vigyan Bhawan Annexe,
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D.O.No. 120/17/2006-PL

Dated the 13th June, 2006

Dear Prof. Mandakrishna J.

You may be aware that the Oversight Committee has already had three meetings and has now arrived at a decision about the manner in which the tasks entrusted to the Committee can be best fulfilled.

The basic approach of the Committee will be focused around the three themes of - (a) expansion of the institutes of higher learning; (b) inclusion in order to ensure that the 27% reservation is provided for the OBCs while at the same time ensuring that the present level of seats for the general category students does not decline; and (c) while doing so, ensuring that the existing standards of excellence that have been established are preserved and are, in fact, improved upon.

The Oversight Committee has decided, in accordance with the mandate given to it, that the provision of 27% reservation in all the institutes of higher learning should be achieved w.e.f. the student intake for the academic year beginning in 2007. Since the requirement of ensuring that the seats available to the general category at present does not decline is also to be simultaneously accomplished, this will mean that the overall intake for the academic year 2007-08 will have to be 54% more than in the current year.

The Immediate focus of the Oversight Committee is, therefore, on building up of the infrastructure (of all kinds, physical, academic and faculty) required for this purpose. Since this is an activity that has substantial lead times, it is necessary that we commence this process immediately so that the institutes are ready for the higher intake of 54% by June 2007.

"Kaustubha", # 1, R.T. Nagar, Bangalore-560 032 India,
Tel: 0 80 2343 6491, Fax: 0 80 2333 4784, Mobile: 0 98435 38333 E mail: vmoily@kannid.in

The Oversight Committee has planned to submit an interim report latest by 30-06-2006, focusing on the issues involved in building up of infrastructure. It would, therefore, be necessary for the Oversight Committee to have your inputs on the various steps to be taken in this regard, together with the time lines thereof, atleast one week in advance of this date, i.e., by 23-06-2006.

I am conscious of the fact that the length of time that would ideally be required for this activity is quite insufficient. However, I understand that you have already convened meetings of your respective groups and have deliberated upon all the issues that are relevant. There should, I hope, therefore, be no great difficulty in meeting this deadline.

The exact listing of the Institutes of higher learning that would have to be considered in each of your groups will be sent to you in a day or two.

I am enclosing proforma (part I) & (II) for obtaining necessary input;

with regard,


Yours sincerely,

M. Veerappa Moily

[M. VEERAPPA MOILY]

Prof. M. Anandkrishnan
Chairman
Madras Institute of Development Studies
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Gandhinagar
Adyar
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Annexure L



एम० वीरप्पा मोइली
अध्यक्ष
M. VEERAPPA MOILY
Chairman
OVERSIGHT COMMITTEE

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1st Floor, Vigyan Bhawan Annex
Maulana Azad Road, New Delhi-110011

D.O. No. 76-059/06 Dated the 13th July 2006

Dear Shri *Sharma*,

Subject:- Preparation of the Final Report by the Groups

As you know, the final reports by the Groups have to be completed and sent by 31st July, 2006. The final report needs to be prepared with a lot of care since this will be the basis for the Oversight Committee to finalize its recommendations to the Government of India.

I would like the Groups to include the following while preparing the final report.

1. A definite assessment about the readiness of each of the institutions to implement the capacity expansion of 54% starting from 2007-08
2. A detailed Action Plan in respect of each institution for implementing the expansion of capacity. This Action Plan should include the following:
 - Detailed Project Report covering the expansion of physical infrastructure.
 - The need of additional faculty and the sources from which the same can be obtained, including, if necessary, the re-employment of retired or retiring persons on contract.

269/Sr. Consultant B/14
14/7/06
SA (Adm) / 14/6
Sr. Cofr. (Secy. Et. Control)

महेश कुमार शर्मा
C/o Member Secretary
भारतीय कंप्यूटर डि. नो. 15043
दिनांक/Date: 14.7.06

"Kaustubha", # 1, R.T. Nagar, Bangalore-560 032 India,
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- Policy changes or administrative action at the Government level that will be required to implement the expansion in the desired time frame.
- Administrative and financial empowerment that would be required at decentralized levels.

It will also be necessary to specify measures and initiatives that are required to maintain and/or enhance the quality of excellence of the institutions concerned. The final report should delineate a road map for expansion, inclusion and excellence in the institutions. In particular, the roadmap should indicate steps to upgrade the institutions of national importance to the level of outstanding global institutions, and upgrade other institutions of higher learning to the level of institutes of national importance.

I am looking forward to receiving your final report by 31st July, 2006.

M. Veerappa Moily

Yours sincerely,

M. Veerappa Moily

(M.Veerappa Moily)

All Group Chairmen
(As per list attached)



To
Prof. M. Anandkrishnan
Chairman,
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D.O.No.P-11099/5/2006-Edn.

14th July, 2006

Subject:- Interim Report for the Oversight Committee – Technology Group-Additional Inputs required.

Sir,
This is in continuation of our discussions regarding the revised Interim Report.

I am directed to request you to provide the following inputs also in your interim report:

1. The manner and sequence in which the capacity expansion of 54% will take place.
2. The implementation of 27% reservation for OBCs from 2007-08. In case it is not possible to implement it, the details of the phased implementation for the year 2007-08 and 2008-09.
3. The policy changes that would be required in respect of each area to implement the reservations.
4. Advance administrative and financial actions that have to be initiated.
5. Order of magnitude of estimates about the likely financial resources required.

We hope you would appreciate the urgency and submit the revised Interim Report along with these inputs latest by the 19th July, 2006.

