

DETAILED PROJECT REPORT (DPR)

a. Introduction

Since early eighties, due to rapid industrialization and economic growth Engineering and Technical Education in India, have been developing faster than any where else in the world which saw India, the second largest country to produce engineering students in the world. The quality of such students has been tested by the whole industry in the world and the same is on the demand on large scale in near future. The recent Indian scientific, industrial and technological development, particularly in space, nuclear, communication technology, computer engineering and information science have earned India world wide recognition as an emerging global powerSuper Power India.

Technology today is at the center of every development sphere and shall even remain tomorrow. The development and up-gradation in technology requires high quality technical education to produce technically skilled manpower. A technically professional engineer or technician can obviously be created only through quality engineering education with teaching and training. Some of industrially developed states like Maharashtra have experienced private engineering colleges producing phenomenal growth both in numbers of students and quality of students through world class infrastructure and interactive teaching-learning process.

b. Background of the Consultants

We, (Applicant organization) has not appointed any consultant for making this proposal of Detailed Project Report. However, we (the applicant) has prepared the said Detailed Project Report as per the facts available with us.

c. Technical Education & Industry Scenario

The number of engineering colleges offering degree courses in Maharashtra is increasing rapidly to cope with the growing demand for technically skilled people due to rapid industrialization and infrastructure development in the state.

Technical field – engineering – is becoming more important due the high demand of professional. Technology is changing every day, one needs to analyze, do research work on changing technology and find more advanced and sophisticated process which will contribute to social-economic growth of the nation and industry. There is a growing need for experts who have a thorough knowledge in the field of Computer Engineering, Electronics and Telecommunication Engineering which can be achieved by post graduate programs which should be prepared with the view aimed at industry applications. Technology today totally depends on development in R&D sector. R&D can be improvised by creating skilled and practical oriented professionals. And such professionals can be effective only if they themselves have gone through the post graduate program in their respective technical field.

Mumbai, Navi-Mumbai, Thane and Kalyan-Dombivali are among the ten cities from Maharashtra selected for development as smart cities with other cities selected are Pune-Pimpri-Chinchwad, Nashik, Amravati, Solapur, Nagpur, and Aurangabad. US\$1.2 billion allocated for smart cities, US\$83 million allocated for Digital India Initiative, PPP Model to be used to upgrade infrastructure in 500 urban areas, Smart City projects to create 10-15% rise in employment, and Ministry of Urban Development has plans to develop 2 smart cities in each of India's 29 states.

Recently, in Feb 2016, big industrialists like Ratan Tata, Dilip Sanghavi, Gautam Singhanian, Baba Kalyani agreed to invest more than six lacs crores in Maharashtra State in the field of IT, Telecom, Automobile, Chemicals leaving wide scope for the

technical professionals. Sources said more than 28 lacs employees are required in the state itself within near future.

The number of colleges offering technical program (diploma) are very less as to count on fingers in the rural part of Maharashtra. As the technical education program in Maharashtra is gaining momentum; rural part of the state should also be taken into consideration for the same. For future development, private engineering colleges should have come out to develop rural talent and have a set up in the rural part, as 70% population is the rural population. To meet industry need as per Government's plan as above, rural part must be technically educated. Engineering Education in rural area will be a major key to the state's success in developing and generating technical professionals quantitatively as well as qualitatively and to contribute to the socio-economy status of the state.

a. Introduction to its Genesis including its Registration Status.

The Shirpur Education Society, Shirpur was established on 27th October 1979. Registration of the society was done on 24/10/1979 and its reg. no. is E-228 (Dhule) & E-31303 (Mumbai), under Bombay Public Trusts Act, 1950 through Assistant Charity Commissioner, Dhule. The Society, in 2008-2009 was accorded a status with Linguistic Minority (Gujarathi) by the State Govt. of Maharashtra from 2008-2009. The Shirpur Education Society, Shirpur has got state award by the Education Minister, Maharashtra State for the year 2003 for its, commendable contribution in the field of social & education.

The main objective and motive was to spread education with a focus on infrastructure that match global standards by opening pre-primary, primary schools, high-schools, colleges, professional colleges so that every student from the nearby rural area is benefited and is fully educated. Today, the society is been involved in building and sustaining a strong education base in the city of Shirpur (Shirpur Taluka) and the nearby rural area. Its chain of educational services range right from kindergarten to post graduation studies in almost all of possible professional courses. Today, students flock to this chain from the developed cities across the country.

b. Details of its Promoters including their Background

The Shirpur Education Society, Shirpur is developed under the missionary of development, Shri Amrishbhai Patel (presently MLC; President of Shri. Vile Parle Kelvani Mandal, Mumbai; Chancellor, Narsee Monjee Institute of Management Studies, Mumbai; Former Cabinet Minister for School Education, Sports & Youth Welfare) and his family dedicated themselves towards uplifting this small village of

50000 population. Well settled Industrialists in Mumbai, Patel Brothers –Amrishbhai, Late Mukeshbhai and Bhupeshbhai dreamed for setting an ideal example of rural development. They did not wait for opportunities but created them. The development in their views is mental revolution. They related themselves with people of Shirpur through various activities. The bread and butter of the residence came from agriculture and Patel Brothers concentrated towards agriculture development. They broke the chronic water scarcity by bringing water from nearby flowing Tapi river. Water conservation was put in practice when rest of the country was publishing their research papers. Water conservation magically converted this arid region into irrigated and flourishing agriculture. Today, Shirpur Pattern (Water Conservation) under the visionary leader Shri. Amrishbhai Patel is gaining importance rapidly not only in India but abroad also. People started thinking of agriculture beyond bread and butter as a business and changed the crop pattern to cash crops, to textile business. Today, 70% employment (more than 7,000) in Shirpur belongs textile industry. Agro industries were geared up to put handsome money in the hands of farmers. One of the initiative towards this is Priyadarshini Spinning Mill and its correlated processing textile units – dying . weaving, knitting, etc are piled up.

This development both in agriculture, education and industry gave work to the hands. Patel brothers recognized that the key for well cultured and well-mannered and thus over all developed society is education. The real development is development of Human Resource and this can be geared up by education. With a view of providing high caliber education in conducive atmosphere, Shirpur Education Society and R.C. Patel Education Trust came into picture. To nourish the rural talent and to bring them into main stream, education facilities are provided right from the kinder garden to Post Graduation.

The majority of directors of promoting body i. e. The Shirpur Education Society, Shirpur are the family members of trust - Shri. Vile Parle Kelwani Mandal, Mumbai, one of the pioneer institutions in India. The schooling is provided in both the

mediums of English with CBSE and State Board Pattern and Marathi. The traditional courses as Arts, Science and Commerce, D.Ed, B.Ed are provided with at par teaching facilities. The Shirpur Education Society, Shirpur along with R. C. Patel Educational Trust, Shirpur has a network of 78 schools and 14 colleges spread across the tehsil. To provide professional courses and make students industry ready SES and RCPET established R. C. Patel Institute of Technology, R. C. Patel Pharmacy College, H.R. Patel Pharmacy College, R. C. Patel Institute of Management, etc. Today, this umbrella has more than 30,000 students and more than 2,000 employee within its sphere. Within this short span, this Society has created its image as quality education hub. With its quality education and placement engineering and pharmacy colleges are attracting students from all over India. Students from J&K, Assam to South States are flying to Shirpur for getting industry ready. High values imparted into students and willingness for hard work have proved to be resources for companies. With flourished economy and quality basic education, students of Shirpur are making their ways towards foreign universities. The professional courses offered by this Society are Accredited, Re-accredited, some are NAAC accredited, some are accredited by the Industry, some are ISO:9000 certified. Most of them have awarded by the Industry / University with merit rank for their excellent contribution in the field.

The director body of the society is as follows:

1	Amrishbhai Rasiklal Patel	Industrialist/Business
2	Bhupeshbhai Rasiklal Patel	Industrialist/Business
3	Rajgopal Chandulal Bhandari	Industrialist/Business
4	Champalal Bansilal Agrawal	Advocate/Service
5	Babanlal Hiralal Agrawal	Business
6	Prabhakararo Tukaram Chavan	Business
7	Jayashriben Amrishbhai Patel	Housewife
8	Chintanbhai Amrishbhai Patel	Industrialist/Business
9	Tapanbhai Mukeshbhai Patel	Industrialist/Business
10	Hiral Chintanbhai Patel	Housewife
11	Rima Tapanbhai Patel	Housewife
12	Sneha Ankit Parekh	Housewife
13	Disha Jainish Desai	Housewife
14	Harshadbhai Himmatlal Shah	Business
15	Bhupendrabhai Martandrao Patel	Business

c. Activities of the Promoting Body including a listing of major educational promotion activities undertaken till now.

Within a span of 36 years, Shirpur Education Society has grown from a seed to a giant tree. Starting with a small institution in English medium, today it owes nearby 100 various small and big multi disciplinary institutions covering a huge young generation of 30,000 students all around the Shirpur Taluka. The society has built vertical and lateral relationship between staff and students and has made the environment a comfortable place for the learners.

d. Promotion activities undertaken by it in the past.

Major Educational promotion activities undertaken are;

- Pharmacy college offering UG & PG programs with Research Center (2 Colleges)
- Pharmacy college Diploma (2 Colleges)
- Management Institute
- State-of-the-art engineering college offering UG & PG courses with Research Center.
- Military School with CBSE pattern
- English Medium Schools (Nursery to 12th)
- Junior College of Education (D.Ed.)
- College of Education (B.Ed.)
- Women's College for Arts
- Arts, Commerce and Science College (Co-education)
- Urdu Medium School
- Several pre-primary schools, high schools, ashram schools at most of villages of Shirpur Taluka
- Hostels for Boys(2) and girls(5) having capacity 200 each

e. Mission of the Promoting Body

The Shirpur Education Society with its wide array of educational institutions functions with the following mission;

1. To impart primary education to strengthen the educational foundation of pupils in the rural areas within the vicinity of the city.
2. To provide state-of-the-art infrastructural facilities for effective conduction of graduate and post graduate programs.
3. To organize inter-institutional contests and events focusing on all round development of students.
4. To inculcate in students values with social significance.

f. Vision of the Promoting Body

Vision:-

To emerge as a self reliant center for academic excellence of the highest order within the state of Maharashtra and to create skilled human resources on which the nation can bank upon to build potentially domain, be it engineering, pharmacy, management or social science.

11.3.....OBJECTIVE & SCOPE OF THE PROPOSED INSTITUTION

a. Objectives of the Institution

R. C. Patel Polytechnic, Shirpur is established with an objective of providing technical education to the rural candidates & to transform rural population into skilled human resource with modern infrastructure that match global standards.

The further objective of the institution is to enhance the quality of technical education by collaborating with technical universities within the country and abroad, accreditation of the existing courses and ISO-9000 and also to offer courses diploma level in accordance with the contemporary market demands.

To be a pre-eminent Engineering and Technological Institute at par with the best in the world.

To impart high quality Technical Education by:

- Innovative and Interactive learning process and high quality internationally recognized instructional programmes.
- Fostering a scientific temper among students by the means of a liaison with the Academia, Industries and Government for training & employment.
- Preparing students from diverse backgrounds to have aptitude for research and spirit of Professionalism.
- Inculcating in students a respect for fellow human beings and responsibility towards the society.

b. General and Technical Education Scenario of the State:

India has one of the world's largest educated and English speaking pools of graduates and post-graduates, with a variety of technical and non-technical skills. The state of Maharashtra, which is a pioneer in technical education, contributes more than 50% to education achievement. Since the establishment of a School of Engineering in 1854 at Pune, the growth of technical education has been amazing in Maharashtra state. The growth & development of technical education offering diploma courses in Maharashtra is given below;

Sr. No.	Type of Courses	Year	No. of Institutes	Sanctioned Intake
1	Diploma in Engineering & Technology	1978	28	5145
		1988	127	23436
		1995	160	30000
		2000	170	34295
		2005	174	68685
		2010	387	132632
		2015	490	173310

c. Status at Entry Level

Admissions to diploma engineering (Polytechnic) level are determined on the basis of Secondary & Higher Secondary Certificate (ie. 10 or 10+2). Scenario of students in 2015 availability at entry level for Polytechnic admissions in Maharashtra State was as under;

MAHARASHTRA STATE BOARD OF SECONDARY & HIGHER SECONDARY EDUCATION, PUNE
DIVISION AND SEX WISE PERFORMANCE OF CANDIDATES (FRESH)
S.S.C. EXAM OF MARCH 2015

SR	DIVISION	REGISTERED			APPEARED			PASSED		
		MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
1	PUNE	139526	115308	254834	139111	114947	254058	131174	110443	241617
2	NAGPUR	91596	90762	182358	91131	90481	181612	77193	80836	158029
3	AURANGABAD	93433	67999	161432	92922	67697	160619	82900	62572	145472
4	MUMBAI	169331	157721	327052	168886	157389	326275	155216	147883	303099
5	KOLHAPUR	79692	64210	143902	79592	64095	143687	75186	61483	136669
6	AMARAVATI	93040	82282	175322	92728	82042	174770	78576	73190	151766
7	NASIK	107265	85313	192578	106975	85088	192063	97021	79977	176998
8	LATUR	55623	44393	100016	55207	44190	99397	46908	38955	85863
9	KONKAN	20585	19224	39809	20572	19215	39787	19792	18617	38409
OVERALL :		850091	727212	1577303	847124	725144	1572268	763966	673956	1437922

MAHARASHTRA STATE BOARD OF SECONDARY & HIGHER SECONDARY EDUCATION,
STREAMWISE DIVISIONWISE PERFORMANCE OF CANDIDATES (FRESH)
H.S.C. EXAM OF MAR-2015

DIVISION	NO OF CANDIDATES			PASSED PERCENTAGE	
	REGISTERED	APPEARED	PASSED		
SCIENCE	PUNE	85952	85843	82283	95.85
	NAGPUR	57020	56976	55128	96.76
	AURANGABAD	53393	53288	51200	96.08
	MUMBAI	78422	78331	72845	93.00
	KOLHAPUR	46668	46619	45182	96.92
	AMARAVATI	42860	42819	41537	97.01
	NASIK	53448	53404	51269	96.00
	LATUR	30044	29984	28646	95.54
	KONKAN	7735	7731	7453	96.40
OVERALL :	455542	454995	435543	95.72	

Moreover, more than one lac students immigrate into the state of Maharashtra after their HSC certification for their further education. Maximum % of such students has shown interest in the technical education and more in engineering.

d. Status of Technical Level manpower

Demand for polytechnic courses has gone up this year with huge employment opportunities for the students, who completed the technical course. Compared to engineering students, those with polytechnic background are able to secure jobs, as they acquiring technical skills during study.

e. Industrial Scenario of the State

The state of Maharashtra ranks as the country's number one industrialized state, boasting a GDP almost twice the national average and accounts for a lion's share of the country's exports. The government of Maharashtra has undertaken the ambitious project of developing companies from all over the world, seeking to set up their IT or ITES activities in a safe, business-friendly and progressive environment with world-class facilities and infrastructure, with a long term perspective. With the view to becoming the IT center of the world, the government has drawn up a comprehensive and bold IT policy, making it extremely attractive for companies and entrepreneurs to set up house in India with a long term perspective. Maharashtra has always played a leading role in the Indian industrial and economic scenario and has also led the way in the IT revolution sweeping the country.

The following statistics bear testimony to its leadership status in the Indian IT scenario.

- 32% of the internet subscribers in the country are based in Maharashtra
- Maharashtra accounts for 35% of PC penetration in the country
- 20% of software exports of India is from Maharashtra
- 25% of the top 500 software companies in India are based in Maharashtra
- 24% of the ERP market in India is in Maharashtra
- 25% of the LAN/WAN market in India is in Maharashtra
- 169,000 trained technical personnel added to the manpower pool each year.
- 32% of the software professionals in India are from Mumbai and Pune.
- 15 IT parks set up in the state
- More than 5,00,000 trained technical professionals from the state are required by the end of the year 2020.

- Mumbai, Navi-Mumbai, Thane and Kalyan-Dombivali are among the ten cities from Maharashtra selected for development as smart cities with other cities selected are Pune-Pimpri-Chinchwad, Nashik, Amravati, Solapur, Nagpur, and Aurangabad. US\$1.2 billion allocated for smart cities, US\$83 million allocated for Digital India Initiative, PPP Model to be used to upgrade infrastructure in 500 urban areas, Smart City projects to create 10-15% rise in employment, and Ministry of Urban Development has plans to develop 2 smart cities in each of India's 29 states.
- Recently, in Feb 2016, big industrialists like Ratan Tata, Dilip Sanghavi, Gautam Singhania, Baba Kalyani agreed to invest more than six lacs crores in Maharashtra State in the field of IT, Telecomm, Automobile, Chemicals leaving wide scope for the technical professionals. Sources said more than 28 lacs employees are required in the state itself within near future.

Major industries in Maharashtra include chemical and allied products, electrical and non-electrical machinery, textiles, petroleum and allied products. Other important industries include communication and information industry, metal products, pharmaceuticals, engineering goods, machine tools, steel and iron castings and plastic wares. It has initiated measures aimed at attracting private sector to invest in the development of the core engineering sector and IT industry. Automobile and IT sectors have developed and created a world class industrial infrastructure around Pune and Mumbai. The Chemical engineering industries have focused around Raigad District and have created tremendous job opportunities in this district. Various Multinational names have established their organizations at Mumbai. A number of home grown international players like IBM, Satyam, Infosys, Wipro, L&T, Reliance, Jindal Group, Adani Electricals, Tata Power, Finolex, Welcome pharmaceuticals, Bhushan steel, Maharashtra seamless, Sudarshan Chemicals, etc. are a boon to the state. This infrastructural development as well as the Engineering industries requires a large number of technical manpower. There is bound to be a demand for technically qualified personnel in the industrial sector in the near future. With the research ventures growing exponentially it will become easier for the newly set up educational institutions to take up this task of development more easily. Joint efforts can be made with the corporate sector to meet the international benchmarks from the conception stage itself.

Mumbai, the capital of Maharashtra houses the headquarters of almost all major banks, financial institutions, insurance companies and mutual funds. India's largest stock exchange Bombay Stock Exchange, which is the oldest in Asia, is located in the city. After information technology resolutions, Maharashtra has set up software parks in Pune, Nagpur, Mumbai, and Nasik.

f. Scope of the College vis-à-vis the Industrial Scenario and Educational Facilities already available in the State and in the state.

Knowledge and technical skills are the two main driving forces of economic growth of a nation. Countries that have higher levels of skills and education can adjust effectively to the opportunities and challenges in a global environment. The planning commission too has recognized the need to equip the workforce adequately with skills and capabilities consistent with the increasing expectations and demands of the industry. The Eleventh Five Year Plan laid out the framework for a sustainable skills development initiative. The National Skill Development Policy attempted to address the issue of 'inclusive growth'. Under this policy, the government recognized that skill development plays a vital role in making India an economic superpower of the future, and set a target of skill developing in over 500 million people by the year 2022. To complement this target, there has to be creation of adequate employment opportunities in order to enable youth to participate and contribute towards the country's growth. Furthermore, the Twelfth Five Years' Plan sets up the goals of sustainable growth. This also indicates the official acceptance of the fact that skill development is critical for growth as well as for providing employment opportunities to the young. Thus, enhancing the employability through skill enhancement is essential to meet the aspiration of becoming a competitive player in the global economy. State of Maharashtra is known as the state for education, where all kinds of professionals are available. Manpower required for additional intake and new course i.e Assistant Professors, Associate Professors and Professors and Technical Staff can be easily available.

