

DEPARTMENT OF SCIENCE & TECHNOLOGY

ANNUAL PLAN 2009-2010

INTRODUCTION

The State has launched a drive to bring about substantial enhancement in access to Technical Education for the students of the State as well as enhancing quality and Standards of Technical Education.

In keeping with the trend and rising demand all over the country and globally, the State is planning to provide suitable avenues for equipping the eligible youth with technical qualification to meet the working needs in the country.

The State Government has an ambitious plan to expand Technical Education Infrastructure particularly of Technical Colleges and Polytechnics, Technical University, Jharkhand Council on Science & Technology, Centers for Advanced Studies in Departments in Universities/Colleges. Efforts are being made to mobilize private sector investment as well as to launch joint venture initiatives and projects based upon the PPP model so that the largest possible number of students from Jharkhand are benefited and have access to the means of Higher education in Science and Technology at reasonable cost and do not have to migrate to other States for the same.

Objectives

- Four Engineering colleges and 11 polytechnics will be setup. Construction work of four Govt. Engineering Colleges i.e. Ramgarh, Dumka, Chaibasa and BIT Mesra Extension Centre, Deoghar and eleven new Govt. Polytechnics i.e. Gola, Pakur, Behragora, Chandil, Garhwa, Jagannathpur, Ranchi, Bhawnathpur,

Hussainabad, Nirsa(Dhanbad) and Silli have started. Also one Management Institute will be setup in Dhanbad in Government Sector.

- Strengthening & Modernization of existing Govt. Engg. Colleges & Polytechnics as well as the State Board of Technical Education and JCST.
 - Through Joint venture, two technical Colleges are being established, namely DAV Engineering College, Mednagar and Vinoba Bhave University College of Engineering & Technology.
 - Construction work of BIT Mesra Extension Centre, Dumka for BBA/BCA/MBA/MCA Programme.
 - Establishment of Technical University in Ranchi.
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- Establishment of eleven new Polytechnics i.e. Sahebganj, Pakur, Deoghar, Lohardaga, Ramgarh, Simdega, Garhwa, Jamtara, Godda, Giridih and Palamu with the help of Central Government.
 - Construction work of two Planetarium i.e. Ranchi and Deoghar, one Fossil Park at Rajmahal (Sahebganj) and Regional Science Centre in Ranchi.
 - Grant-in-aid is being provided to BIT Mesra in respect of 50% seats for Jharkhand State students.
 - Different Science & Technology popularization activities of Jharkhand Council on Science & Technology are being carried out such as Research work, District Science Centre, Scholarship etc.

2. STATE PLAN SCHEME

Continuing Scheme

2.1 Strengthening of the State Board of Technical Education and setting up of the CET Board

With the addition of a large number of Technical Institutions as projected, the need to ensure adequate standards in testing and certification norms would be met through strengthening of the existing State Board of Technical Education. Separate building for SBTE constructed at Namkum, Ranchi.

2.2 Grant-In-Aid to Jharkhand Council on Science & Technology

Jharkhand Council on Science & Technology carries out activities for popularization of Science through various scientific activities in the State. Regional Science Centre started at Ranchi as well as schemes for Scholarship and Research grants taken in consideration.

2.3 Grant-In-Aid/to B.I.T. Mesra and to establish new Technical Institutes in private sector and Universities

In Jharkhand there is great need/demand to setup new Technical Institutions specially in the private sector during the 11th Five year Plan i.e., 2007-2012. Govt. of Jharkhand has targeted to increase the intake of students up to 20,000 by the end of 11th five year plan. To meet this, Govt. has already taken a decision to provide land at nominal price, Connecting Road and electricity facilities to encourage the private sectors to set up new Technical Institutions in the State.

2.4 Establishment of Technical Institution in Joint/Private Sector

In addition to that, in the Joint Sector Vinoba Bhave University and DAV have been taken up in joint ventures with State Govt. to set up Technical Institutions at Hazaribagh and Daltonganj respectively.

BIT Mesra is a reputed Engineering College in the Private Sector. The Govt. is committed to meet the expenditure to the extent of 50% in respect

of admissible DA/ADA and 50% difference of the revised pay scale 50% seats are filled up from eligible students of the State.

2.5 Establishment of Women's Industrial School

To enhance the coverage of existing Women's Industrial Schools, additional six such schools are proposed including Nirsa (Dhanbad) to be set up during the 11th five year plan to provide additional vocational training opportunities. Approximately 4000 Women will be provided skill for self employment.

2.6 Modernization & Strengthening of Government Polytechnics Institutes

To strengthen and modernize all the 13 Government Polytechnics various schemes have been taken up, like upgradation of laboratory and workshop, creation of hostel and classrooms, development of curriculum, consultation with NITTTR and the new curriculum, keeping in view the current needs and aspirations. It is aimed at strengthening and modernizing the Diploma level technical Education at par with national level polytechnic.

2.7 Vocational Training Programme in Polytechnics

Vocational Training programmes are being conducted since last year in all the Govt. Polytechnics. The Annual Plan for 2009-10 envisages an expenditure of Rs. 10.00 Lakhs. The main objective of this scheme is to provide the skills for self employment. At least 2000 students will be enrolled annually.