Thanking you,

Yours Faithfully,
Shakila T. Shamsu
(Shakila T. Shamsu)
Joint Adviser(Edn.)

ci JS (T)
MHD

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TOTAL APPROVED INTAKE AND THE PROPOSED ADDITIONAL INTAKE DURING 2007-08 TO 2011-12**A - IITs / IISc**

SI No	Name of Institution	Approved Intake for the year 2006-07													Additional Intake during					
		B.Tech	B. Arch	M. Tech/ Arch	M.Tech 3yrs	M.Sc/ MS	Dual Degree	Int. M Tech 5	Int M.Sc	MCA	MBA	M Phil	Ph.D	Total	2007-08	2008-09	2009-10	2010-11	2011-12	Total 2007-08 to 2011-12
1	Indian Institute of Technology, Delhi	422	0	798	0	122	100	31	0	0	87	0	160	1720	929	929	385	385	157	2785
2	Indian Institute of Technology, Kanpur	357	0	1411	0	112	101	0	97	0	103	0	300	2481	1340	1340	462	462	269	3872
3	Indian Institute of Technology, Guwahati	365	0	210	0	90	0	0	0	0	0	0	100	765	413	413	251	251	54	1382
4	Indian Institute of Technology, Kharagpur	448	32	1043	63	181	249	0	166	63	132	0	215	2592	1400	1400	633	599	357	4390
5	Indian Institute of Technology, Roorkee	502	51	509	36	159	43	20	0	31	62	0	300	1713	925	925	511	495	224	3080
6	Indian Institute of Technology, Madras	323	0	232	0	105	197	30	0	0	50	0	250	1187	641	641	432	432	258	2404
7	Indian Institute of Technology, Bombay	322	0	521	0	156	228	0	24	0	82	15	167	1515	818	818	408	400	226	2671
8	Indian Institute of Science, Bangalore	0	0	268	0	0	0	0	0	0	0	0	650	918	496	496	351	351	351	2044
Grand Total														12891	6961	6961	3434	3375	1896	22627

B - NITs

SI No	Name of Institution	Approved Intake for the year 2006-07							Additional Intake during						
		B. Tech	B. Arch	M. Tech / Arch	M. Sc	MCA	MBA	Ph.D	Total	2007-08	2008-09	2009-10	2010-11	2011-12	Total 2007-08 to 2011-12
1.	Motilal Nehru National Institute of Technology, Allahabad - 211004, UP	512	0	204	0	60	30	20	826	446	446	320	287	11	1510
2.	Maulana Azad National Institute of Technology, Bhopal - 462007, MP	630	40	167	0	40	40	30	947	511	511	400	378	38	1838
3.	National Institute of Technology, Calicut - 673601, Kerala	410	30	234	30	30	0	20	754	407	407	265	248	27	1354
4.	National Institute of Technology, Durgapur - 713209, WB	585	0	210	0	30	60	20	905	489	489	343	327	11	1658
5.	National Institute of Technology, Hamirpur - 177005, HP	300	30	60	0	0	0	20	390	221	221	189	189	27	848
6.	Malaviya National Institute of Technology, Jaipur, -302017, Rajasthan	430	40	288	60	0	40	30	888	480	480	270	270	38	1537
7.	Dr. B R Ambedkar National Institute of Technology, Jalandhar, -144011, Punjab	430	0	144	40	0	0	20	614	342	342	243	243	11	1182
8.	National Institute of Technology, Jamshedpur, -831014, Jharkhand	390	0	54	0	60	0	15	504	280	280	251	219	8	1038
9.	National Institute of Technology, Kurukshetra, -136119, Haryana	450	0	180	0	0	60	20	690	383	383	254	254	11	1285
10.	Vivesvaraya National Institute of Technology, Nagpur, MS	380	40	185	0	0	0	20	605	338	338	238	238	32	1183
11.	National Institute of Technology, Patna -800005, Bihar	360	40	126	0	0	0	40	526	306	306	238	238	43	1130

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SI No	Name of Institution	Approved Intake for the year 2006-07								Additional Intake during					
		B. Tech	B. Arch	M. Tech / Arch	M. Sc	MCA	MBA	Ph.D	Total	2007-08	2008-09	2009-10	2010-11	2011-12	Total 2007-08 to 2011-12
12.	National Institute of Technology, Raipur-492010,,Chhattishgarh	580	40	72	0	60	0	0	752	406	406	367	335	22	1536
13.	National Institute of Technology, Rourkela,-769008,,Orissa	390	0	252	54	30	0	30	756	408	408	243	227	16	1302
14.	National Institute of Technology, Silchar,-788010,,Assam	300	0	72	0	0	0	10	372	206	206	167	167	5	753
15.	National Institute of Technology,, Srinagar,-190006,,J&K	365	118	0	0	0	0	0	483	261	261	261	261	64	1107
16.	Sardar Vallabhbhai National Institute of Technolog,Surat,-395007,,Gujarat	450	0	180	0	0	0	20	630	351	351	254	254	11	1220
17.	National Institute of Technology Karnataka,Surathkal,-575025,,Karnataka	480	0	271	0	60	0	15	811	446	446	300	267	8	1467
18.	National Institute of Technology,, Tiruchirappalli,-620015,,TN	615	30	600	90	60	60	30	1485	802	802	397	365	32	2398
19.	National Institute of Technology,, Warangal,-506004,,AP	457	0	215	90	30	40	30	862	465	465	279	263	16	1489
20.	National Institute of Technology, Agartala,-799055,,Tripura	253	0	0	0	0	0	0	253	137	137	137	137	0	546
Grand Total									14053	7686	7686	5414	5165	431	26381

C – Other Central Technical Institutions

SI No	Name of Institution	Approved Intake for the year 2006-07									Additional Intake during					
		B. Tech	B. Arch	M. Tech / Arch	Int. M.Tech 5Yr	ADC	MPCLIS	MBA	Ph.D	Total	2007-08	2008-09	2009-10	2010-11	2011-12	Total 2007-08 to 2011-12
1	National Institute of Technical Teacher's Training and Research, Chandigarh	0	0	257	0	0	0	0	10	257	139	139	0	0	0	278
2	National Institute of Technical Teacher's Training and Research, Kolkata	0	0	54	0	0	0	0	0	54	29	29	0	0	0	58
3	National Institute of Technical Teacher's Training and Research, Chennai	0	0	19	0	0	0	0	0	19	10	10	0	0	0	21
4	National Institute of Technical Teacher's Training and Research, Bhopal	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0
5	National Institute of Foundry & Forge Technology, Ranchi	70	0	36	0	60	0	0	0	166	90	90	38	38	0	255
6	Indian Institute of Information Technology, Allahabad	300	0	120	0	0	50	120	10	600	324	324	167	167	5	988
7	ABV Indian Institute of Information Technology & Management, Gwalior	0	0	80	80	0	0	80	0	240	130	130	43	43	43	389
8	Indian Institute of Information Technology Design & Manufacturing, Jabalpur	225	0	30	0	0	0	0	0	255	138	138	122	122	0	518
9	School of Planning & Architecture, New Delhi	0	90	140	0	0	0	0	0	230	124	124	49	49	49	394
10	Indian School of Mines, Dhanbad	508	0	360	160	25	0	40	0	1093	590	590	361	361	86	1988
11	Sant Longowal Institute of Engineering & Technology, Longowal	320	0	86	0	0	0	0	0	406	219	219	173	173	0	784
Grand Total											1704	1704	863	863	184	5317