Scope of this institute with respect to the Industrial Scenario and Educational facilities available is broadly described in the following points;

PART A : INTERNAL ANALYSIS

The internal analysis will focus on the institute strengths which creates scope for the institute.

Demographic Features:- Shirpur, a remote Taluka place, is situated on National Highway, Mumbai-Agra (NH-3) near the range of Satpuda Mountains with absolutely pollution and noise free environment (unlike big cities) and an energetic ambience conducive to education & research. The city is on the border of Madhya Pradesh and Gujarat. Shirpur enjoys facilities like good roads, beautiful lightening, auditorium halls, gymkhana, community hall, recreation garden, famous temples, Hospitals etc. The special features of the city are: 24 hours ultra-sonic purified water on tap, no communal disharmony. This was possible under the visionary leadership of Shri. Amrishbhai R. Patel, former cabinet minister for School Education, Sports and Youth Affairs (Maharashtra State) and presently M.L.A of Shirpur. With his vision he founded engineering college - R. C. Patel Polytechnic - offering diploma courses, with all round excellent facilities with modern infrastructure for the students as well as faculty.

Institute Culture:- The institutes under the umbrella of The Shirpur Education Society is known for its amazing synthesis of traditional values and contemporary trends. The inhabitants of the institute are inherently culture and celebrate all the festivals with an equal zeal and fervor. But it is rightly pragmatic and receptive to modern developmental issues. There is literally a visible sense of harmony and brotherhood among the students making it one of the safest places in India especially for woman. No one can get to hear of any communal disharmony or even a petty antisocial activity which are regular occurrences in bigger cities.

World-class Infrastructure:- The institutes are now being counted as a premier technical institute in the North Maharashtra region offering quality value added education to aspiring engineers. The institutes are covered with lush green and beautifully landscaped garden. The institute with its splendid modern construction and infrastructure comprises of several class rooms, tutorial rooms, conference room, administrative hall, state-of-the-art laboratories, digital library, all of which are built in accordance to the norms of AICTE, under the principle 'Quality: No Compromise'.

Faculty Members:- The success of the institute can be largely attributed to the remarkable world class infrastructure and exuberant faculty members who are rich qualified, high in spirits, disciplined and devoted to the core. The institute will have definite teaching policies that are largely practical oriented and student centric. The academic sessions will be quite rigorous and demanding but the faculty team will be committed to tread along with the students round the clock.

The institute will attract strong faculty with respect to qualifications, experiences, industry interactions, student guidance etc. The institute has highly qualified professionals from the reputed institutes like I.I.T.s who are devoted, committed and dedicated to the core. All of the faculty members will posse rich experience in their respective streams and many of them have presented technical papers at National and International levels. The faculty will develop an R&D section with one staff being coordinator for the student as well as for the industry.

Teaching Methodology:- Teachers create the greatest impact on a growing mind and it is the supreme duty of a teacher to instill a sense of security in the students. Students too expect a sense of involvement and not interference from a teacher. The harmony of any institute depends on the extent of sanctity of the student-teacher relation.

Perhaps the most productive and effective method of teaching and monitoring is the one implemented at various institutes of SES, called – Tutor System, wherein, a batch of students are entrusted to a teacher for not just instruction but as much for

care, parenting and counseling. Problems faced by students are thus resolved and at some levels even the head of the department pitches in to help. In addition there are periodical appraisal and evaluation of students and teachers (by the students) reaching the concerned HOD and finally to the Principal for assessment and further course of action.

This methodology ensured the students featured in the University Merit List during each and every academic year. The same structure will be applicable to the proposed polytechnic college.

Institute-Industry Interactions:- Faculty members will have a memorandum of understanding to facilitate and co-ordinate institute-industry interactions. Industries with various tie-ups, will provide certain physical and training facilities to the institute and in return the institute offers continuing education to their working professionals. Industry expert and technical staff will work as a team with the institute's staff and participate in workshops, conferences and short courses. Industry managers, executives who are able to share practical experiences with the students will be invited for the guest lectures. Students' vacations will be effectively utilized by arranging students to work in the industry with small incentives. The staff will be involved in coordinating above interactions with the industry. The involvement of students under the guidance of faculty members for undertaking industry-oriented projects is not useful to the students and academic staff, but also promotes interactive networking between the institute and involved industries. Such involved industries will then participate in campus recruitment programs.

As a result of these efforts made by the faculty members, institute will be busy with the industry interaction by the means of training courses, seminars, conferences, workshops and placements.

The tie-ups with Nersee Munjee Institute of Management Studies (NMIMS) with is headed by the President of the applicant body and the existing technical institutes run by the applicant body will be utilized for the setting-up relationships with the institute with the proposed institute.

Management:-

Few of the characteristics of the management are

- Good Clear policy making with open communication.
- A supportive environment to motivate the employees.
- Have regard for the interests of society in acting loyally and honestly in carrying out the policies of the institution.
- Engage in continued learning to improve quality education and pursue new ideas and advances in technology.
- Always strive hard to update infrastructure with the latest technology.
- Respect the codes of other institutes and associations relevant to their responsibilities.
- Adopts Students and Staff centric practices.
- The appointment, training, and development of employees, seeking to integrate their aspirations with the requirements of the institute.
- The creation of a humane, safe, healthy and satisfying working environment.
- The development of effective communications, understandings and cooperation between all employees at all levels.
- Making every endeavor to conserve the environment, balancing the rights of future generations with current economic needs.
- Preserving and, wherever possible, improving the quality of life within the institute's sphere of influence.
- Promoting the development of further understanding in society of the role and place of the education.
- The exclusion of corrupt practices.
- Respecting cultural and moral standards and the dignity of the individual as well as the community.
- Participating in public affairs, utilizing professional capacity.

Institution / Management Image:-

Packed admission status, Awards from the State Govt./Industry, Industry Tie-Ups, Accreditations and top university rankings are the most authentic indicators that reflect the status of an institution (Society). The education provided by this institutions/society is been always an attraction for the well known dignitaries from Political, Business background, Sportsman. The Management image in the Society is very good.

Competitiveness:-

The institute has competitive advantage over the other institute in following fields; Management, Institute infrastructure, Faculty Members, Institute Culture and Image.

Other Healthy Practices conducted by the institute:-

- Fee concession for meritorious students
- Access to the labs/library for 24 hours
- Periodically development programs in Soft & Technical skills
- Excellent records of University Examinations.
- Career and Placement Assistant
- World-class infrastructure
- Tutor & Local Guardian System
- Periodical & continuous assessment of Students as well as Faculty.
- Industry tie-ups for training & placements.

PART B : EXTERNAL ANALYSIS

The external analysis will focus on the environmental opportunities for the institute.

Scope within affiliating board / North Maharashtra Region:-

There are some polytechnic colleges in the North Maharashtra Region, however they all are failed to provide quality education which saw less admissions in the colleges. Approximately 1500 students pass out their 10th school (SSC) and near about 1000 students pass out their 12th (HSC) from Shirpur Taluka. These will be the targeted enrollments to the proposed polytechnic college. There is no other Polytechnic College in Shirpur Taluka (within 80kms). In past local students travelled to other cities to take diploma education in engineering.

Technical Trends:-

Internationalization has brought about the increasing influence of IT and advanced Communication technologies all over the world. The nation with more informational sources will rank quite highly as regards economic growth. Computers, Mobiles, Tabs, e-commerce and information is at the every center of the technology, demand for the skilled software professionals is gaining importance rapidly thus leaving importance to the technical education system. The quality of the technical education, productivity and competitiveness in the above field can be improved by adopting diploma courses in computer engineering and electronics and communication related engineering. Recently, in Feb 2016, big industrialists like Ratan Tata, Dilip Sanghavi, Gautam Singhania, Baba Kalyani agreed to invest more than six lacs crores in Maharashtra State in the field of IT, Telecomm, Automobile, Chemicals leaving wide scope for the technical professionals. Sources said more than 28 lacs employees are required in the state itself majority will be the technical skilled, within near future.

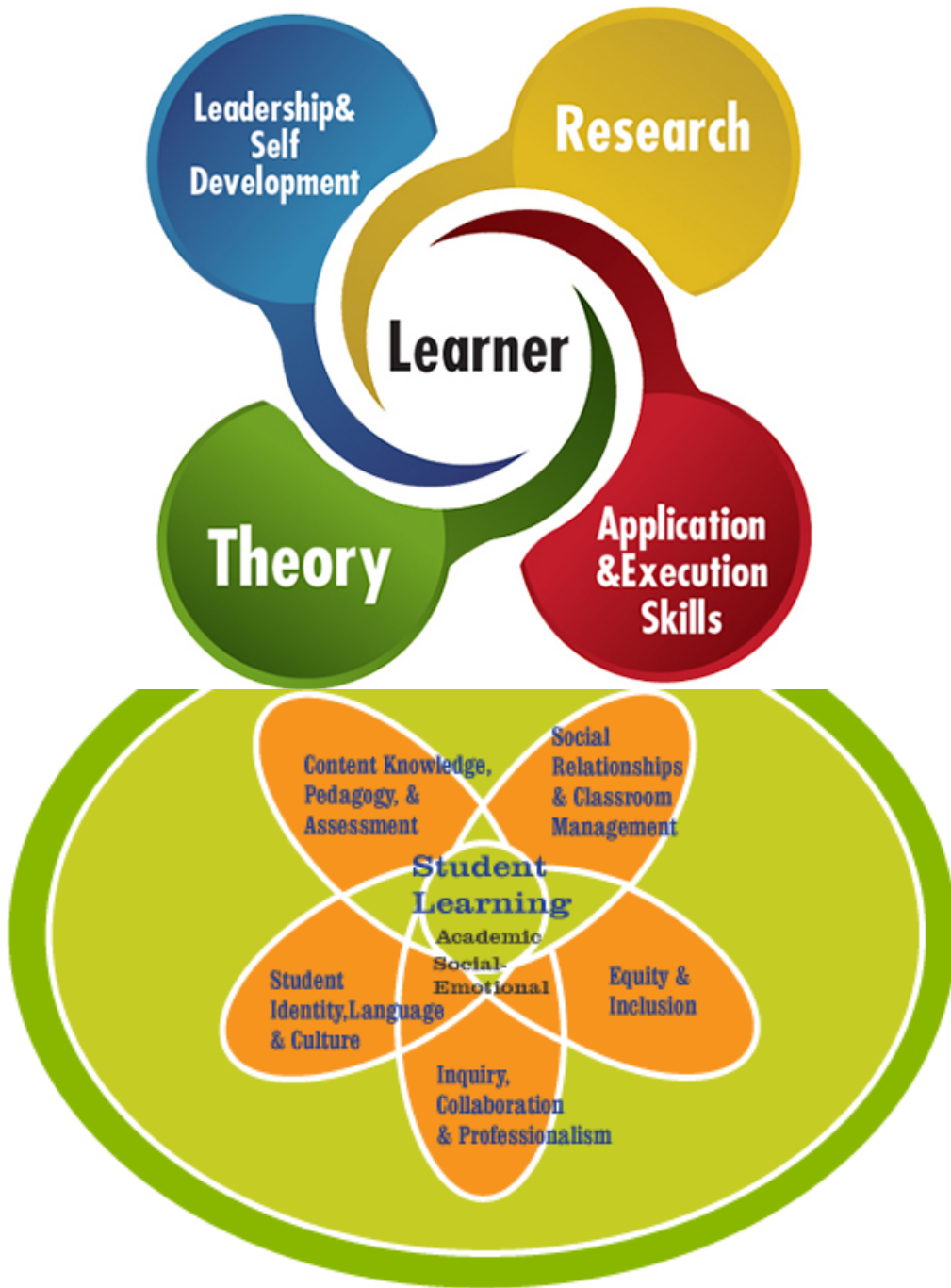
Industry Collaboration:-

The collaboration with the industry will help the institute in following ways;

- To provide research support and cooperative research in the various field.
- To promote academic excellence in the field of engineering and technology education.
- To establish modern facilities and infrastructure for research and development activities.
- To provide excellent linkages with local industries and transfer of technology between institutions and industries.
- Promotion of R&D, linkage with industries, national labs, centers and institutions.
- Rural Development.

a. Basic Academic Philosophy of the Institution

Relations & communication in between teachers and students will be TWO-WAY.



b. Types of Programmes

The institute will runs following diploma courses from 2016-17

(Diploma in Engineering)

Electronics and Telecommunication Engineering:	Intake 60
Computer Engineering	Intake 60
Mechanical Engineering	Intake 60
Civil Engineering	Intake 60
Electrical Engineering	Intake 60

c. Identified Programmes

With the internal and external analysis made, the institute has found demand for diploma courses. So the institute has decided to offer most demanding courses the details of which are;

Electronics and Telecommunication Engineering:	Intake 60
Computer Engineering	Intake 60
Mechanical Engineering	Intake 60
Civil Engineering	Intake 60
Electrical Engineering	Intake 60

d. Phase-wise Introduction of Programmes & Intake

Course	Intake for the year						
	2016-17	2017-18	2018-19	2019-20	2021-22	2022-23	2023-24
Diploma							
Electronics and Telecommunication Engineering	60	60	60	60	60	60	60
Computer Engineering	60	60	60	60	60	60	120
Mechanical Engineering	60	60	60	60	60	120	120
Civil Engineering	60	60	60	60	60	120	120
Electrical Engineering	60	60	60	60	60	60	120

e. Date for Start of Academic Programmes

The date to start the academic program will be as per AICTE handbook process and as per the schedule declared by Directorate of Technical Education, Maharashtra State.

f. Central Computing facility

The institute has a computer center of area 141 sq. mtr. with 50 HP - pcs along with 35 Mbps (1:1) internet connectivity. The center has a server room with 2 Servers. All the networking is certified by the USA based company AVAYA up to 2030. It is also consists of printing & scanning facilities. All required legal system & application software are available. Existing computing facility is satisfactory for the proposed variation in intake and additional new course.

g. Central library

Library is the place where ideas generate and vision broadens. The institute has provision to include mandatory library hours in the time table so that students spend quality time in the company of books and recent technical journals.

The institute's central library covers a ground area of about 522 sq. mtr. with a seating capacity of 80. The interior of the library is well furnished with ergonomically designed seating arrangements. The library is divided into; 150 sq mtr. reading zone , 272 sq. mtr. stacking area and 100 sq. mtr. issuing area. The library is self sufficient to a large extent and covers the courses offered by the institute. Students can also access journals and magazine through the magazine zone available in the library. The library is automated with slim software with NPTL. Reciprocating facility is also made available to the students and faculty members. The library remains open for the entire duration of the college timings and provision is also made for 24 hrs access during University Examinations. The Library is self-sufficient with all the academic requirements and has a sound collection of national/international Journals and Books. Educational CDs and CBTs. Existing facility is satisfactory for the proposed variation in intake and additional new course.

h. Central Workshop

The workshop (Area of 1000 sq.mtr.) provides an opportunity for students to have hands on experience on various machines and get essential basic knowledge of various trades like fitting, carpentry, welding, blacksmithy, tinsmithy, pipe joining and plastic molding. It also includes additional workshop for Electrical, Civil & Mechanical Engineering. Students are also assigned appropriate jobs and evaluated on the completion of their respective jobs.

The modern lathe machines, shaper machine, milling machine, radial drilling machine, surface grinding machine, CNC Lathe machine will be available soon.

Workshop will be equipped with a digital Universal Testing Machine with Computer interface for material testing which is a unique feature.

i. Central Instrumentation Facility

Central Instrumentation facility of the institute includes Over head projectors , LCD, Audi-Video System, CDs and CBTs, teaching aids etc. Existing facility is satisfactory for the proposed variation in intake and additional new course.

j. Affiliating Body

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI. (Autonomous)
Address : 49, Kherwadi, Bandra (E), Mumbai 400 051.
Phone : 2647 7208 / 2647 1255/ 2647 8531 / 2647 8296 / 2647 8795
Fax : 022-26473980

Regional Office: Dy. Secretary, Maharashtra State Board of Technical Education,
Region Office, Osmanapura, Aurangabad-431005
Ph:0240-2331273/ 2334025 Fax: 02240-2349669
Mail: rbteau@msbte.com

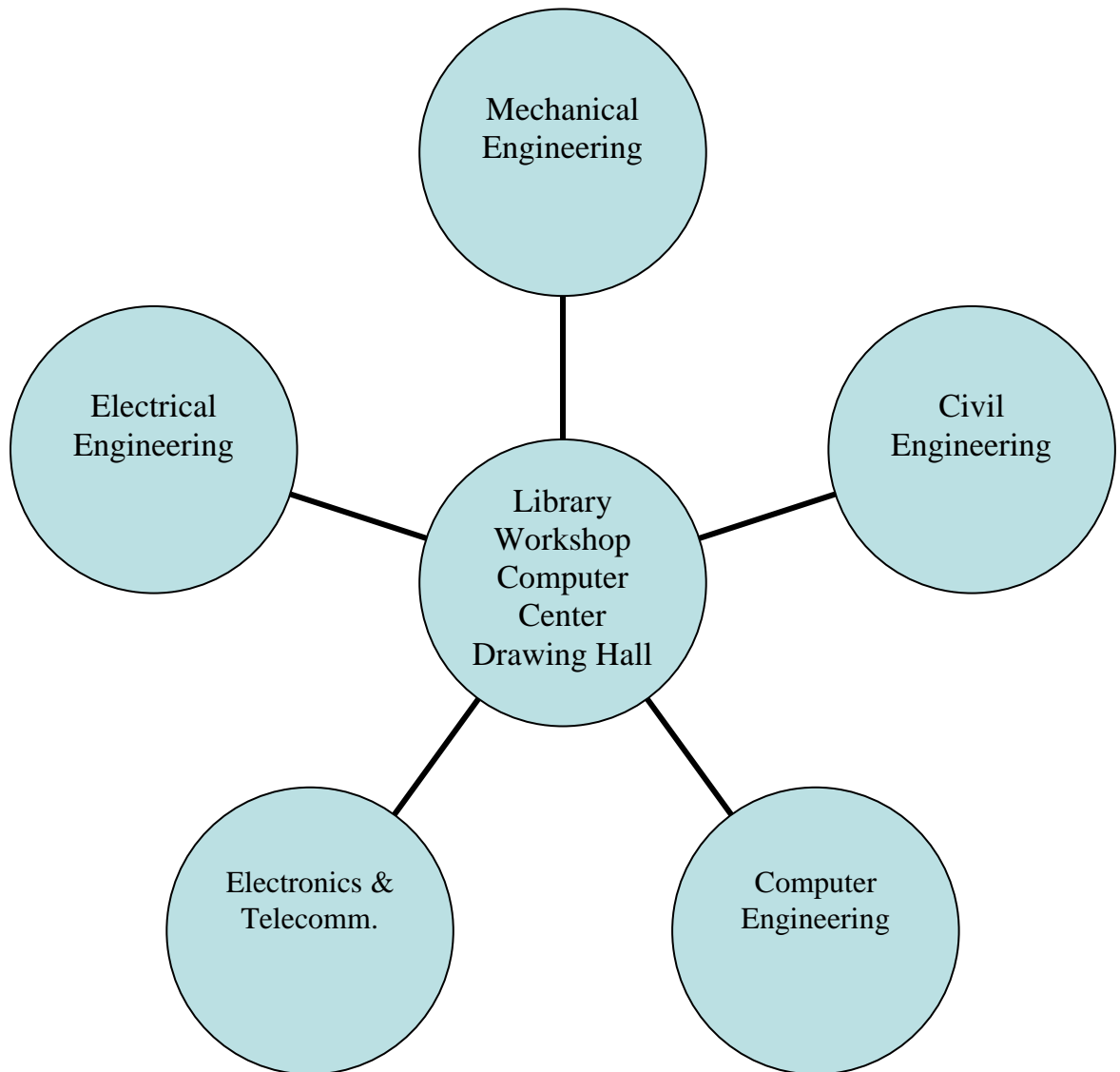
k. Scholarships

- 1) R. C. Patel memorial Scholarships (In addition to Govt. Scholarships). The institute as its best practices offers merit-cum-means scholarship to the students. The recipient is required to pay as per his/her marks obtained at the qualifying examination at the entry level.
- 2) Financial assistance is made available to the student from backward class community (SC, ST, SBC, NT-VJ, OBC) and economical backward classes and fee reimbursement is made as per the rule of State Government. The recipient is exempted from the payment of tuition fee (50% or 100%).
- 3) Financial assistant is also made available to the students of Primary, Secondary and Higher Secondary Teachers.

