

SCIENCE & TECHNOLOGY ANNUAL PLAN - 2010 - 2011

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.

Achievement 2009-10

- A new Government Engineering College has been established in joint sector at Deoghar with the help of BIT Mesra.
- New Government Engineering Colleges at Chaibasa, Dumka and Ramgarh are coming up. The progress of construction is at final stage at Chaibasa and Ramgarh. The Construction work of Government Polytechnic Silli, Bhaga and Kharsawan is in final stage.
- In Joint sector a new Engineering College has been established at Daltonganj with help of DAV group. Also University College of Engineering and Technology is operational at Hazaribagh with Vinoba Bhave University.
- From the Academic year 2009-10 BBA & BCA Courses will be started at Dumka with the help of BIT Mesra.
- Construction work of Technical University will be going to be started at Ranchi.
- In Government Sector, seven Polytechnics will be going to be setup at Gola, Pakur, Baharagora, Chandil, Garhwa, Jagarnathpur, & Nirsa. With the help of Ministry of HRD, Government of India, Seventeen new Polytechnics Garhwa, Hazaribagh, Giridih, Deoghar, Godda,

Sahebganj, Pakur, Lohardaga, Gumla West Singhbhum, Chatra, Palamu, Jamtara, Khunti, Ramgarh, Simdega, and Dumka. Central Government will provide Rs. 12.30 Cr. for establishment of each Polytechnic.

- The work of New Institutes building for Government Polytechnic Kharsawah & Bhaga are going on and likely to be complete by the beginning of financial year 2010-11.
- To provide self employment to the rural poor women the new building for Women's Industrial School at Chakradharpur and Gandey are coming up.
- Fossil park will be setup at Rajmahal (Sahebganj)
- Regional Science Centre will be operational at Ranchi from 2010-11.
- Planetarium will be setup at Ranchi & Deoghar.

Objectives

1. Four Engineering colleges and 23 polytechnics will be setup.
 - Govt. of India have approved to setup Seventeen no. of Govt. Polytechnic each at Garhwa, Hazaribagh, Giridih, Deoghar, Godda, Sahebganj, Pakur, Lohardaga, Gumla West Singhbhum, Chatra, Palamu, Jamtara, Khunti, Ramgarh, Simdega, and Dumka.
 - The State govt. has already approved to setup ten no. of Polytechnic each at Silli, Bhaga, Kharsawa, Garwa, Baharagora, Pakur, Gola (Ramgarh) Jagarnathpur (West Singhbhum), Chandil and Nirsa (Dhanbad). This includes the central Government approved Polytechnic at- Garwah, Pakur, Gagannathpur, and Gola. Technical Sanction of all the above except Nirsa (Dhanbad) have been approved by the Chief Engineer, Building Division and the Administrative approval is in the Process of Approval.
 - Construction work for three No. of Polytechnic each at Kharsawah, Silli, and Bhaga is in advance stage of Completion and const. for engineering College at Ramgarh, Chaibasa and Dumka is in Progress.
 - One Management Institute will be setup in Dhanbad in Government Sector.
2. Strengthening & Modernization of existing Govt. Engg. Colleges & Polytechnics as well as the State Board of Technical Education and JCST.
3. Through Joint venture, two technical Colleges are being established, namely DAV Engineering College, Medininagar and Vinoba Bhave University College of Engineering & Technology.
4. Establishment of BIT Mesra Extension Centre, Dumka for BBA/BCA/MBA/MCA Programme has started.

5. Establishment of Technical University in Ranchi.
6. Const. of Directorate & JCECEB building at Namkum, Ranchi.
7. Establishment of Seventeen new Polytechnics Garhwa, Hazaribagh, Giridih, Deoghar, Godda, Sahebganj, Pakur, Lohardaga, Gumla West Singhbhum, Chatra, Palamu, Jamtara, Khunti, Ramgarh, Simdega, and Dumka. with the help of Central Government.
8. Construction work of two Planetarium i.e. Ranchi and Deoghar, one Fossil Park at Rajmahal (Sahebganj) and Regional Science Centre in Ranchi.
9. Grant-in-aid is being provided to BIT Mesra in respect of 50% seats for Jharkhand State students.
10. To increase the capacity in BIT extension centre Deoghar, additional infrastructure will be added.
11. Different Science & Technology popularization activities of Jharkhand Council on Science & Technology are being carried out such as Research work, District Science Centre, Scholarship, seminars and workshops etc.

2. STATE PLAN SCHEME Continuing Scheme

2.1 State Board of Technical Education

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 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 Value Addition and Innovative Technology

Value Addition and Innovative Technology for procurement of Haria, Mahua and Tari will be discovered so that this can be used by SGSY beneficiary.

2.4 Grant-In-Aid to B.I.T. Non-Govt. Technical Education (Estb. Exp.)

BIT Mesra is a reputed Deemed University. 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 as 50% seats are filled up from eligible students of the State as per MOU.

2.5 Grant-In-Aid to establish new Technical Institutions in Private/joint sector

In Jharkhand there is great need/demand to setup new Technical Institutions specially in the Joint/private sector during the 11th Five year Plan i.e., 2007-12. Vinoba Bhave University college of Engineering & Technology is coming up in Joint Ventures with State Govt.

2.6 Establishment of Women's Industrial Schools

To enhance the coverage of existing Women's Industrial Schools, additional 5 such schools are proposed to be set up during the 11th five year plan to provide additional vocational training opportunities. Approximately 1000 Women will be provided skill for self employment.