Institution-wise approved intake, additional increase in intake, additional faculty requirements and estimated recurring and non-recurring expenditure over a 5 year period for implementation of reservation

Programme: A.1 B.E / B.Tech (4 year duration)

SI No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 4 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 4 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Grand Total of Expenditure (Rs. In lakhs)	
								2007-08	2008-09	2009-10	2010-11	2011-12		Total Recurring
1	Indian Institute of Technology, Delhi	422	228	19	76	3418	13673	570	1139	1709	2279	2279	7976	21649
2	Indian Institute of Technology, Kanpur	357	193	16	64	2892	11567	482	964	1446	1928	1928	6747	18314
3	Indian Institute of Technology, Guwahati	365	197	16	66	2957	11826	493	986	1478	1971	1971	6899	18725
4	Indian Institute of Technology, Kharagpur	448	242	20	81	3629	14515	605	1210	1814	2419	2419	8467	22982
5	Indian Institute of Technology, Roorkee	502	271	23	90	4066	16265	678	1355	2033	2711	2711	9488	25753
6	Indian Institute of Technology, Madras	323	174	15	58	2616	10465	436	872	1308	1744	1744	6105	16570
7	Indian Institute of Technology, Bombay	322	174	14	58	2608	10433	435	869	1304	1739	1739	6086	16519
9	Motilal Nehru National Institute of Technology, Allahabad - 211004, UP	512	276	18	74	1935	7741	442	885	1327	1769	1769	6193	13935
10	Maulana Azad National Institute of Technology, Bhopal - 462007, MP	630	340	23	91	2381	9526	544	1089	1633	2177	2177	7620	17146

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SI No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 4 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 4 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Grand Total of Expenditure (Rs. In lakhs)	
								2007-08	2008-09	2009-10	2010-11	2011-12		Total Recurring
11	National Institute of Technology, Calicut - 673601, Kerala	410	221	15	59	1550	6199	354	708	1063	1417	1417	4959	11159
12	National Institute of Technology, Durgapur - 713209, WB	585	316	21	84	2211	8845	505	1011	1516	2022	2022	7076	15921
13	National Institute of Technology, Hamirpur - 177005, HP	300	162	11	43	1134	4536	259	518	778	1037	1037	3629	8165
14	Malaviya National Institute of Technology, Jaipur, - 302017, Rajasthan	430	232	15	62	1625	6502	372	743	1115	1486	1486	5201	11703
15	Dr. B R Ambedkar National Institute of Technology, Jalandhar, -144011, Punjab	430	232	15	62	1625	6502	372	743	1115	1486	1486	5201	11703
16	National Institute of Technology, Jamshedpur, - 831014, Jharkhand	390	211	14	56	1474	5897	337	674	1011	1348	1348	4717	10614
17	National Institute of Technology, Kurukshetra, - 136119, Haryana	450	243	16	65	1701	6804	389	778	1166	1555	1555	5443	12247
18	Vivesvaraya National Institute of Technology, Nagpur, MS	380	205	14	55	1436	5746	328	657	985	1313	1313	4596	10342
19	National Institute of Technology, Patna (formally known as BCE, - 800005, Bihar)	360	194	13	52	1361	5443	311	622	933	1244	1244	4355	9798
20	National Institute of Technology, (formally Engg. College), Raipur, - 492010, Chhattisgarh	580	313	21	84	2192	8770	501	1002	1503	2004	2004	7016	15785
21	National Institute of Technology, Rourkela, - 769008, Orissa	390	211	14	56	1474	5897	337	674	1011	1348	1348	4717	10614
22	National Institute of Technology, Silchar, - 788010, Assam	300	162	11	43	1134	4536	259	518	778	1037	1037	3629	8165

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SI No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 4 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 4 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Grand Total of Expenditure (Rs. In lakhs)	
								2007-08	2008-09	2009-10	2010-11	2011-12		Total Recurring
23	National Institute of Technology,,Srinagar,-190006,,J&K	365	197	13	53	1380	5519	315	631	946	1261	1261	4415	9934
24	Sardar Vallabhbhai National Institute of Technolog, Surat,-395007,,Gujarat	450	243	16	65	1701	6804	389	778	1166	1555	1555	5443	12247
25	National Institute of Technology Karnataka, Surathkal,- 75025,, Karnataka	480	259	17	69	1814	7258	415	829	1244	1659	1659	5806	13064
26	National Institute of Technology,,Tiruchirappalli,-620015,,TN	615	332	22	89	2325	9299	531	1063	1594	2125	2125	7439	16738
27	National Institute of Technology,,Warangal,-506004,,AP	457	247	16	66	1727	6910	395	790	1185	1579	1579	5528	12438
28	National Institute of Technology, Agartala,-799055,,Tripura	253	137	9	36	956	3825	219	437	656	874	874	3060	6886
29	National Institute of Foundry & Forge Technology, Ranchi	70	38	3	10	265	1058	60	121	181	242	242	847	1905
30	Indian Institute of Information Technology, Allahabad	300	162	11	43	1134	4536	259	518	778	1037	1037	3629	8165
31	Indian Institute of Information Technology Design & Manufacturing, Jabalpur	225	122	8	32	851	3402	194	389	583	778	778	2722	6124
32	Indian School of Mines, Dhanbad	508	274	18	73	1920	7681	439	878	1317	1756	1756	6145	13826
33	Sant Longowal Institute of Engineering & Technology, Longowal	155	84	6	22	586	2344	134	268	402	536	536	1875	4218
Total		12764	6892	483	1937	60078	240324	12360	24719	37078	49435	49436	173027	413351

Institution-wise approved intake, additional increase in intake, additional faculty requirements and estimated recurring and non-recurring expenditure over a 5 year period for implementation of reservation

Programme: A.2 B.Arch (5 years duration)