NOT APPLICABLE

11.6.....SALIENT FEATUES OF ACADEMIC DIVISIONS

- a. **Classification of Academic Divisions i.e. Departments, Centers, Schools, Central Academic Facilities.**



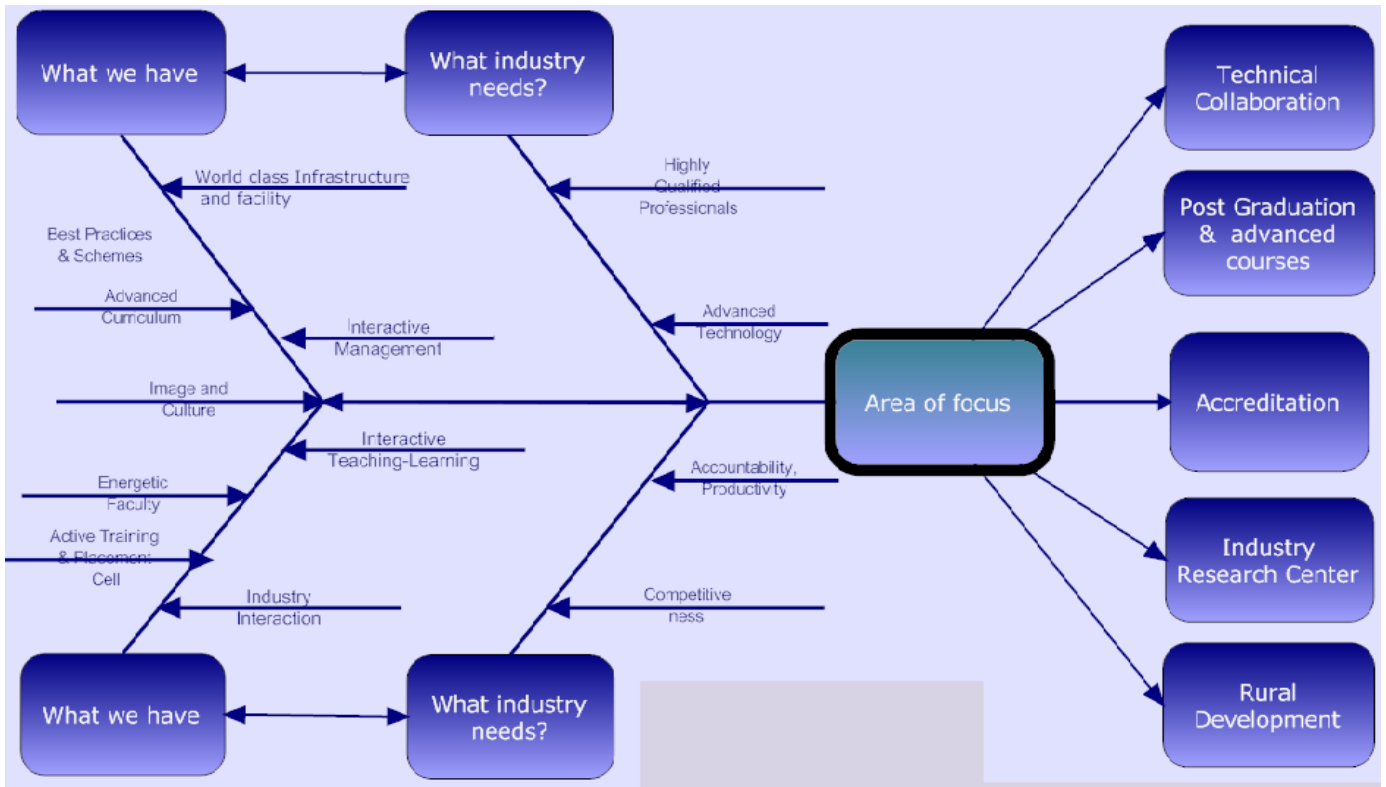
b. Details of each Academic Department / Centre:

- **Academic Objectives**

The main objective of the institution is to enhance the quality of technical education by collaborating with technical universities within the country and abroad, accreditation of the existing courses, NAAC and ISO-9000. To achieve this objective following steps are taken by the institute.

- To modify the institute culture in ways that will allow academia to better support industrial partnerships and better recognize the importance of industry's role in education and research
- To build on existing long-term relationships to form new areas of interaction in education
- To structure industry/academic partnerships to include objectives and deliverables, with financial support
- To exchange technology by strong collaboration with industry with the involvement of faculty in planning and monitoring
- To establish strong college-level advisory boards, allowing industrial input on design, professional practices, etc., to filter down to the departments and into courses.
- To involve faculty and students to participate in strategic planning, benchmarking, and marketing with industrial partners
- To develop curriculum with industrial collaboration so that the industry should know that the faculty is listening
- To involve alumni, technical state board and industry in win/win interactions for good projects.
- To impart interactive teaching-learning process that produces excellent results and performance.
- To recruit, train and retain the brightest and most motivated young & experienced people into and within the engineering profession to fulfill the needs of the economy and society.
- To create mutually beneficial partnerships between industry and education, where the needs of companies and the aspirations of individuals are satisfied.
- To provide comprehensive, value-added education and training opportunities that can be accessed throughout an individual's engineering career.

• **Areas of Focus**





MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

TEACHING AND EXAMINATION SCHEME FOR POST S.S.C. DIPLOMA COURSES

COURSE NAME : MECHANICAL/CHEMICAL/COMPUTER/ELECTRONICS/ELECTRICAL ENGINEERING GROUPS

COURSE CODE : AE/CE/CH/CM/CO/CR/CS/CW/DE/EE/EP/EJ/EN/ET/ EV/EX/IC/IE/IS/ME/MU/PG/PT/ PS /CD/CV/ED/EI/FE/IU/MH/MI/DC/TC/TX

DURATION OF COURSE: 6 SEMESTERS for AE/CE/CH/CM/CO/CR/CS/CW/DE/EE/EP/EJ/EN/ET/ EV/EX/IC/IE/IS/ME/MU/PG/PT/PS/DC/TC/TX

(8 SEMESTERS for CD / CV / ED / EI / FE / IU / MH / MI)

WITH EFFECT FROM 2012 - 13

SEMESTER : FIRST

PATTERN : FULL TIME - SEMESTER

SCHEME : G

DURATION : 16 WEEKS

SCHEME : G

SR. NO	SUBJECT TITLE	Abbreviation	SUB CODE	TEACHING SCHEME		EXAMINATION SCHEME											
				TH	TU	PR	PAPER HRS	TH (1)		PR (4)		OR (8)		TW (9)		SW (17100)	
1	English	ENG	17101	03	--	02	03	100	40	--	--	--	25@	10			
2*	Basic Science	Physics	17102	02	--	02	02	50	40	25@	50	--	--	--			
		Chemistry	17103	02	--	02	02	50	40	25@	50	--	--	--			
3	Basic Mathematics	BMS	17104	04	01	--	03	100	40	--	--	--	--	--			
4	Engineering Graphics	EGG		02	--	04	--	--	--	50#	20	--	50@	20			
5	Computer Fundamentals	CMF		01	--	04	--	--	--	50#*	20	--	25@	10			
		WPC		--	--	04	--	--	--	--	--	--	50@	20			
6	Basic Workshop Practice (Electrical Group)	WPE		--	--	04	--	--	--	--	--	--	50@	20	50		
		WPX		--	--	04	--	--	--	--	--	--	50@	20			
		WPM		--	--	04	--	--	--	--	--	--	50@	20			
		WPI		--	--	04	--	--	--	--	--	--	50@	20			
TOTAL				14	01	18	--	300	--	150	--	150	--	50	--		

Student Contact Hours Per Week: 33 Hrs.

Theory and practical periods of 60 minutes each.

Total Marks : 650

@ Internal Assessment, # External Assessment, #* On Line Examination,

Abbreviations: TH-Theory, TU- Tutorial, PR-Practical, OR-Oral, TW- Term work, SW- Sessional Work

No Theory Examination.

Conduct two class tests each of 25 marks for each theory subject. Sum of the total test marks of all subjects is to be converted out of 50 marks as sessional work (SW).

Progressive evaluation is to be done by subject teacher as per the prevailing curriculum implementation and assessment norms

Code number for TH, PR, OR and TW are to be given as suffix 1, 4, 8, 9 respectively to the subject code as mentioned.

Basic Science is divided into two parts- Basic Physics and Basic Chemistry. Theory examination of both parts as well as practical examination of both parts will be conducted on separate days. Sum of theory marks of both parts shall be considered for passing theory examination of Basic Science. Similarly it is also applicable to practical examination. It is mandatory to appear theory and practical examination of both parts. Remaining absent in any examination of any part will not be declared successful for that examination head.

Candidate remaining absent in examination of any one part of Basic Science subject i.e. Physics, Chemistry will be declare as Absent in Mark List and has to appear for examination. The marks of the part for which candidate was present will not be processed or carried forward.

Academic program	J	F	M	A	M	J	J	A	S	O	N	D
	A	E	A	P	A	U	U	U	E	C	O	E
	N	B	R	L	Y	N	L	G	P	T	V	C
Welcome / Induction Program												
Institute Magazine/Souvenir Publications												
National/International Seminars												
Guest Lectures / Industry Interaction / Experts												
Industrial Visits / Educational Tours												
Sports Activity												
Cultural Activity												
Training Courses												
Farewell Program												
Parents Meet / Interaction												
Local Guardian Counselling Programs												
Programs under dept. associations												
Periodically Assessment												
Annual Award / Rewards												
Social Involvement Programs												
Campus Placements & Higher Study Guidance												
E-mail/SMS communication												
ICT based Teaching – Learning												
News/articles in News (Press Releases)												
Social Media & Web based engines												



- Faculty Requirement & Phase-wise Recruitment**

Year	Addition of Intake for the Program	Additional Intake	Recruitment Plan				Period of recruitment
			Principal	Head of Dept.	Lecturer	Total	
2016-17	First Year Engineering (Common to all branches)	300	1	5	15	21	April 2016
2017-18	Second Year Engineering						April 2017
	Electronics and Tele-Communication	60	0	0	3	3	
	Computer Engineering	60	0	0	3	3	
	Mechanical Engineering	60	0	0	3	3	
	Electrical Engineering	60	0	0	3	3	
2018-19	Third Year Engineering						April 2018
	Electronics and Tele-Communication	60	0	0	3	3	
	Computer Engineering	60	0	0	3	3	
	Mechanical Engineering	60	0	0	3	3	
	Electrical Engineering	60	0	0	3	3	
	Civil Engineering	60	0	0	3	3	

- **Requirement of Laboratories, Space and Equipment (cost)**

Available facility of laboratories, workshop, and library is sufficient for the addition of intake and new course.

Name of the Laboratory	Yearly budget – Equipments	Yearly budget – Consumables	Lab / Major Equipments	Investment till Date
BASIC ELECTRONICS	190,000	15,000	CRO -30 MHz, 3MHz Function Generator, Multiple output power supply, Bench Top Digital Multimeter	183,000
BASIC MECHANICAL LAB	15,000	10,000	Models & Charts	10,000
CHEMISTRY	290,000	12,000	Chemicals and Glass Apparatus	264,000
COMPUTER CENTER	3,700,000	40,000	PC with Software	3,550,000
COMPUTER FUNDAMENTALS	1,500,000	18,000	PC with Software	1,250,000
CONSTRUCTION MATERIAL	22,000	12,000	Universal force table, Simply supported beam apparatus, Friction apparatus	20,000
DRAWING HALL	450,000	5,000	Drawing Board, Models, Charts	443,000
ELEMENTS OF ELECTRONICS ENGINEERING	200,000	12,000	Chemicals and Glass Apparatus	264,000
FUNDAMENTALS OF ELECTRICAL ENGINEERING	200,000	17,000	D. C. Ammeter Range (0-5A) ,D.C. Voltmeter Range (0-150/300V), D.C. Voltmeter Range (0-15/30/75 V),	196,000
MECHANICS	165,035	15,000	Differential axle and wheel, Single purchase crab, Double purchase crab , Weston's differential pull	120,735
PHYSICS	290,000	10,000	"Vernier Caliper Micrometer Screw Gauge Seals Apparatus, Slotted Weight, meter scale, Sprit level M	264,583
WEB PAGE DESIGNING	1,500,000	18,000	PC with Software	1,250,000
WORKSHOP	2,300,000	25,000	Lathe, Grinder, Drilling M/c etc	2,287,000

- Requirement of other Space like Class Rooms, Faculty Rooms & Departmental offices

TOTAL BUILDING				
R.C.PATEL PLOYTECHNIC.SHIRPUR				
STATEMENT SHOWING DETAILS OF AREA				
S.NO.	NAME	LOCATION	AREA (SQM)	AREA (Sq.ft.)
1	Security	Ground floor	10	107.6
2	Principal Office	Ground floor	30	322.8
3	Board Room	Ground floor	22	236.7
4	Office all Inclusive	Ground floor	150	1614.0
5	Pantry FOR Staff	Ground floor	11.28	121.4
6	Laboratory	Ground floor	69.7	750.0
7	Laboratory	Ground floor	69.7	750.0
8	Laboratory	Ground floor	69.7	750.0
9	Laboratory	Ground floor	78.65	846.3
10	Electrical Workshop	Ground floor	203.28	2187.3
11	Civil Workshop	Ground floor	203.28	2187.3
12	Central Store	Ground floor	34.15	367.5
13	Laboratory	Ground floor	69.7	750.0
14	Laboratory	Ground floor	69.7	750.0
15	Laboratory	Ground floor	69.7	750.0
16	Cafeteria	Ground floor	213.28	2294.9
17	Stationery store and Reprography	Ground floor	22.85	245.9
18	First Aid cum Sick room	Ground floor	12	129.1
19	Mech Workshop	Ground floor	203.28	2187.3
20	Workshop First year	Ground floor	203.28	2187.3
21	Laboratory	Ground floor	73.65	792.5
22	Faculty Seating 1 to 2	Ground floor	10	107.6
23	Faculty Seating 3 to 4	Ground floor	10	107.6
24	Faculty Seating 5 to 6	Ground floor	10	107.6
25	Faculty Seating 7 to 8	Ground floor	10	107.6
26	Faculty Seating 9 to 11	Ground floor	15	161.4
27	Faculty Seating 12-13	Ground floor	10	107.6
28	Ladies Toilet	Ground floor	37.15	399.7
29	Ladies Toilet	Ground floor	57.8	621.9
30	Gents Toilet	Ground floor	57.8	621.9
31	Gents Toilet	Ground floor	37.15	399.7
32	Computer Departement Office	First floor	20.32	218.6
33	Computer Head of Departement	First floor	13.95	150.1
34	Electrical Departement Office	First floor	20.32	218.6
35	Electrical Head of Departement	First floor	13.95	150.1
36	Laboratory	First floor	69.7	750.0
37	Laboratory	First floor	69.7	750.0
38	Computer center	First floor	136.5	1468.7
39	Faculty seating 41	First floor	5	53.8
40	Faculty Seating 14 to 19	First floor	30	322.8
41	Tutorial Room - 1	First floor	34.15	367.5
42	Language lab	First floor	73.65	792.5
43	Faculty Seating 20 to 21	First floor	10	107.6
44	Class Room-1	First floor	69.7	750.0
45	Class Room-2	First floor	69.7	750.0
46	Class Room-3	First floor	69.7	750.0
47	Class Room-4	First floor	69.7	750.0



J. B. Jholapara

S.NO.	NAME	LOCATION	AREA (SQM)	AREA (Sq.ft.)
48	Class Room-5	First floor	69.7	750.0
49	Examination, Control Office	First floor	34.15	367.5
50	E&TC Department Office	First floor	20.32	218.6
51	E&TC Head of Department	First floor	13.95	150.1
52	Maintenance	First floor	12.64	136.0
53	House Keeping	First floor	12.64	136.0
54	Girls Common Room	First floor	78.41	843.7
55	Laboratory	First floor	69.7	750.0
56	Laboratory	First floor	69.7	750.0
57	Placement Office	First floor	34.85	375.0
58	Tutorial Room - 2	First floor	34.15	367.5
59	Laboratory	First floor	69.7	750.0
60	Boys Common Room	First floor	78.41	843.7
61	Faculty Seating 22 to 26	First floor	25	269.0
62	Civil Department Office	First floor	20.32	218.6
63	Civil Head of Department	First floor	13.95	150.1
64	Mech Department Office	First floor	20.32	218.6
65	Mechanical Head of Department	First floor	13.95	150.1
66	Laboratory	First floor	69.7	750.0
67	Laboratory	First floor	69.7	750.0
68	Laboratory	First floor	69.7	750.0
69	Laboratory	First floor	69.7	750.0
70	Laboratory	First floor	69.7	750.0
71	Faculty Seating 27 to 34	First floor	40	430.4
72	Faculty Seating 35 to 42	First floor	40	430.4
73	Ladies Toilet	First floor	37.15	399.7
74	Ladies Toilet	First floor	57.8	621.9
75	Gents Toilet	First floor	57.8	621.9
76	Gents Toilet	First floor	37.15	399.7
77	Class Room-11	Second floor	69.7	750.0
78	Class Room-12	Second floor	69.7	750.0
79	Class Room-13	Second floor	69.7	750.0
80	Class Room-14	Second floor	69.7	750.0
81	Class Room-15	Second floor	69.7	750.0
82	Laboratory	Second floor	69.7	750.0
83	Laboratory	Second floor	69.7	750.0
84	Faculty room 43 to 45	Second floor	15	161.4
85	Laboratory	Second floor	68.65	738.7
86	Library & Reading Room	Second floor	322.72	3472.5
87	Faculty room 46 to 51	Second floor	30	322.8
88	Laboratory	Second floor	68.68	739.0
89	Faculty room 52 to 54	Second floor	15	161.4
90	Faculty room 55	Second floor	5	53.8
91	Class Room-6	Second floor	69.7	750.0
92	Class Room-7	Second floor	69.7	750.0
93	Class Room-8	Second floor	69.7	750.0
94	Class Room-9	Second floor	69.7	750.0
95	Class Room-10	Second floor	69.7	750.0
96	Drawing Hall	Second floor	136.5	1468.7
97	Tutorial - 3	Second floor	34.85	375.0
98	Laboratory	Second floor	69.7	750.0



J. P. Jholapara

J. P. JHOLAPARA
Registration No. CA/91/13802

S.NO.	NAME	LOCATION	AREA (SQM)	AREA (Sq.ft.)
99	Seminar Hall	Second floor	141.5	1522.5
100	Laboratory	Second floor	69.7	750.0
101	Laboratory	Second floor	69.7	750.0
102	Laboratory	Second floor	69.7	750.0
103	Faculty Seating 56 to 60	Second floor	25	269.0
104	Ladies Toilet	Second floor	57.8	621.9
105	Ladies Toilet	Second floor	37.15	399.7
106	Gents Toilet	Second floor	57.8	621.9
107	Gents Toilet	Second floor	37.15	399.7



J. P. Jholapara

J. P. JHOLAPARA
Registration No. CA/91/13802

11.7.....QUALITY AND HUMAN RESOURCE DEVELOPMENT

a. Academic Values

1) **Honesty** begins with oneself and extends to others. In the quest for knowledge, students and faculty are honest with themselves and with each other whether in the classroom, laboratory or library or on the playing field. Cultivating honesty in the institute has laid the foundation for lifelong integrity, developing in each of member the courage and insight to make difficult choices and accept responsibility for actions and their consequences, even at personal cost.