2.7 Strengthening & Modernization of Polytechnics

To strengthen and modernize all the 13 existing Government Polytechnics various schemes have been taken up, like up gradation of laboratory and workshop, introduction of new curriculum, keeping in view the current needs and aspirations. New Government Polytechnic, Silli will be operational from 2010-11. It is aimed at strengthening and modernizing the Diploma level technical Education at par with national level polytechnic. Semester System has been introduced in all polytechnics.

2.8 Vocational Training Programme in Govt. Polytechnics

Vocational Training programmes are being conducted since last year in all the Govt. Polytechnics. The main objective of this scheme is to provide the skills for self-employment. At least 2600 students will be enrolled annually.

2.9 Strengthening & Modernization of Engineering Colleges

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. New Engineering Colleges at Ramgarh, Chaibasa and Dumka will start very soon.

2.10 Establishment of Technical University

Technical University will be set up to monitor and ensure academic activities of all Government and affiliated 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. The draft of the Act has already been finalized and is in the approval stage.

2.11 Construction & Renovation of Government Engineering College/ Polytechnics

At present there are 13 Government Polytechnics in addition ten new Polytechnics, are to be setup in the State under the Govt. sector ie for (a) Bhaga and Kharsawan (New Campus) (b) Silli, Garhwa, Bahragora, Chandil, Pakur, Jagannathpur Gola and Nirsa. . Construction works at Silli, Bhaga and Kharsawan are at advance stage of Completion. The construction work at Garhwa, Bahragora, Chandil, Pakur, Gagannathpur and Gola is in the process to start. The Technical Sanction has been approved and Administrative approval is awaited. In addition to that, the Ministry of Human Resource Development has identified Seventeen 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 i.e. at Garhwa, Hazaribagh, Giridih, Deoghar, Godda, Sahebgunj, Pakur, Lohardaga, Gumla, West Singhbhum (Jagannathpur), Chatra, Palamu, Jamtara, Khunti, Ramgarh, Simdega, and Dumka. This includes Polytechnic at Garhwa, Pakur, Jagannathpur, and Gola which were decided also under State Government.

Construction work of two Engineering Colleges, Ramgarh and Chaibasa is at advance stage and construction work for Govt. College of Engg. at Dumka will start. BIT Mesra Extension Centre, Dumka will be made operational. Certain schemes of the Council (JCST) like Planetarium at Ranchi & Deoghar and Fossil Park at Rajmahal will be taken.

New Schemes

2.12 Establishment of Seventeen new Polytechnics

Establishment of Seventeen new Polytechnics i.e. at Garwah, Hazaribagh, Giridih, Deoghar, Godda, Sahebgunj, Pakur, Lohardaga, Gumla West Singhbhum, Chatra, Palamu, Jamtara, Khunti, Ramgarh, Simdega, and Dumka with the help of Central Government which will provide one time non-recurring financial assistance i.e. Rs. 12.30 Crore per Polytechnic during XIth Plan period. The State Government will bear 100% cost of recurring expenditure and the balance non-recurring expenditure for the purposed Institutes.

3. EXTERNALLY AIDED PROJECT TEQIP (EAP)

Under TEQIP-II existing Technical Institutions including Polytechnic Institutions in Government as well as in private sector will be taken up make those modern and Centers of Excellence will be established.

4. TRIBAL SUB PLAN

A sum of **Rs. 2080.00** lakhs has been earmarked for Tribal Sub Plan out of total proposed outlay of **Rs. 8000.00** lakhs during Annual Plan 2010-11.

5. SPECIAL COMPONENT SUB PLAN

A sum of **Rs. 960.00** lakhs has been earmarked for Special Component Sub Plan out of total proposed outlay of **Rs. 8000.00** lakhs during Annual Plan 2010-11.

6. OUTLAY PROPOSED FOR VARIOUS SCHEMES (Science & Tech)

Sl. No.	Type of Scheme	Annual Plan 2010-11 (Rs. in lakh)			
		Proposed Outlay	Flow to TSP	Flow to SCSP	Flow to OSP
A.	State Plan Schemes				
	Continuing Schemes				
	Scientific Research				
1	Jharkhand Council on Science & Technology	200.00	52.00	24.00	124.00
	Technical Education				
2	State Board of Technical Education	20.00	5.20	2.40	12.40
3	Grant in Aid to Non Government Technical Institutions	700.00	182.00	84.00	434.00
4	Establishment of Technical Institution in Joint/Private Sector	700.00	182.00	84.00	434.00
5	Establishment of Women Industrial School	50.00	13.00	6.00	31.00
6	Modernization & Strengthening of Polytechnic Institute	250.00	65.00	30.00	155.00
7	Vocational Training Programme in Polytechnic Institute	50.00	13.00	6.00	31.00
8	Strengthening and Modernization of Engineering College	200.00	52.00	24.00	124.00
9	Establishment of Technical University	60.00	15.60	7.20	37.20
10	Construction and Renovation of Engineering College and Polytechnic Institutes.	1000.00	260.00	120.00	620.00
B.	New Schemes				
	Externally Aided Project				

1	Technical Education Quality Improvement Programme (Phase-II)	100.00	26.00	12.00	62.00
2	17 New Polytechnics & Other Construction	4670.00	1214.20	560.40	2895.40
Grand Total		8000.00	2080.00	960.00	4960.00

SUMMARY (Science & Technology)

Sl. No.	Type of Scheme	Annual Plan 2010-11 (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	3230.00	839.80	387.60	2002.60
	ii. New Schemes	4670.00	1214.20	560.40	2895.40
D.	EAP (if any)	100.00	26.00	12.00	62.00
E.	Other	--	--	--	--
Grand Total		8000.00	2080.00	960.00	4960.00