Sl No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 5 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 5 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Total Recurring	Grand Total of Expenditure (Rs. In lakhs)
								2007-08	2008-09	2009-10	2010-11	2011-12		
1	Indian Institute of Technology, Kharagpur	32	17	2	9	259	1296	43	86	130	173	216	648	1944
2	Indian Institute of Technology, Roorkee	51	28	3	14	413	2066	69	138	207	275	344	1033	3098
3	Maulana Azad National Institute of Technology, Bhopal - 462007, MP	40	22	2	11	151	756	35	69	104	138	173	518	1274
4	National Institute of Technology, Calicut - 673601, Kerala	30	16	2	8	113	567	26	52	78	104	130	389	956
5	National Institute of Technology, Hamirpur - 177005, HP	30	16	2	8	113	567	26	52	78	104	130	389	956
6	Malaviya National Institute of Technology, Jaipur, - 302017, Rajasthan	40	22	2	11	151	756	35	69	104	138	173	518	1274
7	Vivesvaraya National Institute of Technology, Nagpur, MS	40	22	2	11	151	756	35	69	104	138	173	518	1274
8	National Institute of Technology, Patna (formally known as BCE, -800005, Bihar)	40	22	2	11	151	756	35	69	104	138	173	518	1274
9	National Institute of Technology, Raipur, -492010, Chhattishgarh	40	22	2	11	151	756	35	69	104	138	173	518	1274
10	National Institute of Technology, Tiruchirappalli, - 620015, TN	30	16	2	8	113	567	26	52	78	104	130	389	956
11	School of Planning & Architecture, New Delhi	90	49	5	24	340	1701	78	156	233	311	389	1166	2867
Total		463	250	25	125	2109	10544	440	881	1321	1761	2202	6606	17149

Institution-wise approved intake, additional increase in intake, additional faculty requirements and estimated recurring and non-recurring expenditure over a 5 year period for implementation of reservation

Programme: A.3 M.Tech / M.Arch / MCP (2/3 years duration)

SI No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 2 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 2 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Grand Total of Expenditure (Rs. In lakhs)	
								2007-08	2008-09	2009-10	2010-11	2011-12		Total Recurring
1	Indian Institute of Technology, Delhi	798	431	62	123	6464	12928	1077	2155	2155	2155	2155	9696	22623
2	Indian Institute of Technology, Kanpur	1411	762	109	218	11429	22858	1905	3810	3810	3810	3810	17144	40002
3	Indian Institute of Technology, Guwahati	210	113	16	32	1701	3402	284	567	567	567	567	2552	5954
4	Indian Institute of Technology, Kharagpur	1106	597	85	171	8959	17917	1493	2986	2986	2986	2986	13438	31355
5	Indian Institute of Technology, Roorkee	545	294	42	84	4415	8829	736	1472	1472	1472	1472	6622	15451
6	Indian Institute of Technology, Madras	232	125	18	36	1879	3758	313	626	626	626	626	2819	6577
7	Indian Institute of Technology, Bombay	521	281	40	80	4220	8440	703	1407	1407	1407	1407	6330	14770
8	Indian Institute of Science, Bangalore	311	168	24	48	2519	5038	420	840	840	840	840	3779	8817
9	Motilal Nehru National Institute of Technology, Allahabad - 211004, UP	204	110	11	22	771	1542	176	353	353	353	353	1586	3129
10	Maulana Azad National Institute of Technology, Bhopal - 462007, MP	167	90	9	18	631	1263	144	289	289	289	289	1299	2561
11	National Institute of Technology, Calicut - 673601, Kerala	234	126	13	25	885	1769	202	404	404	404	404	1820	3589
12	National Institute of Technology, Durgapur - 713209, WB	210	113	11	23	794	1588	181	363	363	363	363	1633	3221
13	National Institute of Technology, Hamirpur - 177005, HP	60	32	3	6	227	454	52	104	104	104	104	467	920

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SI No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 2 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 2 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Grand Total of Expenditure (Rs. In lakhs)	
								2007-08	2008-09	2009-10	2010-11	2011-12		Total Recurring
14	Malaviya National Institute of Technology, Jaipur,- 302017,,Rajasthan	288	156	16	31	1089	2177	249	498	498	498	498	2239	4417
15	Dr. B R Ambedkar National Institute of Technology, Jalandhar,-144011,,Punjab	144	78	8	16	544	1089	124	249	249	249	249	1120	2208
16	National Institute of Technology,,Jamshedpur,- 831014,, Jharkhand	54	29	3	6	204	408	47	93	93	93	93	420	828
17	National Institute of Technology,,Kurukshetra,- 136119,,Haryana	180	97	10	19	680	1361	156	311	311	311	311	1400	2760
18	Vivesvaraya National Institute of Technology,, Nagpur,,MS	185	100	10	20	699	1399	160	320	320	320	320	1439	2837
19	National Institute of Technology,,Patna,-800005,,Bihar	126	68	7	14	476	953	109	218	218	218	218	980	1932
20	National Institute of Technology, Raipu,-492010,,Chhattishgarh	72	39	4	8	272	544	62	124	124	124	124	560	1104
21	National Institute of Technology,,Rourkela,- 769008,,Orissa	252	136	14	27	953	1905	218	435	435	435	435	1960	3865
22	National Institute of Technology,,Silchar,- 788010,,Assam	72	39	4	8	272	544	62	124	124	124	124	560	1104
23	Sardar Vallabhbhai National Institute of Technology, Surat,- 395007,,Gujarat	180	97	10	19	680	1361	156	311	311	311	311	1400	2760
24	National Institute of Technology Karnataka, Surathkal,- 75025,, Karnataka	271	146	15	29	1024	2049	234	468	468	468	468	2107	4156
25	National Institute of Technology,,Tiruchirappalli,- 620015,,TN	600	324	32	65	2268	4536	518	1037	1037	1037	1037	4666	9202
26	National Institute of Technology,,Warangal,- 506004,,AP	215	116	12	23	813	1625	186	372	372	372	372	1672	3297
27	National Institute of Technical Teacher's Training and Research, Chandigarh	257	139	14	28	971	1943	222	444	444	444	444	1998	3941
28	National Institute of Technical Teacher's Training and Research, Kolkata	54	29	3	6	204	408	47	93	93	93	93	420	828