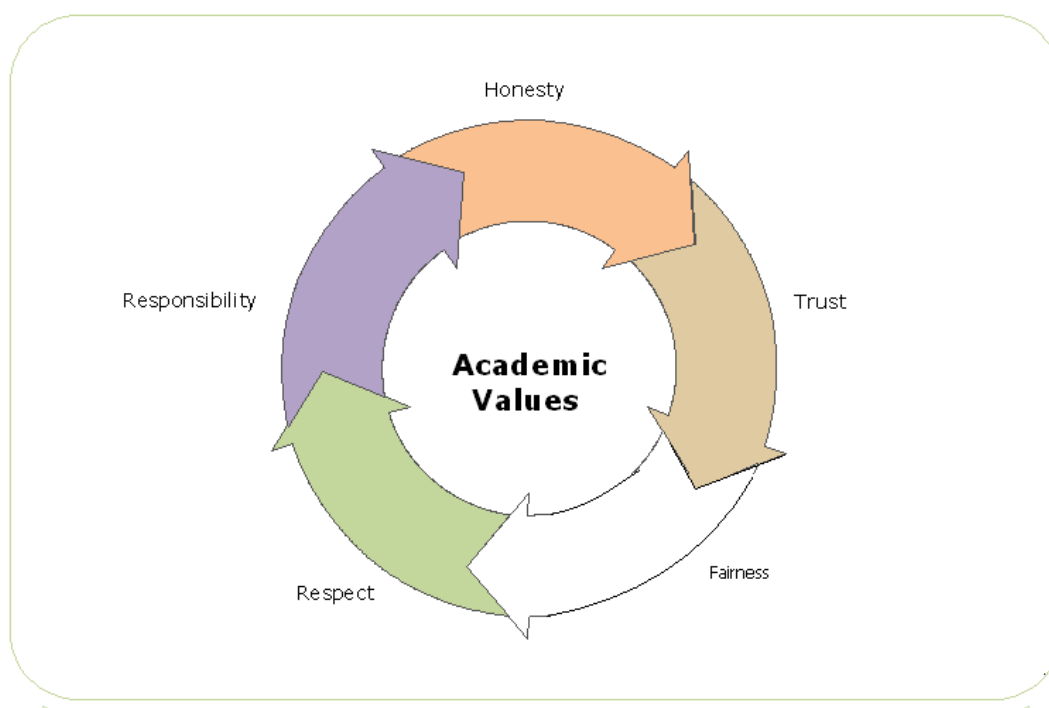
2) **Trust:** People respond to consistent honesty with trust. Trust is also promoted by faculty who set clear guidelines for assignments and for evaluating student work; by students who prepare work that is honest and thoughtful; and by the institute that set clear and consistent academic standards and that support honest and impartial research. Only with trust we believe in the research of others and move forward with new work. Only with trust we collaborate with individuals, sharing information and ideas without fear that our work will be stolen, our careers stunted, or our reputations diminished. Only with trust our communities believe in the social value and meaning of an institution's scholarship and degrees.

3) **Fairness:** Fair and accurate evaluation is essential in the educational process. For students, important components of fairness are predictability, clear expectations, and a consistent and just response to dishonesty. Faculty members also have a right to expect fair treatment, not only from students but also from colleagues and their administration. All campus constituencies have a role in ensuring fairness, and a lapse by one member of the community does not excuse misconduct by another. Rationalizations such as "everyone does it" or "the curve was too high" do not justify or excuse dishonesty.

4) **Respect:** To be most rewarding, teaching and learning demand active engagement and mutual respect. Students and faculty have a respect for themselves and each other as individuals, not just as a means to an end. They also respect themselves and each other for extending their boundaries of knowledge, testing new skills, building upon success, and learning from failure. Students show respect by attending class, being on time, paying attention, listening to other points of view, being prepared and contributing to discussions, meeting academic deadlines, and performing to the best of their ability. Being rude, demeaning, or disruptive is the antithesis of respectful conduct. Members of the faculty show respect by taking students' ideas seriously, providing full and honest feedback on their work, valuing their aspirations and goals, and recognizing them as individuals. All show respect for

the work of others by acknowledging their intellectual debts through proper identification of sources. Once again, the interdependence of the values that constitute academic integrity becomes apparent. Part of respecting people involves fair and honest treatment, and all of this supports an environment of trust.

5) **Responsibility:** Every member of an academic community of the institute — each student, faculty member and administrator — is responsible for upholding the integrity of scholarship and research. Shared responsibility is distributed the power to effect change, helps overcome apathy and stimulates personal investment in upholding academic integrity standards. Being responsible the institute’s member is taking action against wrongdoing, despite peer pressure, fear, loyalty, or compassion. At a minimum, individuals are taking responsibility for their own honesty and are discouraging and seeking to prevent misconduct by others. This may be as simple as covering one’s own answers during a test or as difficult as reporting a friend for cheating, as required by some honor codes. Whatever the circumstances, members of institute do not tolerate or ignore dishonesty on the part of others.



b. Recruitment, Strategies for Attracting and Retention of Faculty Personnel for Excellence, Promotional Avenues, Career Ladder

Recruitment:- Recruitment of faculty members for the proposed program will start with inviting applications of the eligible candidates through publication of advertisement in leading newspapers at National & State Level. The qualification/experience for the eligible candidates will be as per the norms of AICTE, New Delhi, State Government and Maharashtra State Board of Technical Education,

Mumbai. The eligible candidates will be then invited for Written Test, Interview in presence of the Selection Panel. The eligible candidates will be appointed on the various posts as selected by the Selection panel.

Strategies to attract and retain personnel for excellence:-

Attractive Pay Scale: - The faculty appointed for the proposed program will be given scale as per the norms of AICTE, New Delhi and State Government.

Staff Quarters:- The institute's society has developed a colony for its faculty members where the faculty members will have a accommodation at reasonable rate.

Health Club Membership and Recreation:- The institute's faculty members can avail a life-long membership for Health Club and Recreation Garden.

Counselling, Social Support and Family Care:- Institute's counselling centre is always in touch with the faculty for their problems and family care.

Granting Personal PC for academic use:- Institute has issued one personal PC for each faculty for their academic and personal use with internet connectivity.

Sponsoring Seminar, Workshop and Conferences:- Institute sponsors faculty for nation/international conferences, workshop with all the expenses for their development.

Insurance and Medical Facility:- Doctor periodically visits and conducts a personal check-up for the faculty.

Promotions and Increment in pay scales:- Faculty's excellence in the academics is rewarded by their promotions and annual increment.

Remunerations: Institute offers attractive remunerations to the faculty in case of their work support for the University Examinations, Admission Procedure etc.

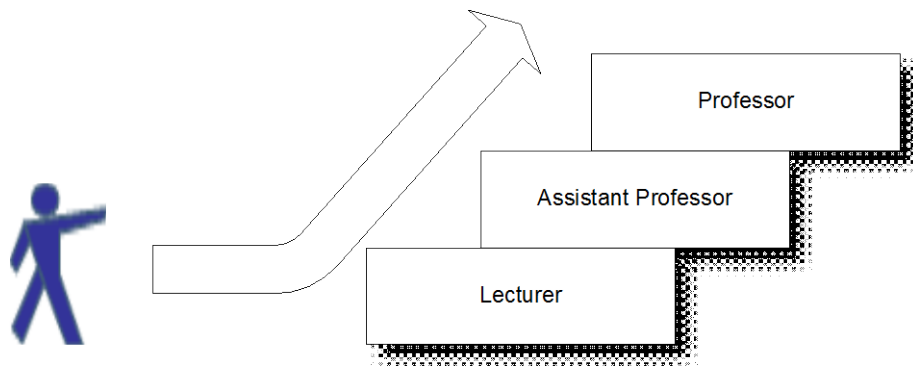
Granting leaves/vacations:- Institute is bound to grant all types of leaves that are stated by the Central/State Government/University. Institute also offers Study leave to the faculty members for acquiring their higher qualification.

Promotional Avenues

- 1) Lecturer (Senior Scale) :- A lecturer with minimum ME/M. Tech. qualification.
- 2) Assistant Professor:- A lecturer with Ph.D. qualification and 3 yrs of service as a lecturer will be eligible for the post of Assistant Professor.
- 3) Professor:- An Assistant Professor with min. 8 yrs of service will be considered for the appointment as a Professor.

For every upward movement, selection process will be as per the norms of AICTE/State Government/University.

Career Ladder



c. Policies for Teaching and Non-teaching Staff Development

Evaluation and Recognition:- An open, transparent and objective performance appraisal comprising self-appraisal and appraisal by student/superior/sub-ordinate with peer evaluation is implemented so that the teaching/non-teaching staff is evaluated for their increment/promotion/rewards and suggestions are given. Good suggestions are implemented.

Integration and Communication:- All policies and procedures regarding management / academics are communicated to everyone so that they can plan, frame and manage the work.

Training and Development program:- Every faculty goes under training by Mission 10X, Wipro Teacher's Training once in a year. Other than these courses on language, career, and personal development also are conducted.

Encouragement for higher qualifications or advanced courses:- Faculty is encouraged for higher qualification by granting them study leave and allowing them to use academic resources of the institute.

Awards and Rewards:- Faculty members are rewarded for their achievements in the academics and social involvements.

d. Permanent and Contract Services for Teaching, Non-teaching and other Support Personnel

Nil

e. Total Quality Management

Quality is not a one time activity. It is rather a continuous improvement process. Introducing a quality system may not be a tough task as much as it is to maintain it. Maintaining the standards that have been set, especially in this competitive era, always requires tremendous amount of commitment, meticulous planning and a good investment in terms of time, effort and money.

The obvious benefits of implementing a quality systems is as follows

- Improved efficiency and increased effectiveness
- Growth of the organization as a brand
- Customer satisfaction(Students as well as the industry who recruits them)
- Staff Development

The institute has applied the concept of TQM to academic programs. Following are the principles that hold key for its successful implementation.

Synergistic Relationships:- The institute focuses first and foremost on its students and faculty members where the institute allocates systematic nature of the work in which all are involved. In other words, teamwork and collaboration are essential parts of the institute's TQM program. Traditionally, education has been prone to individual and departmental isolation. "When I close the classroom door, those kids are mine!" is a notion of the institute's faculty members too narrow to survive in a world in which teamwork and collaboration result in high-quality benefits. The very application of the first pillar of institute's TQM emphasizes the synergistic relationship between the "students" and "faculty members". The concept of synergy suggests that performance and production is enhanced by pooling the talent and experience of individuals. In a classroom, teacher-student teams with their successful work together results in the development of the student's capabilities, interests, and character. In one sense, the student is the teacher's customer, as the recipient of educational services provided for the student's growth and improvement. Viewed in this way, the teacher and the school are suppliers of effective learning tools, environments, and systems to the student, who is the school's primary customer. The institute is responsible for providing for the long-term educational welfare of students by teaching them how to learn and communicate in high-quality ways, how to implement quality in their own work and in that of others and how to invest in their own lifelong and life-wide learning processes by maximizing opportunities for growth in every aspect of daily life. In another sense, the student is also a worker, whose product is essentially his or her own continuous improvement and personal growth.

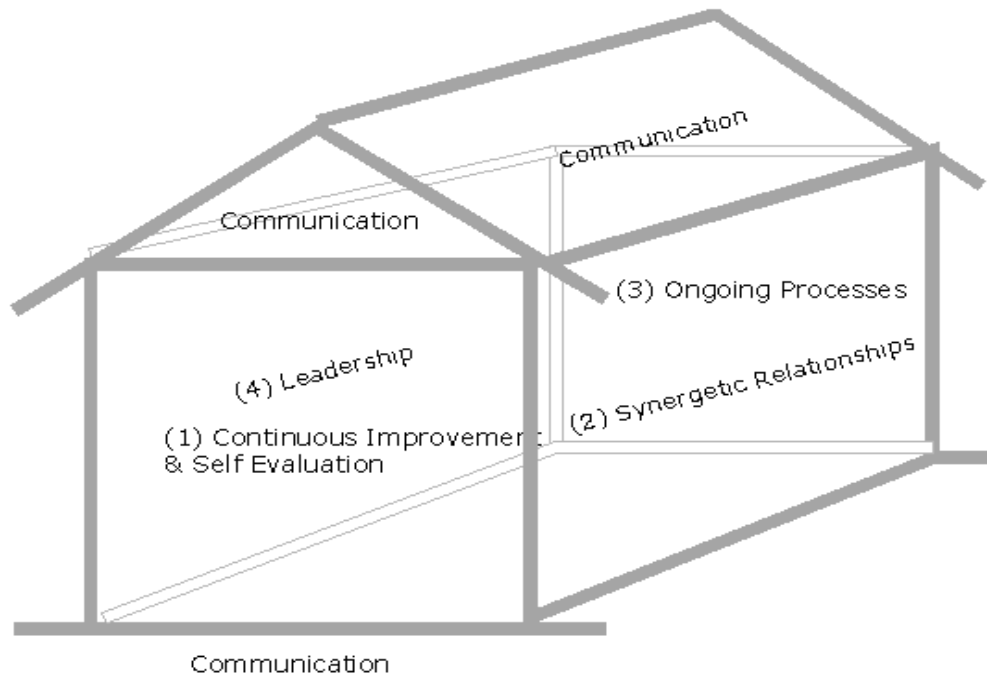
Continuous Improvement and Self Evaluation:- The second pillar of institute's TQM program is the total dedication to continuous improvement, personally and collectively. Within a Total Quality setting, administrators work collaboratively with

the teachers through a administrative software through which student's academic performance like his/her attendance, participation in the competition, payment of fees, health problems, performance in a tutorials etc can be analyzed and the scope for the improvement can be found out by the local guardian allocated to the group of students. Institute's faculty recognizes today's need to encourage everyone's potential by dedicating themselves to the continual improvement of their own abilities and those of the students and colleagues with whom they work and live. Total Quality is, essentially, a win-win approach which works to students and faculty members' ultimate advantage. Institute's TQM emphasizes self-evaluation as part of a continuous improvement process. In addition, this principle also laminates to the focusing on students' strengths, individual learning styles and different types of intelligences.

A System of Ongoing Process:- The third pillar of the institute's TQM is the recognition of the institute as a system and the work done within the institute is seen as an ongoing process. The primary implication of this principle is that individual students and teachers are less to blame for failure than the system in which they work. Quality speaks to working on the system, so it is examined to identify and eliminate the flawed processes that allow its participants to fail. Since systems are made up of processes, the improvements made in the quality of those processes largely determine the quality of the resulting product. In the new paradigm of learning, continual improvement of learning processes based on learning outcomes replaces the outdated "teach and test" mode.

Leadership:- The fourth TQM principle applied is that the success of institutes TQM is the responsibility of top management. The management of the institute is involved throughout institute's continuous improvement program that results from teachers and students working together. The management with their visionary leadership has provided world-class infrastructure and facility that result in continuous improvement

TQM : as a Home



TQM principles help the institute in following ways:

- (a). Redefine the role, purpose and responsibilities of students and faculty members.
- (b). Improve culture of the institute as a "way of life."
- (c). Plan comprehensive leadership training for faculty and students at all levels.
- (d). Create staff development that addresses the attitudes and beliefs of staff.
- (e). Use of research and practice-based information to guide both policy and practice.

In addition to patience, participatory management, the success key of the institute's TQM is that everyone who is involved understands and believes in principles of TQM. Their vision and skills in leadership, management, interpersonal communication, problem solving and creative cooperation are important qualities for successful implementation of TQM in the institute.

f. Overall Teaching and Non-teaching Staff Requirements

Teaching Staff

Year	Addition of Intake for the Program	Additional Intake	Recruitment Plan				Period of recruitment
			Principal	Head of Dept.	Lecturer	Total	
2016-17	First Year Engineering (Common to all branches)	300	1	5	15	21	April 2016
2017-18	Second Year Engineering						April 2017
	Electronics and Tele-Communication	60	0	0	3	3	
	Computer Engineering	60	0	0	3	3	
	Mechanical Engineering	60	0	0	3	3	
	Electrical Engineering	60	0	0	3	3	
	Civil Engineering	60	0	0	3	3	
2018-19	Third Year Engineering						April 2018
	Electronics and Tele-Communication	60	0	0	3	3	
	Computer Engineering	60	0	0	3	3	
	Mechanical Engineering	60	0	0	3	3	
	Electrical Engineering	60	0	0	3	3	
	Civil Engineering	60	0	0	3	3	

Non-Teaching Staff

Name of Post	No. of Post to be Recruited	Time frame for recruitment
Registrar	01	June 2016
Accounts Officer	01	June 2016
Estate Manager	01	June 2016
Accountant	01	June 2016
Clerks	06	June 2016
Drivers	01	June 2016
Watchman	02	June 2016
Peon	12	June 2016

a. Introduction

When it comes to software engineering and communication engineering education, there is a gap between what industry needs and what state board offers. To close this gap, the institute proposes a comprehensive collaboration between academic software engineering programs and industry.











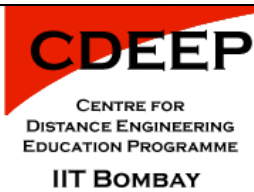
The collaboration is fruitful as it focuses following area;

- The opportunity to grow and hone the creative energies of the best professionals in an imaginative project whose aim is no less than to chart the history of the Universe;
- The ability to perfect leading-edge techniques and products in a very demanding application, and to interact with highly technologically sophisticated users;
- The ability to generate and share information with other R&D partners – both institutional and industrial – in a benign and commercially non-threatening environment;
- The visibility flowing from association with an innovative, high profile, international mega-science project; and





b. Linkages with Industry

The institute has collaboration for the projects and training of students with Bharat Sanchar Nigam Limited, (Shirpur & Dhule Division), Dissan, Shirpur, Phoenix Pvt. Ltd, Dhule, Shirpur Spinning Mill, Shirpur. This collaboration helps to build more technical resources, interaction and exchange of knowledge.