2.8 Strengthening & Modernization of Engineering Colleges i.e. Ramgarh, Chaibasa and Dumka

To upgrade the BIT Sindri, several programmes have been taken up by providing autonomy, creation of additional infrastructure, induction of new job oriented courses, strengthening of library, workshop etc.

2.9 Establishment of Technical University

Technical University will be set up to monitor, and ensure academic activities of all Government and affiliate colleges. A center of study will be established in the campus, providing degree education in various areas of technology and particularly to promote Technical Education in the State.

2.10 Construction & Renovation of Engineering College/ Polytechnic

In the State of Jharkhand there is a shortage of Technical Institutions. At present there are 13 Government Polytechnics in addition eleven new Polytechnics, being setup in the State under the Govt. sector. Construction works are going on by selected PSU's. In addition to that, the Ministry of Human Resource Development has identified eleven backward districts on the basis of various parameters where new Polytechnics will be set up with non-recurring assistance from the Ministry of Human Resources Development. In addition, the private sector will be encouraged to set up

Polytechnics. Thus it will be ensured that every District is provided at least one Polytechnic by the end of 11th Five Year Plan. Where & when necessary, additional infrastructure will also be provided for the existing Government Polytechnics from the funds under this Budget head.

Construction work of three Engineering Colleges e.g. Ramgarh, Chaibasa & Deoghar and three polytechnics e.g. Silli, Kharshawa & Bhaga are likely to be completed in the financial year 2009-10. Dumka Engineering College and other polytechnics construction works will be started. Chaibasa, Ramgarh, Dumka and Deoghar Engineering Colleges & BIT Mesra

Extension Centre, Dumka and eleven new Polytechnics which have been taken up and construction will be completed during the 11th five year Plan period. It is aimed to increase intake capacity to about 20000 in both degree and diploma level institutions. As per discussion with Planning Commission certain schemes of the Council (JCST) like planetarium at Ranchi, Deoghar & Dhanbad through NCSM, Kolkata and Fossil Park proposed to be shifted under the Technical Education Sector. Also one Management Institute will be setup in Dhanbad in Government Sector. Directorate Building will construct at Namkum, Ranchi.

New Scheme

2.11 Establishment of eleven new Polytechnics with the help of Human Resources Department, Central Government

Establishment of eleven new Polytechnics i.e. Sahebganj, Pakur, Deoghar, Lohardaga, Ramgarh, Simdega, Garhwa, Jamtara, Godda, Giridih and Palamu with the help of Central Government to provide one time financial assistance in non-recurring expenditure per Polytechnic during XIth Plan period. The State Government will bear 100% of recurring expenditure and the balance non-recurring expenditure for the purposed Institutes.

3. EXTERNALLY AIDED PROJECT

3.1 TEQIP (EAP)

To make existing Technical Institutions including Polytechnic Institutions up-to-date and Center of Excellence, projects will be taken up in phase II.

4. TRIBAL SUB PLAN

A sum of **Rs. 2079.70** lakhs has been earmarked for Tribal Sub Plan out of total proposed outlay of **Rs. 8000.00** lakhs during Annual Plan 2009-10.

5. SPECIAL COMPONENT SUB PLAN

A sum of **Rs. 959.40** lakhs has been earmarked for Special Component Sub Plan out of total proposed outlay of **Rs. 8000.00** lakhs during Annual Plan 2009-10.

6. OUTLAY PROPOSED FOR VARIOUS SCHEMES

Science & Technology

Sl. No.	Type of Scheme	Annual Plan (2009-10) (Rs. in lakh)			
		Proposed Outlay	Flow to TSP	Flow to SCSP	Flow to OSP
A.	State Plan Schemes				
	<u>Continuing Schemes</u>				
1	State Board of Technical Education	25.00	6.50	3.00	15.50
2	Jharkhand Council on Science & Technology	150.00	39.00	18.00	93.00
3	Grant in Aid to Non Government Technical Institutions	400.00	104.00	48.00	248.00
4	Establishment of Technical Institution in Joint/Private Sector	400.00	104.00	48.00	248.00
5	Establishment of Women Industrial School	10.00	2.60	1.20	6.20
6	Modernization & Strengthening of Polytechnic Institute	150.00	39.00	18.00	93.00
7	Vocational Training Programme in Polytechnic Institute	10.00	2.60	1.20	6.20
8	Strengthening and Modernization of Engineering College	150.00	39.00	18.00	93.00
9	Establishment of Technical University	200.00	52.00	24.00	124.00
10	Construction and Renovation of Engineering College and Polytechnic Institute.	6005.00	1561.00	720.00	3724.00

B.	Externally Aided Project				
1	Technical Education Quality Improvement Programme (TEQIP)	500.00	130.00	60.00	310.00
	Grand Total	8000.00	2079.70	959.40	4960.90

7. SUMMARY

Sl. No.	Type of Scheme	Annual Plan (2009-10)			
		(Rs. in lakh)			
		Proposed Outlay	Flow to TSP	Flow to SCSP	Flow to OSP
A.	Earmarked	--	--	--	--
B.	State Share (CSS/CS)	--	--	--	--
C.	State Plan Schemes				
	i. Continuing Schemes /	7500.00	1949.70	899.40	4650.90
	New Schemes				
D.	EAP (if any)	500.00	130.00	60.00	310.00
E.	Other	--	--	--	--
	Grand Total	8000.00	2079.70	959.40	4960.90