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SI No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 2 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 2 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Total Recurring	Grand Total of Expenditure (Rs. In lakhs)
								2007-08	2008-09	2009-10	2010-11	2011-12		
29	National Institute of Technical Teacher's Training and Research, Chennai	19	10	1	2	72	144	16	33	33	33	33	148	291
30	National Institute of Foundry & Forge Technology, Ranchi	96	52	5	10	363	726	83	166	166	166	166	746	1472
31	Indian Institute of Information Technology, Allahabad	120	65	6	13	454	907	104	207	207	207	207	933	1840
32	ABV Indian Institute of Information Technology & Management, Gwalior	80	43	4	9	302	605	69	138	138	138	138	622	1227
33	Indian Institute of Information Technology Design & Manufacturing, Jabalpur	30	16	2	3	113	227	26	52	52	52	52	233	460
34	School of Planning & Architecture, New Delhi	140	76	8	15	529	1058	121	242	242	242	242	1089	2147
35	Indian School of Mines, Dhanbad	385	208	21	42	1455	2911	333	665	665	665	665	2994	5904
36	Sant Longowal Institute of Engineering & Technology, Longowal	86	46	5	9	325	650	74	149	149	149	149	669	1319
	Total	9915	5354	654	1308	59658	119315	11062	22123	22123	22123	22123	99555	218870

Institution-wise approved intake, additional increase in intake, additional faculty requirements and estimated recurring and non-recurring expenditure over a 5 year period for implementation of reservation

Programme: A.4 Dual Degree / Integrated M. Tech Programme (5 year duration)

Sl No	Name of Institution	Approved Intake Dual degree	Approved intake Int. M.Tech	Additional dual degree	Additional int. M Tech	Total Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 5 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 5 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Total Recurring	Grand Total of Expenditure (Rs. In lakhs)
											2007-08	2008-09	2009-10	2010-11	2011-12		
1	Indian Institute of Technology, Delhi	100	31	54	17	71	7	35	1061	5306	177	354	531	707	884	2653	7958
2	Indian Institute of Technology, Kanpur	101	0	55	0	55	5	27	818	4091	136	273	409	545	682	2045	6136
3	Indian Institute of Technology, Kharagpur	249	0	134	0	134	13	67	2017	10085	336	672	1008	1345	1681	5042	15127
4	Indian Institute of Technology, Roorkee	43	20	23	11	34	3	17	510	2552	85	170	255	340	425	1276	3827
5	Indian Institute of Technology, Madras	197	30	106	16	123	12	61	1839	9194	306	613	919	1226	1532	4597	13790
6	Indian Institute of Technology, Bombay	228	0	123	0	123	12	62	1847	9234	308	616	923	1231	1539	4617	13851
7	ABV Indian Institute of Information Technology & Management, Gwalior	0	80	0	43	43	4	18	302	1512	69	138	207	276	346	1037	2549
8	Indian School of Mines, Dhanbad	0	160	0	86	86	7	36	605	3024	138	276	415	553	691	2074	5098
Total		918	321	496	173	669	65	324	8999	44996	1556	3112	4668	6224	7780	23340	68336

Institution-wise approved intake, additional increase in intake, additional faculty requirements and estimated recurring and non-recurring expenditure over a 5 year period for implementation of reservation

Programme: A. 5 MBA (2 years duration)

SI No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 2 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 2 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Grand Total of Expenditure (Rs. In lakhs)	
								2007-08	2008-09	2009-10	2010-11	2011-12		Total Recurring
1	Indian Institute of Technology, Delhi	87	47	5	9	705	1409	117	235	235	235	235	1057	2466
2	Indian Institute of Technology, Kanpur	103	56	6	11	834	1669	139	278	278	278	278	1251	2920
3	Indian Institute of Technology, Kharagpur	132	71	7	14	1069	2138	178	356	356	356	356	1604	3742
4	Indian Institute of Technology, Roorkee	62	33	3	7	502	1004	84	167	167	167	167	753	1758
5	Indian Institute of Technology, Madras	50	27	3	5	405	810	68	135	135	135	135	608	1418
6	Indian Institute of Technology, Bombay	82	44	4	9	664	1328	111	221	221	221	221	996	2325
7	Motilal Nehru National Institute of Technology, Allahabad - 211004,	30	16	1	2	113	227	26	52	52	52	52	233	460
8	Maulana Azad National Institute of Technology, Bhopal - 462007, MP	40	22	1	3	151	302	35	69	69	69	69	311	613
9	National Institute of Technology, Durgapur - 713209, WB	60	32	2	4	227	454	52	104	104	104	104	467	920
10	Malaviya National Institute of Technology, Jaipur,-302017,	40	22	1	3	151	302	35	69	69	69	69	311	613
11	National Institute of Technology, Kurukshetra,-136119,,Haryana	60	32	2	4	227	454	52	104	104	104	104	467	920
12	National Institute of Technology, Tiruchirappalli,-620015,,TN	60	32	2	4	227	454	52	104	104	104	104	467	920
13	National Institute of Technology, Warangal,-506004,,AP	40	22	1	3	151	302	35	69	69	69	69	311	613
14	Indian Institute of Information Technology, Allahabad	170	92	6	12	643	1285	147	294	294	294	294	1322	2607
15	ABV Indian Institute of Information Technology & Mgmt, Gwalior	80	43	3	6	302	605	69	138	138	138	138	622	1227
16	Indian School of Mines, Dhanbad	40	22	1	3	151	302	35	69	69	69	69	311	613
Total		1136	613	50	100	6523	13046	1232	2465	2465	2465	2465	11091	24137

Institution-wise approved intake, additional increase in intake, additional faculty requirements and estimated recurring and non-recurring expenditure over a 5 year period for implementation of reservation

Programme: A.6 MCA (3 years duration)

Sl No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 3 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 3 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Total Recurring	Grand Total of Expenditure (Rs. In lakhs)
								2007-08	2008-09	2009-10	2010-11	2011-12		
1	Indian Institute of Technology, Roorkee	31	17	1	3	117	352	27	54	80	80	80	321	673
2	Motilal Nehru National Institute of Technology, Allahabad - 211004, UP	60	32	2	6	227	680	52	104	156	156	156	622	1302
3	Maulana Azad National Institute of Technology, Bhopal - 462007, MP	40	22	1	4	151	454	35	69	104	104	104	415	868
4	National Institute of Technology, Calicut - 673601, Kerala	30	16	1	3	113	340	26	52	78	78	78	311	651
5	National Institute of Technology, Durgapur - 713209, WB	30	16	1	3	113	340	26	52	78	78	78	311	651
6	National Institute of Technology, Jamshedpur, - 831014, Jharkhand	60	32	2	6	227	680	52	104	156	156	156	622	1302
7	National Institute of Technology, Raipur-492010, Chhattishgarh	60	32	2	6	227	680	52	104	156	156	156	622	1302
8	National Institute of Technology, Rourkela, - 769008, Orissa	30	16	1	3	113	340	26	52	78	78	78	311	651
9	National Institute of Technology Karnataka, Surathkal, - 75025, Karnataka	60	32	2	6	227	680	52	104	156	156	156	622	1302
10	National Institute of Technology, Tiruchirappalli, - 620015, TN	60	32	2	6	227	680	52	104	156	156	156	622	1302
11	National Institute of Technology, Warangal, - 506004, AP	30	16	1	3	113	340	26	52	78	78	78	311	651
Total		491	265	18	53	1856	5568	424	848	1273	1273	1273	5091	10659