Institute will also develop Industrial Linkages with the help of it's existing sister institute R. C. Patel institute of Technology, Shirpur which has following linkages with the industry;

S.N.	Training Partners	Courses Conducted
01		Awarded by Wipro For Best College for Campus Recruitment in Western India Region
02		Accredited by TATA Consultancy Services
03		Faculty Empowerment Program by Mission 10X sponsored by Wipro Technology, Bangalore
04		.Net, JAVA and Embedded Technology
05		Oracle and SQL
06		DB2 and Software Testing
07		Hardware and Networking
08		IT Infrastructure Management & CCNA Networking Course
09		CJET (CMC Job Enabled Training) in Software and Embedded Technology & Project Management
10		For C Programming, C++ Programming, JAVA and .Net
11		Centre for Distance Engineering Education Program through IIT Mumbai

12		VLSI and Embedded
13		Uni Graphics, CATIA, Pro E, Ansys, etc
14		Uni Graphics, CATIA, Pro E, Ansys, etc
16		For Communication Skills
17		Aptitude Training
18		Behavioral Etiquettes
19		Overseas Higher Education Consultant
20		Memory Techniques by Ved Lakshya
21		Employability Development Programme (EDP) _ Soft Skills & Aptitude Development Training
22		BE Project Training Programme
23		Automation Engineering Programme (AEP)

24		Mahindra For Campus Recruitment
25		Honda Motors Campus Recruitment
26		Forbes Marshall_ In Plant Training Programme
27		Tech Mahindra Campus Recruitment

c. Linkages with the Community

The institute has linkages with various NGOs like Lions Club, Community cell like Balaji Mitra Parivar etc.

d. Linkages with other Technical Institutions in the region

The institute has collaboration for the training of students with the following training institutes;

- 1) Very Large Scale Integration (VLSI) Design Course:- Bitmapper Technology, Pune conducts technical training for students and faculty.
- 2) Certification Computer Networking Application (CCNA):- Indian Institute of Hardware Technology, Bangalore conducts technical training for students and faculty.
- 3) Certification Wireless Networking Application (CWNA):- Indian Institute of Hardware Technology, Bangalore conducts technical training for students and faculty.
- 4) Facilitating Excellence in Effective Leadership (FEEL) Employable Teaching and Learning:- College for Leadership and Human Resource Development (HRD Group of Aim-Insights) Mangalore conducts training on personality development, self-development, communication skills and effective teaching-learning process for students as well as faculty members.
- 5) C++, JWA, .NET, RDBMS:- Technical courses conducted by Track Computer Institute, Mumbai
- 6) Collaboration with Shri Vile Parle Kelwani Mandal's D.J. Sanghavi College of Engineering, Mumbai and Narsee Munjee Institute of Management, Shirpur Campus & Mumbai for technology exchange and faculty and student developmental programs.
- 7) Wipro Mission 10X for faculty development

e. Linkages with institutions of excellence such as the IITs and IISc., Bangalore

Linkages with the faculty members from IIT, Khargpur for delivering guest lectures. Institute will also develop Linkages with the help of it's existing sister institute R. C. Patel institute of Technology, Shirpur which has following linkages with the IITs; Virtual Classroom & Virtual Laboratory of IIT Bombay & IIT Kharagpur.

f. Linkages with R&D Laboratories

C-DAC, Pune for conducting training of students and research and developmental activities.

11.9.....GOVERNANCE AND ACADEMIC & ADMINISTRATIVE MANAGEMENT

a. Philosophy of Governance

Introduction:- The management of RCPP believes in implementing fair and transparent management policies. It believes in taking all of the members into confidence before implementation of process and plans. Issues are discussed and agendas are placed during the Annual General Body meeting. It is made sure that any major decision enjoys the full unanimous support of the members without any conflict of ideologies or interests whatsoever.

Best practices and methodologies implemented in successful organizations are observed and discussed to find out its viability in the local environment with respect to RCPP.

A significant amount of emphasis is laid on bottom up communication where a considerable amount of feedback is obtained from the lower tiers of hierarchy and policies finalized for further action.

Although the duties and functions have been defined for each level of management and for each member within a particular level, provision is still made for a certain amount of autonomy. A member can exercise this power during exceptional circumstances in the larger interest of the organization. Such decisions are often appreciated by others in the hierarchy.

Participation:- Participation by both men and women is a key cornerstone of good governance. Participation could be either direct or through middle level management members. Management ensures that the participation is informed and organized. This implies freedom of association and expression on the one hand and an organized system on the other hand.

Rule of law:- Policies are implemented in view of legal frameworks which are enforced impartially. Full protection of human rights, particularly those of minorities are taken care of.

Transparency:- Fair amount of Transparency is maintained in all the decisions taken and their enforcement are done in a manner that follows rules and regulations. Information is freely available and directly accessible to those who will be affected by such decisions and their enforcement.

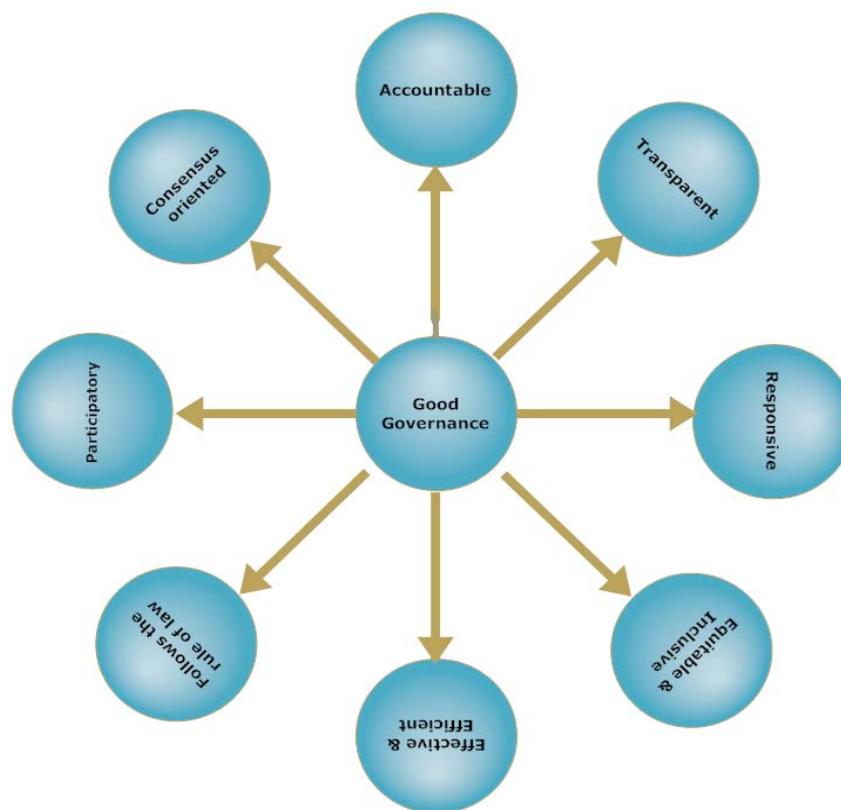
Responsiveness:- All the processes and decisions reach all those are involved in the system, within a reasonable timeframe.

Consensus oriented:- Conflicts in ideologies and interests are sorted out through mediation to reach a broad consensus in the larger interest of the organization and community.

Equity and inclusiveness:- The management imparts a sense of security and wellbeing to all of its members, faculty and students so that they do not feel excluded from the mainstream of organization. This is achieved by providing all groups, the opportunities to improve or maintain their well being.

Effectiveness and efficiency:- Management ensures that the processes and institution produce results that meet the needs of industry and society while making the best use of resources at their disposal. This includes sustainable use of natural, human and financial resources and the protection of the environment.

Philosophy of Good Governance

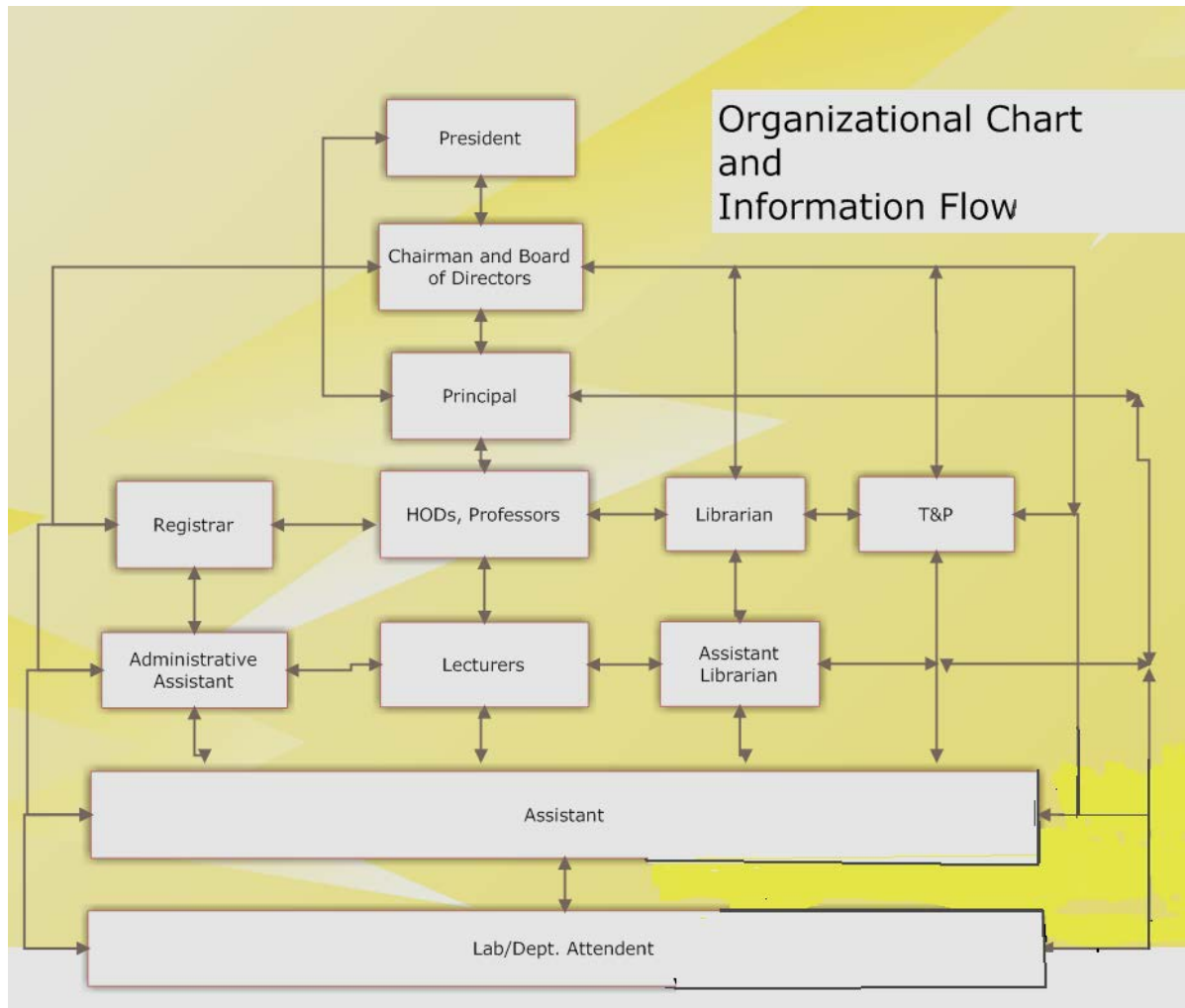


Accountability:- All the members of the governing body are made accountable for the consequences of the decisions taken. Accountability is a key characteristic of the management governance. An adverse consequence arising out of an individual decision is seen as a collective responsibility if the decision was taken in the larger interest of the organization.

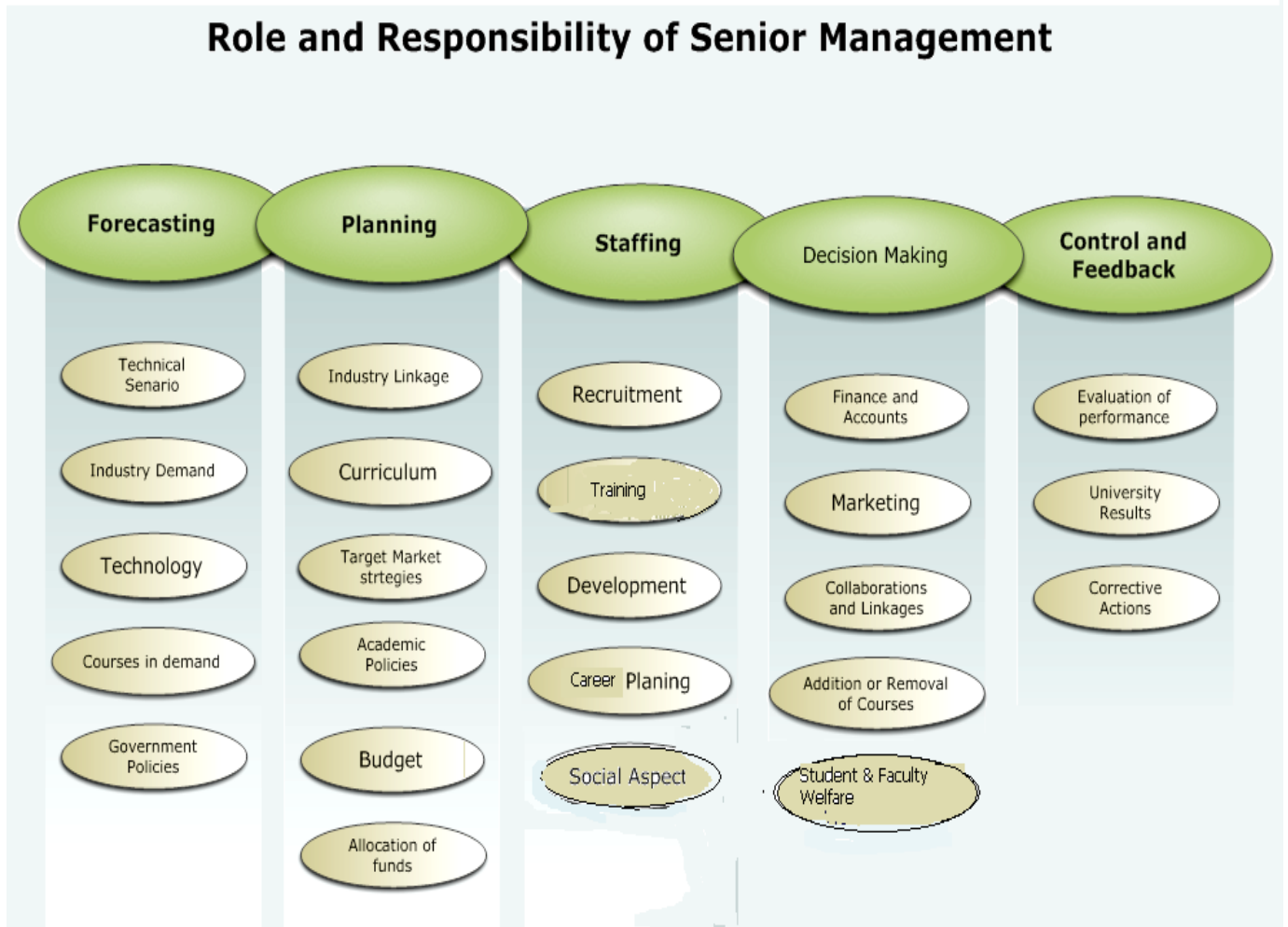
b. Board of Governors

SN	Name of Member	Particulars	Details
1	Shri. Amrishbhai R. Patel	Chairman	Entrepreneur / Industrialist
2	Shri. Bhupeshbhai R. Patel	Member	Entrepreneur / Industrialist
3	Shri. Rajgopal Bhandari	Member	Entrepreneur / Industrialist
4	Prin. Dr. K. B. Patil (Former VC, NMU, Jalgaon)	Member	Educationalist
5	Shri. Yogesh Bhandari	Member	Entrepreneur / Industrialist
6	Principal of R. C. Patel Polytechnic, Shirpur	Member Secretary	Principal
7	Dr. P. K. Sahoo	Member	Ex- Regional Officer, AICTE
8	Ex- Director	Member	Ex- Director
9	Nominee of State Govt.	Member	An Industrialist
10	Chairman / Director of MSBTE	Member	State Board of Technical Education (MSBTE)
11	Faculty of R. C. Patel Polytechnic, Shirpur	Member	Professor
12	Faculty of R. C. Patel Polytechnic, Shirpur	Member	Associate Professor