Institution-wise approved intake, additional increase in intake, additional faculty requirements and estimated recurring and non-recurring expenditure over a 5 year period for implementation of reservation

Programme: A.7 M. Sc / MS (2 years duration)

SI No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 2 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 2 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Total Recurring	Grand Total of Expenditure (Rs. In lakhs)
								2007-08	2008-09	2009-10	2010-11	2011-12		
1	Indian Institute of Technology, Delhi	122	66	7	13	988	1976	165	329	329	329	329	1482	3459
2	Indian Institute of Technology, Kanpur	112	60	6	12	907	1814	151	302	302	302	302	1361	3175
3	Indian Institute of Technology, Guwahati	90	49	5	10	729	1458	122	243	243	243	243	1094	2552
4	Indian Institute of Technology, Kharagpur	181	98	10	20	1466	2932	244	489	489	489	489	2199	5131
5	Indian Institute of Technology, Roorkee	159	86	9	17	1288	2576	215	429	429	429	429	1932	4508
6	Indian Institute of Technology, Madras	105	57	6	11	851	1701	142	284	284	284	284	1276	2977
7	Indian Institute of Technology, Bombay	156	84	8	17	1264	2527	211	421	421	421	421	1895	4423
8	National Institute of Technology, Calicut - 673601, Kerala	30	16	1	2	113	227	26	52	52	52	52	233	460
9	Malaviya National Institute of Technology, Jaipur, - 302017, Rajasthan	60	32	2	4	227	454	52	104	104	104	104	467	920
10	Dr. B R Ambedkar National Institute of Technology, Jalandhar, -144011, Punjab	40	22	1	3	151	302	35	69	69	69	69	311	613
11	National Institute of Technology, Rourkela, - 769008, Orissa	54	29	2	4	204	408	47	93	93	93	93	420	828
12	National Institute of Technology, Tiruchirappalli, - 620015, TN	90	49	3	6	340	680	78	156	156	156	156	700	1380

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SI No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 2 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 2 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Total Recurring	Grand Total of Expenditure (Rs. In lakhs)
								2007-08	2008-09	2009-10	2010-11	2011-12		
13	National Institute of Technology,,Warangal,-506004,,AP	90	49	3	6	340	680	78	156	156	156	156	700	1380
	Total	1289	696	63	126	8868	17737	1563	3126	3126	3126	3126	14069	31806

Institution-wise approved intake, additional increase in intake, additional faculty requirements and estimated recurring and non-recurring expenditure over a 5 year period for implementation of reservation

Programme: A.8 Integrated M. Sc (5 years duration)

SI No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 5 years	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 2 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Grand Total of Expenditure (Rs. In lakhs)	
								2007-08	2008-09	2009-10	2010-11	2011-12		Total Recurring
1	Indian Institute of Technology, Kanpur	97	52	5	26	786	3929	131	262	393	524	655	1964	5893
2	Indian Institute of Technology, Kharagpur	166	90	9	45	1345	6723	224	448	672	896	1121	3362	10085
3	Indian Institute of Technology, Bombay	24	13	1	6	194	972	32	65	97	130	162	486	1458
	Total	287	155	15	77	2325	11624	387	775	1162	1550	1937	5812	17435

Institution-wise approved intake, additional increase in intake, additional faculty requirements and estimated recurring and non-recurring expenditure over a 5 year period for implementation of reservation

Programme: A.9 Others (M.Phil / MMST / LLB)

SI No	Name of Institution	Approved Intake M Phil 2yrs duration	Approved intake MMST / LLB 3 yrs duration	Additional M. Phil	Additional MMST / LLB	Total Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 4 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 5 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Total Recurring	Grand Total of Expenditure (Rs. In lakhs)
											2007-08	2008-09	2009-10	2010-11	2011-12		
1	Indian Institute of Technology, Kharagpur	0	63	0	34	34	5	15	510	1531	85	170	255	255	255	1020	2551
2	Indian Institute of Technology, Bombay	15	0	8	0	8	1	2	122	243	20	41	41	41	41	184	427
		15	63	8	34	42	6	17	632	1774	105	211	296	296	296	1204	2978

Institution-wise approved intake, additional increase in intake, additional faculty requirements and estimated recurring and non-recurring expenditure over a 5 year period for implementation of reservation

Programme: A.10 Ph.D (5 years duration)

Sl No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 5 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 5 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Grand Total of Expenditure (Rs. In lakhs)	
								2007-08	2008-09	2009-10	2010-11	2011-12		Total Recurring
1	Indian Institute of Technology, Delhi	160	86	12	62	1296	6480	216	432	648	864	1080	3240	9720
2	Indian Institute of Technology, Kanpur	300	162	23	116	2430	12150	405	810	1215	1620	2025	6075	18225
3	Indian Institute of Technology, Guwahati	100	54	8	39	810	4050	135	270	405	540	675	2025	6075
4	Indian Institute of Technology, Kharagpur	215	116	17	83	1742	8708	290	581	871	1161	1451	4354	13061
5	Indian Institute of Technology, Roorkee	300	162	23	116	2430	12150	405	810	1215	1620	2025	6075	18225
6	Indian Institute of Technology, Madras	250	135	19	96	2025	10125	338	675	1013	1350	1688	5063	15188
7	Indian Institute of Technology, Bombay	167	90	13	64	1353	6764	225	451	676	902	1127	3382	10145
8	Indian institute of Science, Bangalore	431	233	33	166	3491	17456	582	1164	1746	2327	2909	8728	26183
9	Motilal Nehru National Institute of Technology, Allahabad - 211004, UP	20	11	1	5	76	378	17	35	52	69	86	259	637
10	Maulana Azad National Institute of Technology, Bhopal - 462007, MP	30	16	2	8	113	567	26	52	78	104	130	389	956
11	National Institute of Technology, Calicut - 673601, Kerala	20	11	1	5	76	378	17	35	52	69	86	259	637
12	National Institute of Technology, Durgapur - 713209, WB	20	11	1	5	76	378	17	35	52	69	86	259	637
13	National Institute of Technology, Hamirpur - 177005, HP	20	11	1	5	76	378	17	35	52	69	86	259	637

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SI No	Name of Institution	Approved Intake 2006-07	Additional Intake (54%)	Additional Faculty Requirements each year	Total Additional Faculty Requirements over 5 year	Non-recurring Exp. per year (Rs. In lakhs)	Total Non-recurring Exp. over 5 year (Rs. In lakhs)	Recurring Expenditure (Rs. In lakhs)					Grand Total of Expenditure (Rs. In lakhs)	
								2007-08	2008-09	2009-10	2010-11	2011-12		Total Recurring
14	Malaviya National Institute of Technology, Jaipur, -302017, Rajasthan	30	16	2	8	113	567	26	52	78	104	130	389	956
15	Dr. B R Ambedkar National Institute of Technology, Jalandhar-144011, Punjab	20	11	1	5	76	378	17	35	52	69	86	259	637
16	National Institute of Technology, Jamshedpur-831014, Jharkhand	15	8	1	4	57	284	13	26	39	52	65	194	478
17	National Institute of Technology, Kurukshetra,-136119, Haryana	20	11	1	5	76	378	17	35	52	69	86	259	637
18	Vivesvaraya National Institute of Technology, Nagpur, MS	20	11	1	5	76	378	17	35	52	69	86	259	637
19	National Institute of Technology, Patna - 800005, Bihar	40	22	2	11	151	756	35	69	104	138	173	518	1274
21	National Institute of Technology, Rourkela,-769008, Orissa	30	16	2	8	113	567	26	52	78	104	130	389	956
22	National Institute of Technology, Silchar,-788010, Assam	10	5	1	3	38	189	9	17	26	35	43	130	319
24	Sardar Vallabhbhai National Institute of Technology, Surat-395007, Gujarat	20	11	1	5	76	378	17	35	52	69	86	259	637
25	National Institute of Technology Karnataka, Surathkal- 75025, Karnataka	15	8	1	4	57	284	13	26	39	52	65	194	478
26	National Institute of Technology, Tiruchirappalli,-620015, TN	30	16	2	8	113	567	26	52	78	104	130	389	956
27	National Institute of Technology, Warangal-506004, AP	30	16	2	8	113	567	26	52	78	104	130	389	956
29	National Institute of Technical Teacher's Training and Research, Chandigarh	7	4	0	2	26	132	6	12	18	24	30	91	223
30	Indian Institute of Information Technology, Allahabad	10	5	1	3	38	189	9	17	26	35	43	130	319
Total		2330	1258	170	852	17115	85574	2948	5895	8843	11791	14738	44215	129789

**YEAR-WISE ESTIMATE OF ADDITIONAL RECURRING AND NON-RECURRING EXPENDITURE
FOR 54% INCREASE IN THE INTAKE**

A – IITs / IISc

SI No	Name of Institution	Additional Non-Recurring Expenditure (Rs. In Lakhs)						Additional Recurring Expenditure (Rs. In Lakhs)						Grand Total (Rs. In Lakhs)
		2007-08	2008-09	2009-10	2010-11	2011-12	Total	2007-08	2008-09	2009-10	2010-11	2011-12	Total	
1	Indian Institute of Technology, Delhi	13932	13932	5775	5775	2357	41771	2322	4644	5607	6569	6962	26104	67875
2	Indian Institute of Technology, Kanpur	20096	20096	6926	6926	4034	58078	3349	6699	7853	9007	9680	36588	94666
3	Indian Institute of Technology, Guwahati	6197	6197	3767	3767	810	20738	1034	2066	2693	3321	3456	12570	33308
4	Indian Institute of Technology, Kharagpur	20549	20549	9055	8992	5363	64508	3498	6998	8581	10080	10974	40131	104639
5	Indian Institute of Technology, Roorkee	13741	13741	7536	7419	3353	45790	2299	4595	5858	7094	7653	27499	73289
6	Indian Institute of Technology, Madras	9615	9615	6480	6480	3864	36054	1603	3205	4285	5365	6009	20467	56521
7	Indian Institute of Technology, Bombay	12272	12272	6002	6002	3394	39942	2045	4091	5090	6092	6657	23975	63917
8	Indian Institute of Science, Bangalore	6010	6010	3491	3491	3491	22493	1002	2004	2586	3167	3749	12508	35001
	Total	102412	102412	49032	48852	26666	329374	17152	34302	42553	50695	55140	199842	529216

B – NITs

SI No	Name of Institution	Additional Non- Recurring Grant (Rs. In Lakhs)						Additional Recurring Grant (Rs. In Lakhs)						Grand Total (Rs. In Lakhs)
		2007-08	2008-09	2009-10	2010-11	2011-12	Total	2007-08	2008-09	2009-10	2010-11	2011-12	Total	
1.	Motilal Nehru National Institute of Technology, Allahabad - 211004, UP	3122	3122	2238	2011	76	10569	713	1429	1940	2399	2416	8897	19466
2.	Maulana Azad National Institute of Technology, Bhopal - 462007, MP	3578	3578	2796	2645	264	12861	784	1568	2277	2881	2942	10452	23313
3.	National Institute of Technology, Calicut - 673601, Kerala	2850	2850	1852	1739	189	9480	651	1303	1727	2124	2167	7972	17452
4.	National Institute of Technology, Durgapur - 713209, WB	3421	3194	2400	2287	76	11378	781	1565	2113	2636	2653	9748	21126
5.	National Institute of Technology, Hamirpur - 177005, HP	1701	1701	1323	1323	189	6237	354	709	1012	1314	1357	4746	10983
6.	Malaviya National Institute of Technology, Jaipur-302017, Rajasthan	3356	3356	1889	1889	264	10754	769	1535	1968	2399	2460	9131	19885
7.	Dr. B R Ambedkar National Institute of Technology, Jalandhar,-144011,,Punjab	2396	2396	1701	1701	76	8270	548	1096	1485	1873	1890	6892	15162
8.	National Institute of Technology,,Jamshedpur,-831014,,Jharkhand	1962	1962	1758	1531	57	7270	449	897	1299	1649	1662	5956	13226
9.	National Institute of Technology,,Kurukeshetra,-136119,,Haryana	2684	2684	1777	1777	76	8998	614	1228	1633	2039	2056	7570	16568
10.	Vivesvaraya National Institute of Technology, Nagpur,,,MS	2362	2362	1663	1663	227	8277	540	1081	1461	1840	1892	6814	15091