c. Organizational Structure & Chart for day-to-day Operations & Management

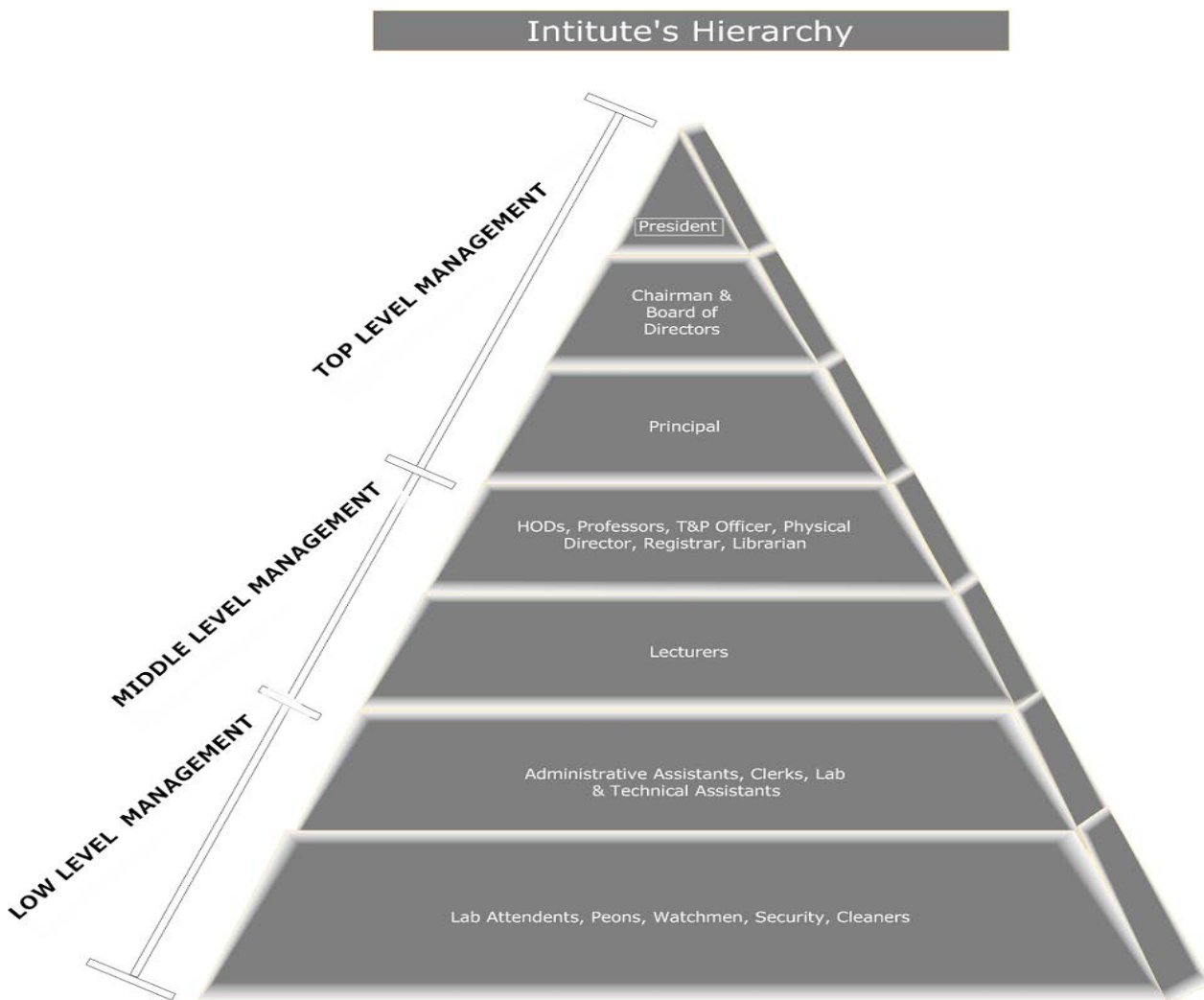


d. Role and Responsibilities of Key Senior Positions

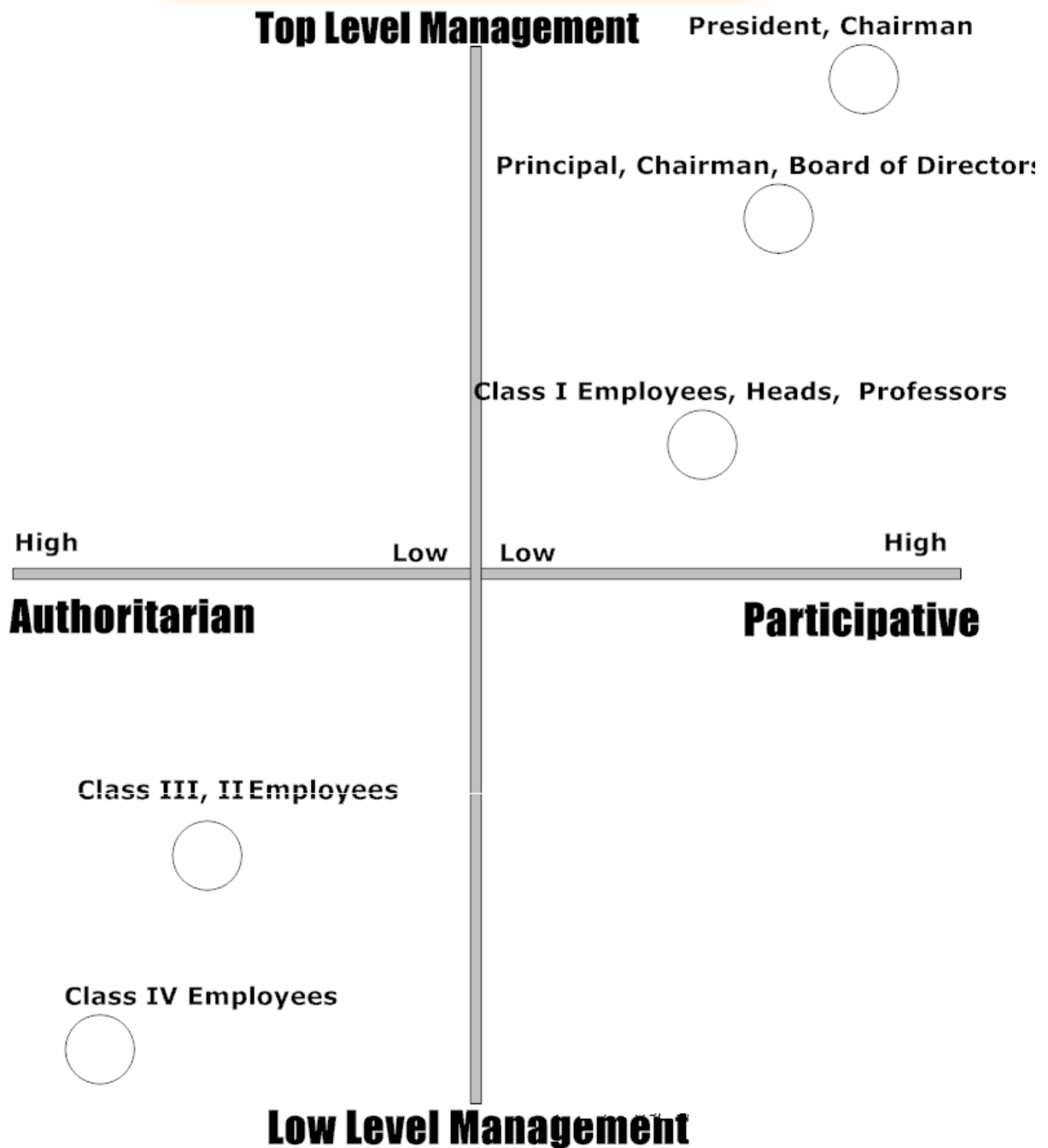


e. Methods / Style of Administration / Management

From the point of view of results, the effectiveness of the institute is determined by the way work is organized and by the way faculty members work with or against each other. The way in which faculty members co-operate with each other, with the leadership and with the community, indeed the extent of their commitment to the institute. So here we look at different styles of institute management at different levels, on their impact on faculty members on the way in which faculty members work together and on results.



Management Styles at different levels of management



- ***Authoritarian (or autocratic)***. This type of lifestyle of management is used at the lower level of management where the superior tells subordinates what to do. An authoritarian approach is necessary if tasks have to be completed quickly or if subordinates lack the experience or skills required for the job.
- ***Participative (or democratic)***. This type of lifestyle of management is used at the top management level which adopts more of a listening approach. Middle level management has an input into the decision-making and the top level management is benefited from their ideas. This style enjoys greater involvement of the top management that motivates employees by meeting their esteem needs. Employees participate when they agree to allow themselves to be organized by an employer, and organization which is based on consent of those being organized is participative. In a participative organization people accept responsibility for work to be done, accept that it is their job to carry out a part of the institute's activities and that they will be held accountable for the quality of their work. The superior's job is to back his subordinate by removing obstacles from the subordinate's path, the subordinate asking for such assistance as the need arises. The superior co-ordinates the work of the group which he manages with that of the higher group in which he is a subordinate. As work may be a source of satisfaction or of frustration, dependent on controllable conditions, the extent to which subordinates derive satisfaction from their work also depends on their own superior's and on the institute's general style of management. People who derive satisfaction from their work will like doing it and do it to the best of their ability; if work is a source of frustration, they will restrict effort and the work is likely to be done badly.

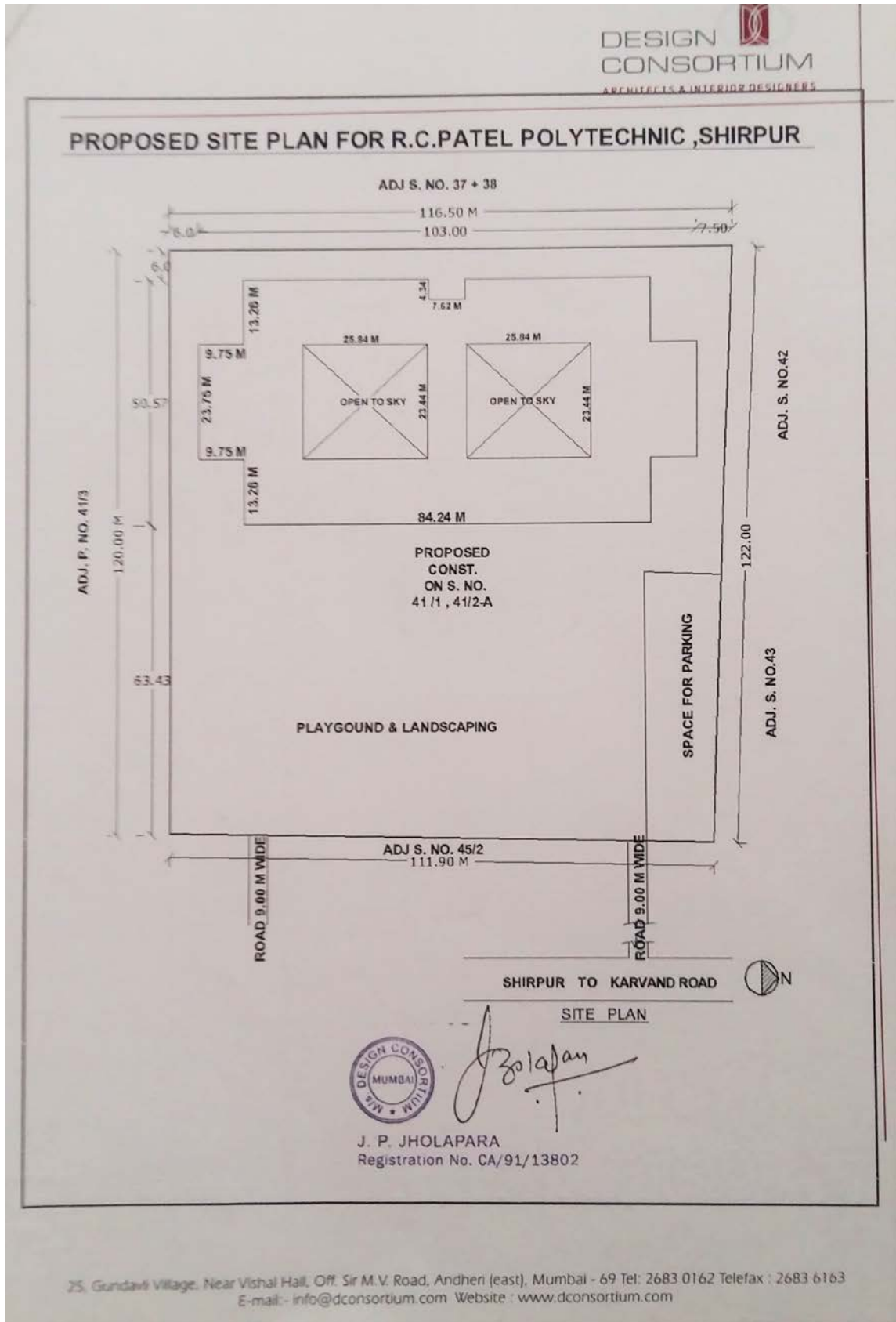
The institute is built on participative management life style at the top level management and this means that participation through decision making, including setting of goals, achieving targets, takes place at all levels of the organization.

11.10.....CONCEPTUAL MASTER PLAN FOR MAIN CAMPUS DEVELOPMENT

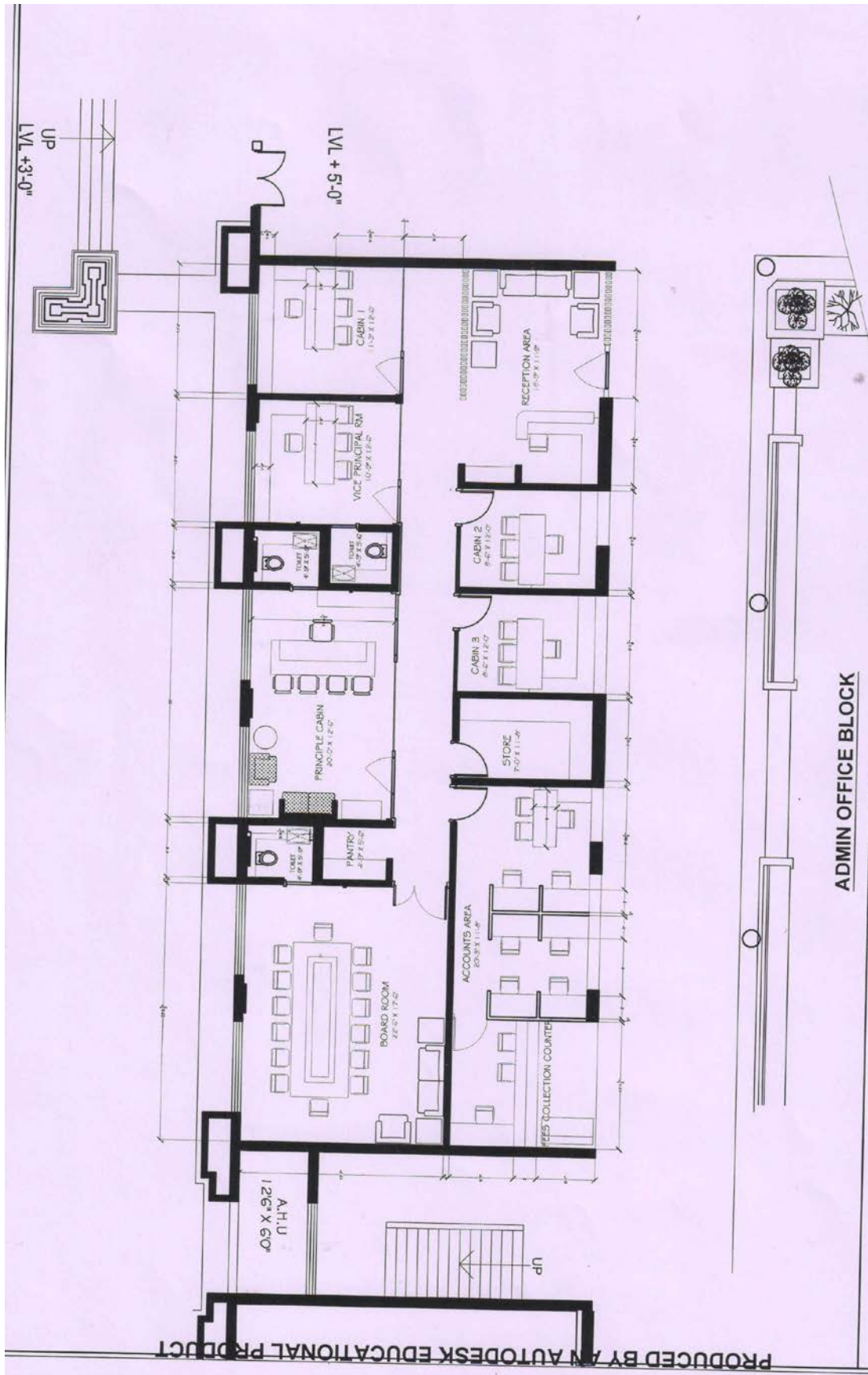
a. The Site

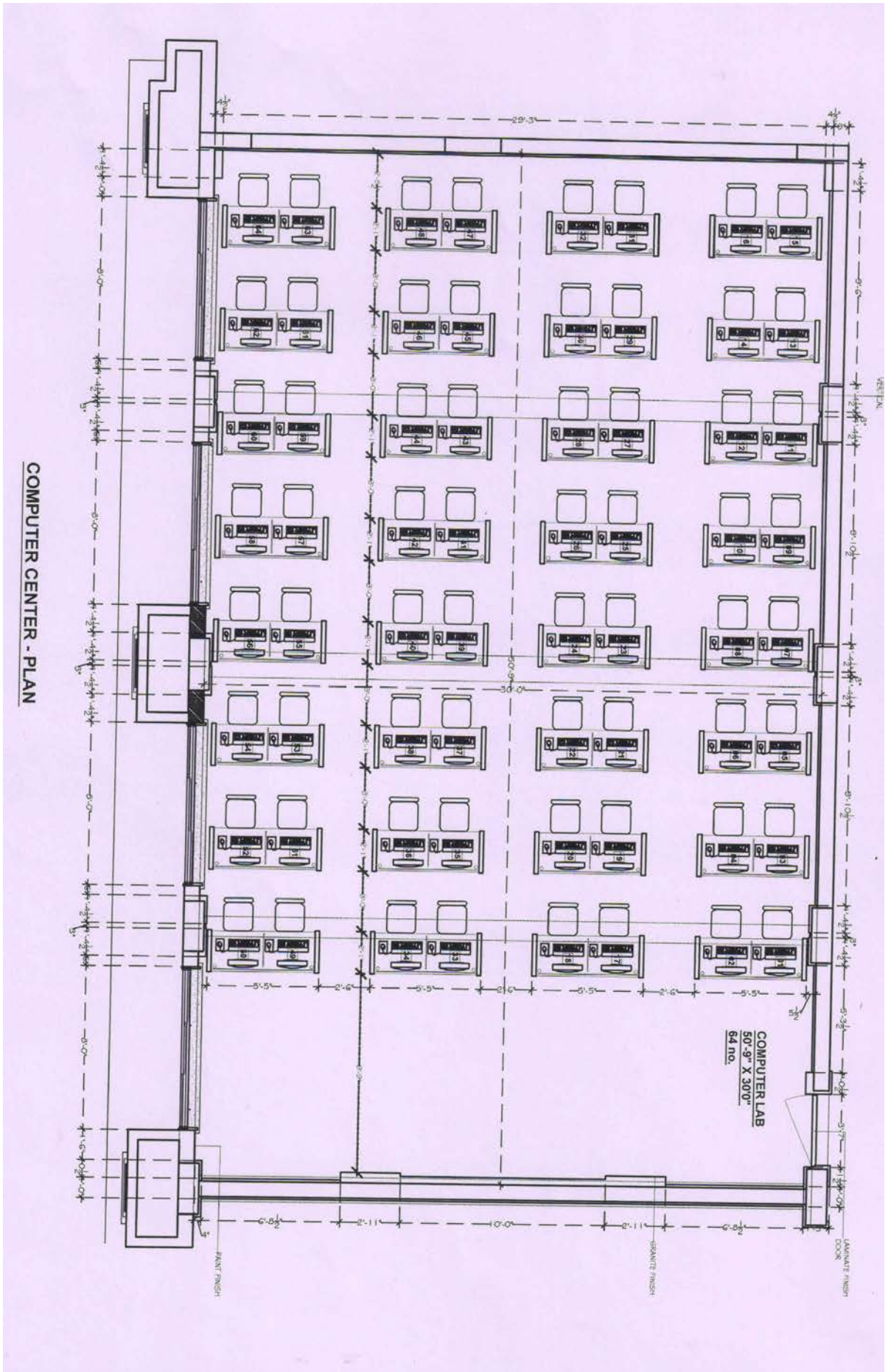


b. Proposed Land Use Pattern

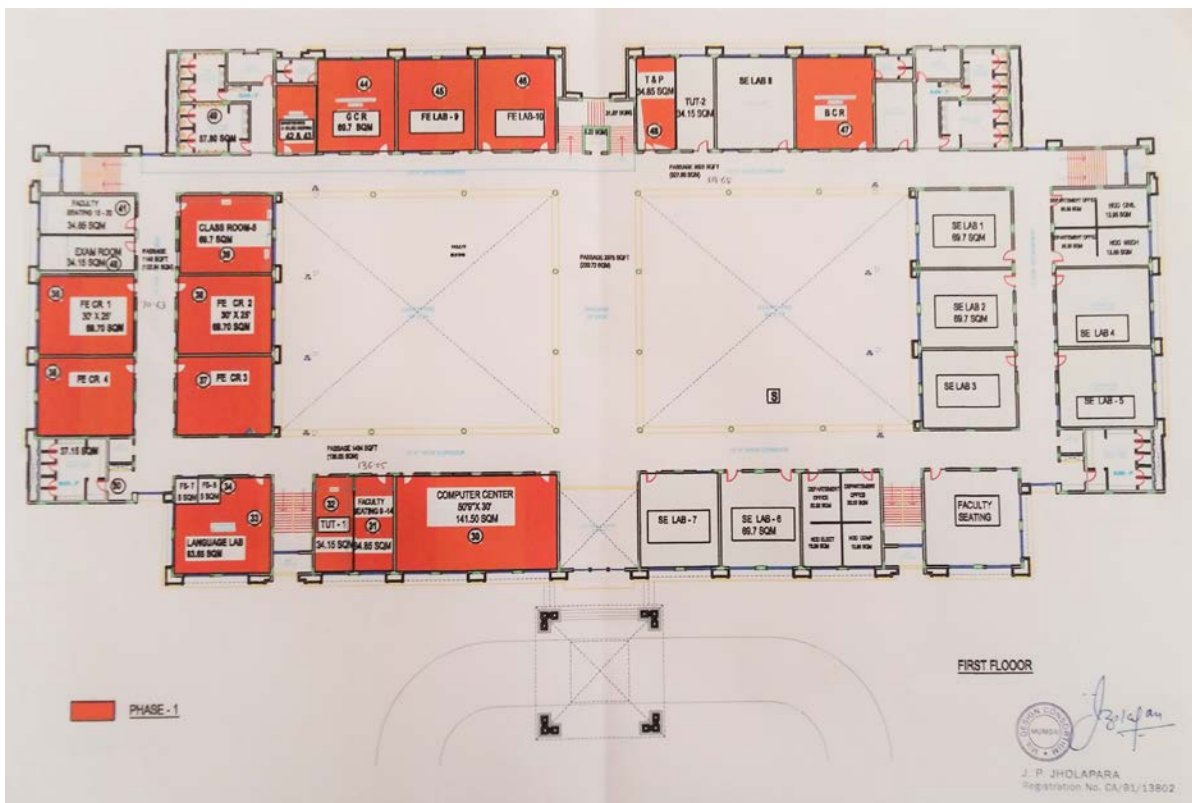


c. Design Concept





d. Buildings & facilities in the Campus





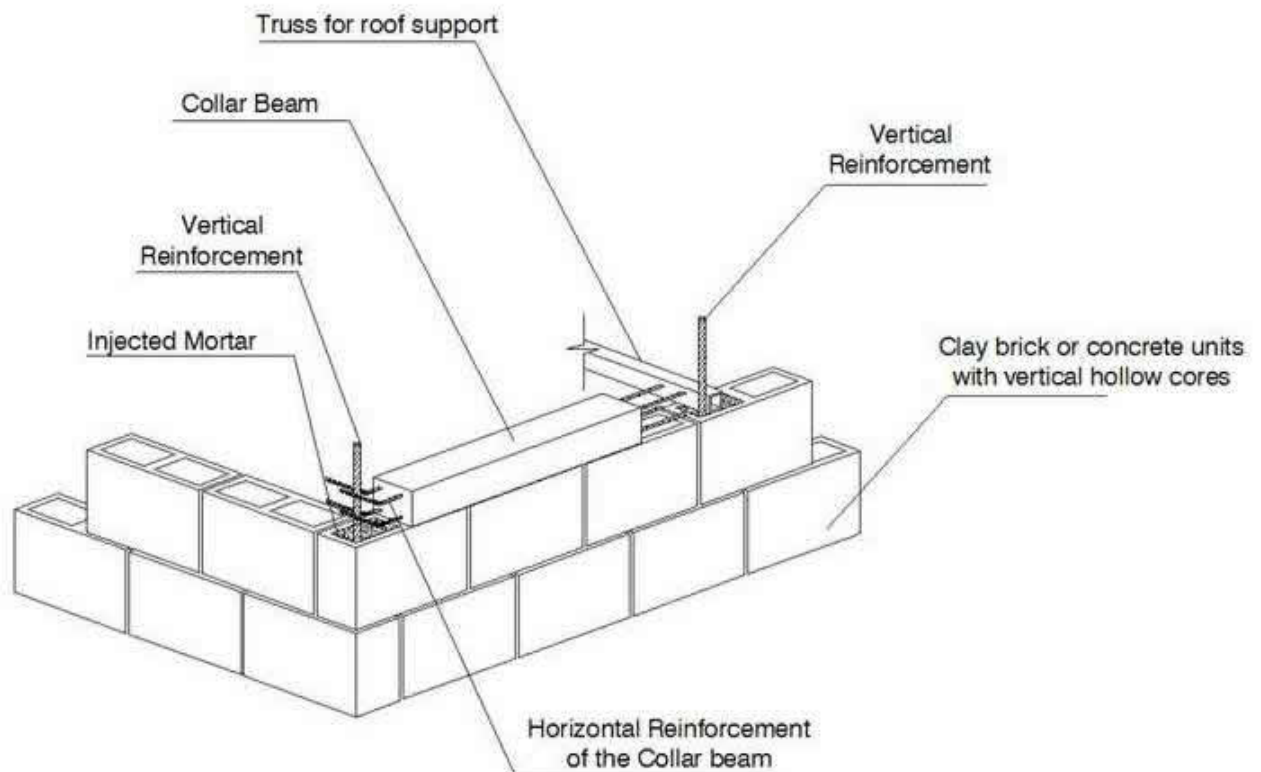


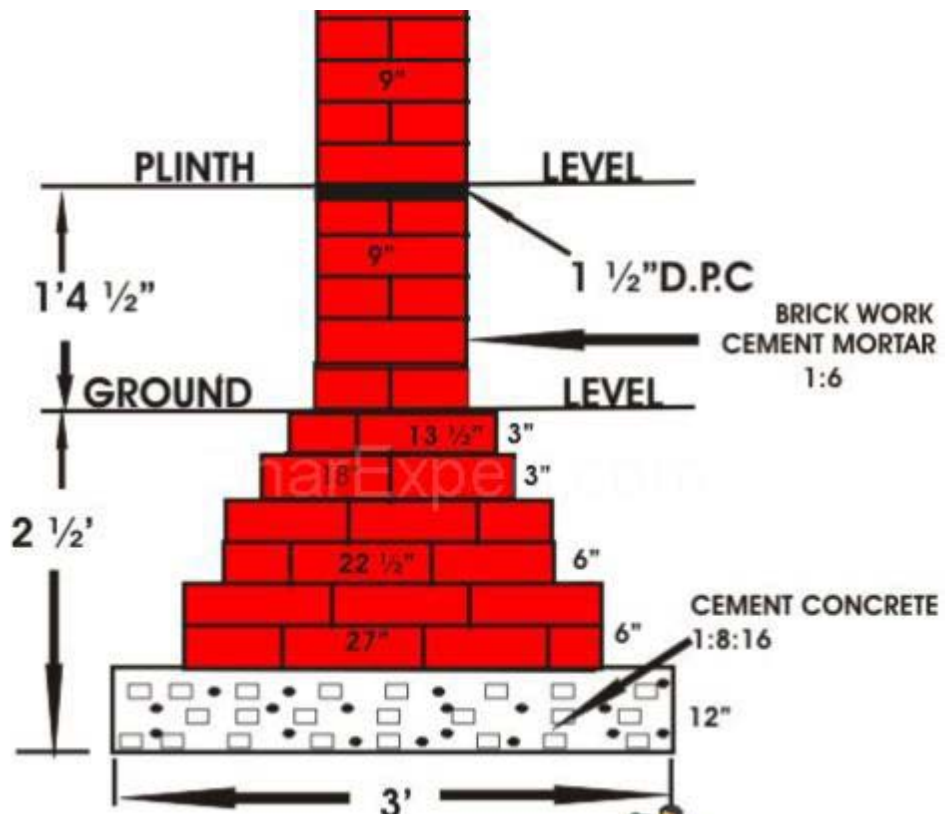
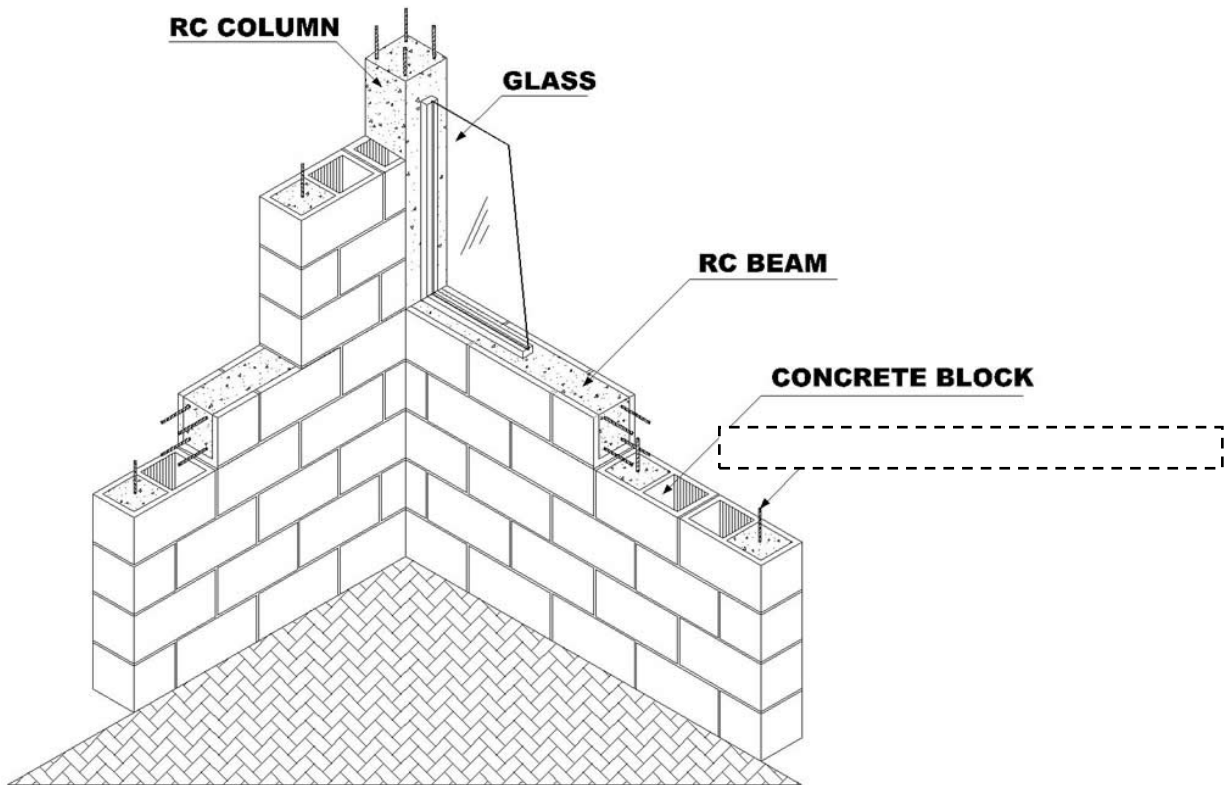


e. External Services

- 1) Bank & ATM facilities
- 2) Loan Facility
- 3) Scholarships schemes for Higher Studies
- 4) Medical facility connected with Specialty Hospitals
- 5) Gymkhana & Club Memberships
- 6) Linkages with NGO for Social Services

f. Construction System & Materials





SCHEDULE OF BEAMS : GROUND FLOOR I

31-08-2015

Beam nos.	B x D	Bottom Straight	Bot bent @	Top bars	Stirrups
1	9"x18"	2 # 10		2 # 20	# 8 @ 4"
2,3	9"x18"	2 # 20	1 # 10 22"	2 # 8	# 8@ 4"(8) # 6@ 8"
4	9"x30"	2 # 12	1 # 10 30"	2 # 8	# 8 @ 6" 1 # 16 extra at top
5	9"x30"	2 # 12		2 # 8	# 8 @ 6" 1 # 16 extra at top
6	9"x18"	2 # 10		2 # 12	# 6 @ 6"
7	9"x15"	2 # 20	1 # 20 18"	2 # 10	# 8@ 4"(10) 8"
8,73	9"x18"	2 # 12		2 # 8	# 6 @ 8"
9	9"x18"	2 # 10		2 # 25	# 10 @ 4"
10,12	9"x18"	2 # 25	1 # 16 22"	2 # 8	# 8@ 3"(14) 8"
11	9"x30"	2 # 16	1 # 10 30"	2 # 8	# 8 @ 6"
13,14	9"x18"	2 # 20		2 # 8	# 8@ 4"(6) # 6@ 8" 2 # 20 extra at top
15,72	9"x15"	2 # 16 + 1 # 12		2 # 10	# 8@ 4"(6) # 6@ 8" 2 # 16 extra at top
16,17	9"x18"	2 # 20 + 1 # 12		2 # 10	# 8@ 4"(12) # 6@ 8" 2 # 20 extra at top
18	9"x30"	3 # 25		2 # 10	# 8@ 3"(24) 8" 3 # 25 extra at top
19,20	6"x18"	2 # 16		2 # 8	# 8@ 4"(6) # 6@ 8" 2 # 16 extra at top
21,22	9"x18"	2 # 20 + 1 # 16		2 # 8	# 8@ 4"(14) # 6@ 8" 2 # 25 extra at top
23,24	12"x24"	2 # 25	1 # 25 30"	2 # 12	# 8@ 3"(16) 8"
25,27	9"x24"	2 # 25	1 # 12 30"	2 # 8	# 8@ 3"(16) 8"
26	9"x24"	2 # 25	1 # 25 30"	2 # 10	# 10@ 4"(11) # 8@ 8"
28	9"x24"	2 # 25	1 # 20 30"	2 # 8	# 8@ 3"(14) # 6@ 8"
29,47	12"x30"	4 # 25	1 # 25 36"	2 # 12	# 10@ 4"(20) 8"
30,47A	15"x30"	6 # 25	2 # 25 36"	3 # 16	# 10@ 4"(24) 8"
31	9"x18"	2 # 20	1 # 20 22"	2 # 8	# 8@ 4"(10) # 6@ 8"
32	9"x18"	2 # 16	1 # 12 22"	2 # 8	# 6@ 3"(5) 8"
33	9"x18"	2 # 16	1 # 16 22"	2 # 8	# 8@ 4"(4) # 6@ 8"
34	9"x18"	2 # 10		3 # 12	# 6 @ 6"
35	6"x18"	2 # 10		2 # 10	# 6 @ 6"
36	9"x12"	2 # 16		2 # 8	# 8@ 4"(4) 6"
37	9"x12"	2 # 12		2 # 8	# 6@ 3"(4) 6"
38,41	9"x12"	2 # 12		2 # 8	# 6 @ 8"
39,39A	9"x18"	2 # 12	1 # 10 22"	2 # 8	# 8@ 4"(4) # 6@ 8"
41	9"x12"	2 # 12	1 # 10 14"	2 # 8	# 6 @ 3"(4) 6"

SCHEDULE OF SLABS :

Slab nos.	Thickness	Short bars	Long bars	Remarks
Sc	3.5" top bot	# 8 @ 6" # 8 @ 6"	# 6 @ 6" # 6 @ 6"	Cantilever
1	4.5"	# 10 @ 6"	# 6 @ 6"	9" sunk
2,5	4.5"	# 8 @ 9"	# 6 @ 6"	One way
3,8	5"	# 10 @ 6"	# 10 @ 6"	9" sunk
4,7	4.5"	# 10 @ 6"	# 6 @ 6"	One way Continuous
6	5"	# 10 @ 5"	# 8 @ 6"	9" sunk
9	5"	# 10 @ 6"	# 6 @ 6"	One way
10	6"	# 16 @ 6"	# 16 @ 6"	Two way
12	5"	# 10 @ 4.5"	# 8 @ 6"	9" sunk
13	4.5"	# 8 @ 6"	# 6 @ 6"	9" sunk
14	4.5"	# 8 @ 6"	# 6 @ 6"	One way
15,1 6	4.5"	# 8 @ 7"	# 6 @ 6"	One way
17	5"	# 12 @ 5.5"	# 8 @ 6"	One way Continuous
18	5" top bot	# 10 @ 6" # 10 @ 12"	# 8 @ 6" # 8 @ 6"	Cantilever 5"
ST	6"	# 8 @ 6"	# 16 @ 6"	Staircase
ST1	5"	# 8 @ 6"	# 12 @ 4"	Staircase
ST2	5"	# 8 @ 6"	# 10 @ 4"	Staircase

NOTES : ALL TOR STEEL EXCEPT 6 mm MILD STEEL.
CONCRETE GRADE M : 200
Beams bml is to be hanged to beams b42,b44,b78,b80 by
9"x 9" / 4 # 12 bars Stuff Column.

SCHEDULE OF GROUND FLOOR SLAB BEAMS OF POLYTECHNIQUE
BUILDING AT SHIRPUR.

ARCHITECT : KALPESH VAIDYA

31-08-2015

Agawal

P. M. AGRAWAL
Consulting Engineers & Regd Valuers,
Near Venkatesh Temple, TALGAON

Column nos.	P.C.C. 4" 1:3:6 th.	Footing size	d	D	Reinforcement Bothways	Col. Ground floor Size Reinf't
1,4,17,20	7'6"x7'6"	6'6"x6'6"	9"	36"	17 nos # 10mm	9"x24" 10 # 16
2,3,18,19,50,63,92,103,134,135,147,148,155,172	8'0"x8'0"	7'0"x7'0"	12"	40"	19 nos # 10mm	9"x30" 14 # 16
5,6,7,8,9,12,13,14,15,16,65,66,69,74,77,78,81,86,89,90, 124,131,136,137,138,139,139A,142,143,144,145,146, 156,158,160,162,164,175,177,179,181,183	9'3"x9'3"	8'3"x8'3"	15"	48"	24 nos # 10mm	12"x30" 16 # 16
10,11,132,150,187,190	6'9"x6'9"	5'9"x5'9"	8"	30"	14 nos # 10mm	9"x21" 12 # 12
11,22,24,26,27,29,30,32,47,49,51,52,52A,61,61A, 62,93,102,126,129,166,186	8'6"x8'6"	7'6"x7'6"	15"	42"	21 nos # 10mm	9"x33" 16 # 16
22,28,110,111,112,123,140,141	9'6"x9'6"	8'6"x8'6"	15"	51"	25 nos # 10mm	9"x39" 18 # 16
25A,25B,189,191	6'3"x6'3"	5'3"x5'3"	8"	26"	12 nos # 10mm	9"x18" 8 # 12
31,39,40,48,120,121,125,130	9'3"x9'3"	8'3"x8'3"	15"	48"	24 nos # 10mm	9"x36" 16 # 16
33,46,104,117,154,154A,167,173,173A,185,193,194, 195,196,197,198	8'3"x8'3"	7'3"x7'3"	12"	42"	20 nos # 10mm	9"x30" 14 # 16
34,35,36,37,38,41,42,43,44,45,64,67,68,75,76,79,80,87, 88,91,105,106,107,108,109,112,113,114,115,116,127, 128,133,149,157,159,161,163,165,174,176,178,180,182	10'0"x10'0"	9'0"x9'0"	15"	56"	28 nos # 10mm	12"x33" 18 # 16
53,54,55,58,59,60,70,71,72,73,82,83,84,85,94,95,96,99, 100,101,	7'3"x7'3"	6'3"x6'3"	9"	34"	16 nos # 10mm	18" dia 9 # 16
56,57,97,98	9'0"x9'0"	8'0"x8'0"	15"	45"	23 nos # 10mm	18" dia 16 # 16
119,122	10'3"x10'3"	9'3"x9'3"	15"	60"	29 nos # 10mm	12"x33" 20 # 16
151,153,168,169,171,184	7'3"x7'3"	6'3"x6'3"	9"	34"	16 nos # 10mm	9"x24" 8 # 16
152,170	7'9"x7'9"	6'9"x6'9"	9"	39"	18 nos # 10mm	9"x27" 12 # 16
188,192	5'6"x5'6"	4'6"x4'6"	6"	20"	9 nos # 10mm	9"x15" 6 # 12

REVISED SCHEDULE OF COLUMN FOOTINGS FOR POLYTECHNIC BUILDING AT SHIRPUR.