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SI No	Name of Institution	Additional Non- Recurring Grant (Rs. In Lakhs)						Additional Recurring Grant (Rs. In Lakhs)						Grand Total (Rs. In Lakhs)
		2007-08	2008-09	2009-10	2010-11	2011-12	Total	2007-08	2008-09	2009-10	2010-11	2011-12	Total	
11.	National Institute of Technology,, Patna - 800005, Bihar	2139	2139	1663	1663	302	7906	490	978	1359	1738	1808	6373	14279
12.	National Institute of Technology,, Raipur-492010,,Chhattishgarh	2842	2842	2570	2343	151	10748	650	1392	1980	2515	2550	9087	19835
13.	National Institute of Technology,,Rourkela,-769008,,Orissa	2857	2857	1700	1587	113	9114	654	1306	1695	2058	2084	7797	16911
14.	National Institute of Technology,,Silchar,-788010,,Assam	1784	1784	1172	1172	38	5950	330	659	928	1196	1204	4317	10267
15.	National Institute of Technology,,Srinagar,-190006,,J&K	1380	1380	1380	1380	0	5520	315	631	946	1261	1261	4414	9934
16.	Sardar Vallabhbhai National Institute of Technolog, Surat,-395007,,Gujarat	2684	2684	2004	1777	76	9225	562	1124	1529	1935	1952	7102	16327
17.	National Institute of Technology Karnataka, Surathkal,-575025, Karnataka	3122	3122	2098	1871	57	10270	714	1427	1907	2335	2348	8731	19001
18.	National Institute of Technology,,Tiruchiraplli,-620015,,TN	5613	5613	2778	2551	226	16781	1283	2568	3229	3812	3604	14496	31277
19.	National Institute of Technology,,Warangal,-506004,,AP	3257	3257	1953	1840	113	10420	746	1491	1938	2358	2384	8917	19337
20.	National Institute of Technology, Agartala,-799055,,Tripura	956	956	956	956	0	3824	219	437	656	874	874	3060	6884
TOTAL		54066	53839	37671	35706	2570	183852	12166	24424	33082	41236	41564	152472	336324

C – OTHER CENTRAL TECHNICAL INSTITUTIONS

SI No	Name of Institution	Non-Recurring Expenditure (Rs. In Lakhs)						Recurring Expenditure (Rs. In Lakhs)						Grand Total (Rs. In Lakhs)
		2007-08	2008-09	2009-10	2010-11	2011-12	Total	2007-08	2008-09	2009-10	2010-11	2011-12	Total	
1	National Institute of Technical Teacher's Training and Research, Chandigarh	997	997	26	26	26	2072	228	456	462	468	474	2088	4160
2	National Institute of Technical Teacher's Training and Research, Kolkata	204	204	0	0	0	408	47	93	93	93	93	419	827
3	National Institute of Technical Teacher's Training and Research, Chennai	72	72	0	0	0	144	16	33	33	33	33	148	292
4*	National Institute of Technical Teacher's Training and Research, Bhopal	0	0	0	0	0	0	0	0	0	0	0	0	0
5	National Institute of Foundry & Forge Technology, Ranchi	628	628	265	265	0	1786	143	287	347	408	407	1592	3378
6	Indian Institute of Information Technology, Allahabad	2231	2231	1134	1134	0	6730	510	1019	1279	1538	1538	5884	12614
7	ABV Indian Institute of Information Technology & Management, Gwalior	906	906	302	302	302	2718	207	414	483	552	622	2278	4996
8	Indian Institute of Information Technology Design & Manufacturing, Jabalpur	964	964	851	851	0	3630	220	441	635	830	830	2956	6586
9	School of Planning & Architecture, New Delhi	869	869	340	340	340	2758	199	398	475	553	631	2256	5014
10	Indian School of Mines, Dhanbad	4131	4131	2525	2525	605	13917	945	1888	2466	3043	3181	11523	25440

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SI No	Name of Institution	Non-Recurring Expenditure (Rs. In Lakhs)						Recurring Expenditure (Rs. In Lakhs)						Grand Total (Rs. In Lakhs)
		2007-08	2008-09	2009-10	2010-11	2011-12	Total	2007-08	2008-09	2009-10	2010-11	2011-12	Total	
11	Sant Longowal Institute of Engineering & Technology, Longowal	911	911	586	586	0	2994	208	417	551	685	685	2546	5540
Grand Total		11913	11913	6029	6029	1273	37157	2723	5446	6824	8203	8494	31690	68847

FINAL REPORT OF GROUP FOR TECHNOLOGY/ENGINEERING INSTITUTIONS

In order to implement the reservation detailed discussion were held with Directors / Principals of various Institutions i.e. IITs, IISc, NITs, NITTTRs, IIITs etc. The broad estimates of additional requirements of funds for are given below:

IITs / IISc

Total Approved Intake for the year 2006-07	: 12715
Total present student strength	: 38500
Additional increase in annual intake	: 6866
Total student strength after 5 years	: 60000
Additional non-recurring expenditure spread over 5 years	: Rs. 3294 Crores
Additional recurring expenditure spread over 5 years	: Rs. 1998 Crores
Total	: Rs. 5292 Crores

Estimated total additional faculty requirement spread over 5 yrs : 3200(1050+1000+550+500+100)

NITs

Total Approved Intake for the year 2006-07	: 14053
Total present student strength	: 49185
Additional increase in annual intake	: 7686
Total student strength after 5 years	: 76000
Additional non-recurring expenditure spread over 5 years	: Rs. 1839 Crores
Additional recurring expenditure spread over 5 years	: Rs. 1525 Crores
Total	: Rs. 3364 Crores

Estimated total additional faculty requirement spread over 5 yrs : 2000(600+600+350+350+100)

OTHER CENTRAL GOVT. TECHNICAL EDUCATIONAL INSTITUTIONS

Total Approved Intake for the year 2006-07	: 3162
Total present student strength	: 10000
Additional increase in annual intake	: 1704
Total student strength after 5 years	: 15000
Additional non-recurring expenditure spread over 5 years	: Rs. 372 Crores
Additional recurring expenditure spread over 5 years	: Rs. 317 Crores
Total	: Rs. 689 Crores

Estimated total additional faculty requirement spread over 5 yrs : 500(150+150+80+80+40)