20-05-2015

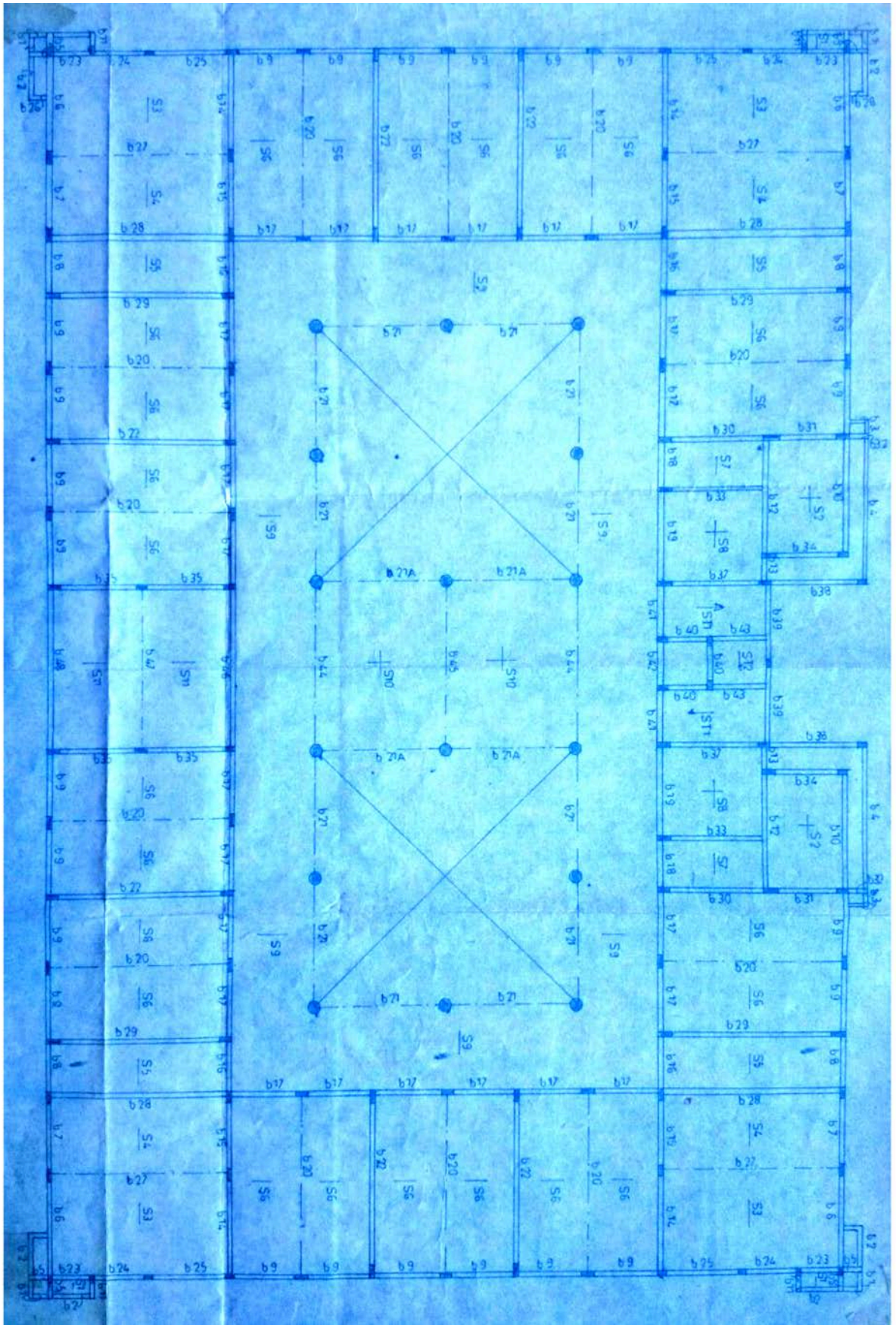
Am

P. M. ACHARYAL

Consulting Engineer & Architect
Near Venkateswara Temple, HALGAON

Beam nos.	B x D	Bottom Straight	Bot bent @	Top bars	Stirrups
42	9"x24"	2 # 20	1 # 20 30"	2 # 10	# 8@ 3"(16) 8"
43,bml	9"x18"	2 # 20	1 # 12 22"	2 # 10	# 8@ 3"(14) 8"
44	9"x24"	2 # 20 + 1 # 12	1 # 20 30"	2 # 10	# 8@ 3"(20) 8"
45	9"x24"	2 # 20	1 # 16 30"	2 # 10	# 8@ 3"(14) 8"
46,48, 56	12"x30"	3 # 25	1 # 25 36"	2 # 12	# 10@ 4"(18) 8"
49	9"x24"	2 # 25	1 # 20 30"	2 # 10	# 10@ 4"(8) # 8@ 8"
50,52,69, 71	9"x12"	2 # 12		2 # 8	# 6 @ 8"
51	9"x12"	2 # 10	1 # 12 14"	2 # 8	# 6@ 3"(2) 8"
53,57	9"x18"	2 # 12	1 # 10 22"	2 # 8	# 6 @ 8"
54	9"x18"	2 # 20		2 # 8	# 8@ 4"(6) # 6@ 8" 2 # 20 extra at top
55	9"x18"	2 # 16		2 # 8	# 8@ 4"(4) # 6@ 8"
58	9"x18"	2 # 16	1 # 12 22"	2 # 8	# 8@ 4"(8) 8"
59	9"x18"	2 # 10		2 # 8 + 1 # 16	# 8 @ 3"
60	9"x18"	2 # 10	1 # 16 22"	2 # 8	# 6 @ 8"
61	9"x24"	2 # 20	1 # 20 30"	2 # 8	# 8@ 4"(12) 8"
62,63	9"x30"	2 # 12 + 1 # 10		2 # 8	# 6@ 3"(3) 8" 1 # 16 extra at top
64	9"x30"	2 # 25	1 # 25 36"	2 # 10	# 8@ 3"(18) 8"
65	6"x18"	2 # 20		2 # 10	# 8@ 4"(8) # 6@ 8"
66,67	9"x24"	2 # 25	1 # 12 30"	2 # 8	# 8@ 4"(10) # 6@ 8"
68	9"x18"	3 # 12	1 # 16 22"	2 # 8	# 8@ 4"(5) # 6@ 8"
70	9"x18"	2 # 16	1 # 10 22"	2 # 8	# 8@ 4"(4) # 6@ 8"
73A	15"x30"	5 # 25	2 # 25 36"	3 # 16	# 10@ 4"(24) 8"
74,75	9"x30"	3 # 12		2 # 8	# 6@ 3"(3) 8" 1 # 20 extra at top
76	9"x30"	2 # 12		3 # 20	# 8 @ 3"
77,80	9"x18"	2 # 25	1 # 25 22"	2 # 10	# 10@ 4"(8) 8"
78	9"x24"	2 # 12		2 # 25	# 6 @ 8"
79	9"x24"	2 # 12		2 # 25 + 1 # 16	# 10 @ 4"
81	9"x24"	2 # 25	1 # 16 30"	2 # 10	# 10@ 4"(14) # 8@ 8"
82,83	9"x18"	2 # 25 + 1 # 16		2 # 12	# 8@ 3"(18) 8" 2 # 25 extra at top
84	12"x30"	2 # 25		2 # 16	# 8@ 3"(16) 8" 2 # 25 extra at top

g. Landscape Proposal





11.11.....REQUIREMENT OF STAFF, SPACE, EQUIPMENTS AND THEIR COST

b. Faculty Requirements

Year	Addition of Intake for the Program	Addition al Intake	Recruitment Plan				Period of recruit ment
			Principal	Head of Dept.	Lecturer	Total	
2016-17	First Year Engineering (Common to all branches)	300	1	5	15	21	April 2016
2017-18	Second Year Engineering						April 2017
	Electronics and Tele-Communication	60	0	0	3	3	
	Computer Engineering	60	0	0	3	3	
	Mechanical Engineering	60	0	0	3	3	
	Electrical Engineering	60	0	0	3	3	
2018-19	Third Year Engineering						April 2018
	Electronics and Tele-Communication	60	0	0	3	3	
	Computer Engineering	60	0	0	3	3	
	Mechanical Engineering	60	0	0	3	3	
	Electrical Engineering	60	0	0	3	3	
	Civil Engineering	60	0	0	3	3	

c. Non-teaching Staff Requirements

Name of Post	No. of Post to be Recruited	Time frame for recruitment
Registrar	01	June 2016
Accounts Officer	01	June 2016
Estate Manager	01	June 2016
Accountant	01	June 2016
Clerks	06	June 2016
Drivers	01	June 2016
Watchman	02	June 2016
Peon	12	June 2016

d. Building Requirements: Area and Costs

	First Year			Second year			Third Year			TOTAL	
	No.s	area/ room	total area	No.s	area/ room	total area	No.s	area/ room	total area	No.s	total area
No. of Divisions (D) of 60 intake											
Land in Acres (Urban)											1.5
Instructional Area											
Classrooms (C)	4	66	264	4	66	264	4	66	264	12	792
Tutorial Rooms	1	33	33	1	33	33	1	33	33	3	99
Seminar Hall				1	132	132				1	132
Laboratory	10	66	660	8	66	528	8	66	528	26	1716
Additional Workshop				4	200	800				4	800
Work Shop (First Year)	1	200	200							1	200
Computer Center	1	100	100							1	100
Drawing Hall	1	132	132							1	132
Library	1	300	300							1	300
Language Lab	1	66	66							1	66
			1755			1757			825		4337
Administrative Area											
Principal Cabin	1	30	30							1	30
Board room	1	20	20							1	20
Admin Office	1	150	150							1	150
Faculty Room	30	5	150	30	5	150	30	5	150	90	450
Central Store	1	30	30							1	30
Maintenance Room	1	10	10							1	10
Security Cabin	1	10	10							1	10
House Keeping	1	10	10							1	10
Examination Hall	1	30	30							1	30
Departmental Office				5	20	100				5	100
HOD cabins				5	10	50				5	50
Placement Cell				1	30	30				1	30
Pantry for staff	1	10	10							1	10
			450			330			150		930
Amenities Area											
Boys Common Room	1	75	75							1	75
Girls Common Room	1	75	75							1	75
Cafeteria	1	150	150							1	150
Stationary store & Xerox	1	10	10							1	10

First Aid room	1	10	10						1	10	
Toilets	2	75	150						2	150	
			470	0			0				470
TOTAL AREA Sq. mtr.			2675			2087			975	5737	

Cost of

Construction

(Rs. 14,000 per Sq.

Mtr.)

37450000

29218000

13650000

80318000

e. Estimated Cost of Equipment

S.No.	Material	Required for	Qty	Rate	Amount
1	Benches	Classrooms & Lab	270	6500	1755000
2	Chairs (Students & Staff)	Computer Centre/Rooms	181	2700	488700
3	Vip Chairs	Principal Cabin	7	3500	24500
4	White Boards	Class Rooms & Labs	20	4500	90000
5	Table	Office/Staff/Labs	49	3000	147000
6	Telephone & Fax	Office	1	5000	5000
7	Printer (dot matrix)	Computer Centre	4	7200	28800
8	Printer laser jet	Office/Staff/Labs	6	11800	70800
9	Colour printer	Office/Staff/Labs	1	8000	8000
10	Lan Switch	Computer Centre	4	16200	64800
11	Router	Computer Centre	1	40000	40000
12	Wireless Router	Computer Centre	2	3500	7000
13	Lan Cabling	Computer Centre	1	110000	110000
14	UPS (Back-up)	Computer Centre	1	180000	180000
15	Batteries	Computer Centre	26	3000	78000
16	Scanner	Library	1	3500	3500
17	Xerox Machine	Library	1	50000	50000
18	Internet bandwidth	Min 16 Mbps	1	350000	350000
19	Fans	All Rooms	180	1350	243000
20	Notice board	Labs & Office	18	1500	27000
21	AC	Principal/Board Room	4	46000	184000
22	Handicapped Chair	for Handicapped students	1	10000	10000
23	Water cooler & Aqua-Guards	1 for each floor	2	52000	104000
24	Insurance	Equipment and Building (Fire/Earthquake etc)	1	50000	50000

25	Fire Extinguisher	1 for each floor, library/s,canteen,office	6	7000	42000
			TOTAL		4161100

Sr. No.	Name of Department	Name of Lab	Tentative Budget
1	Mechanical	Drawing Hall	431000.0
2	Mechanical	Workshop	2100000.0
3	Civil	Mechanics	120735.0
4	Computer	Software (Applications/System)	2,06,000
5	Computers	106, Pcs/Server	3233000.0
6	Applied Science	Physics	264600.0
7	Applied Science	Chemistry	264010.0
8	Applied Science	Language Lab	150000.0
9	Electronics and Telecommunication	Elements of Electronics, Basic Electronics, Electronics Workshop, Basic Workshop Practice	362069.0
10	Electrical	Electrical Lab	195536.0
11	Library	Books, National Journals	500000.0
12	College	Other Infrastructure	4161100.0
Total			11782050.0

f. Phase-wise Financial Requirements

Particulars	2016-17	2017-18	2018-19	Total
Construction	4,00,00,000	3,00,00,000	1,50,00,000	8,50,00,000
Equipment	1,20,00,000	80,00,000	50,00,000	2,50,00,000
Library Books	5,00,000	5,00,000	5,00,000	15,00,000
Salary	1,50,00,000	1,80,00,000	2,00,00,000	5,30,00,000
Other Educational & Administrative recurring Expenses	1,00,00,000	1,20,00,000	1,30,00,000	3,50,00,000
TOTAL (rs.)	7,75,00,000	6,85,00,000	5,35,00,000	19,95,00,000

g. Strategies for Financial Mobilization

Particulars	2016-17	2017-18	2018-19
TOTAL Expenses Budgeted (Rs.)	7,75,00,000	6,85,00,000	5,35,00,000
Bank Balance (Rs.)	2,00,00,000	2,00,00,000	1,00,00,000
FDR (Rs.)	5,00,00,000	2,00,00,000	-
Fee	1,50,00,000	3,00,00,000	4,65,00,000


11.12.....ACTION PLAN FOR IMPLEMENTATION

a. Activity Chart



Act of Value Based Services		J	F	M	A	M	J	J	A	S	O	N	
		A	E	A	A	A	J	J	A	S	O	N	
		N	B	R	L	Y	N	L	G	P	T	V	
Value Added Services for Mouth	Activity Chart												
	Welcome / Induction Program												
	Institute Magazine/Souvenir Publications												
	National/International Seminars												
	Guest Lectures / Industry Interaction / Experts												
	Industrial Visits / Educational Tours												
	Sports Activity												
	Cultural Activity												
	Training Courses												
	Farewell Program												
	Parents Meet / Interaction												
	Local Guardian Counselling Programs												
	Programs under dept. associations												
	Periodically Assessment												
	Annual Award / Rewards												
	Social Involvement Programs												
	Campus Placements & Higher Study Guidance												
	E-mail/SMS communication												
	ICT based Teaching - Learning												
News/articles in News (Press Releases)													
Social Media & Web based engines													

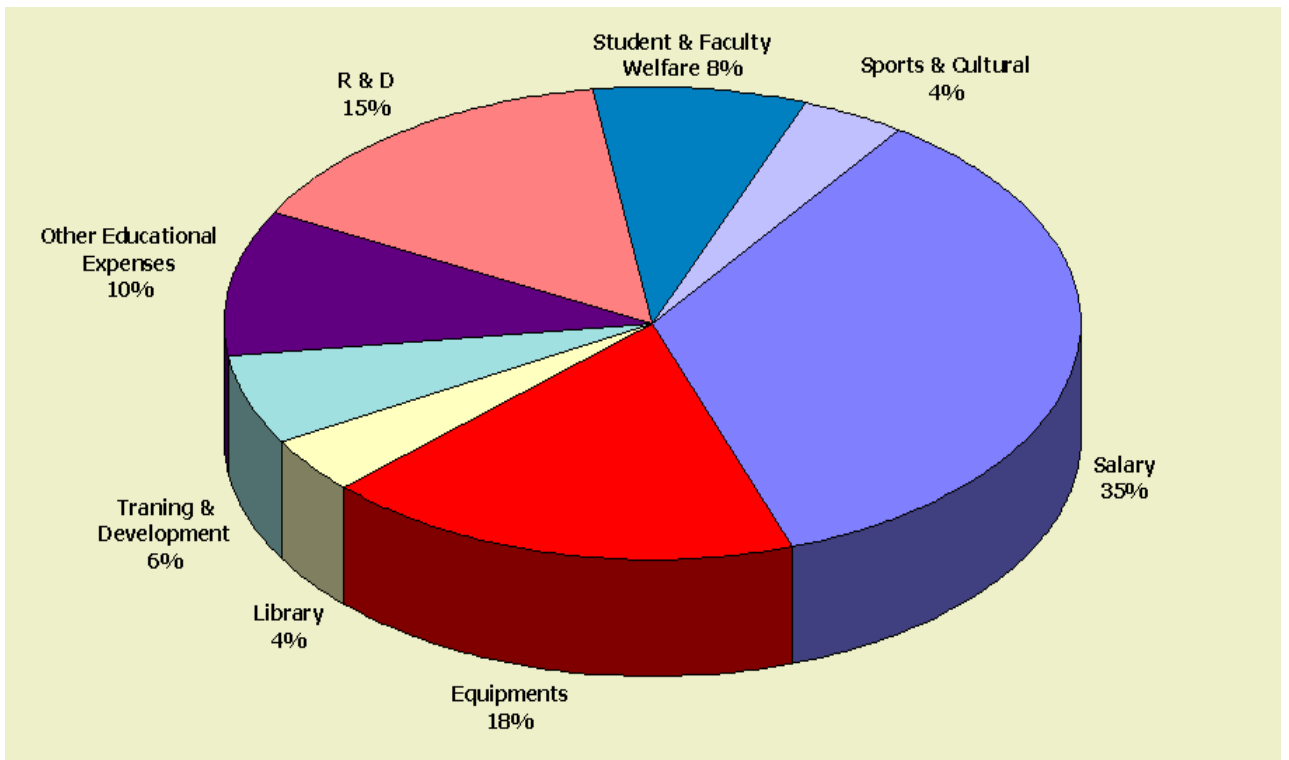


Act of Value Based Post-Services		J	F	M	A	M	J	J	A	S	O	N	D
		A	E	A	P	A	U	U	U	E	C	O	E
Activity Chart													
Services for Loyalty	Inviting alumni for Guest lecture / as a Committee Member		■		■				■		■		
	Placements / Technology Assistants	■						■					
	Alumni Association Meet			■									
	Alumni Souvenir Publications							■					
	Felicitation / Rewards & Awards								■				
	Social Media & Web based engines 	■	■	■	■	■	■	■	■	■	■	■	■

b. Constraints

1. Availability of qualified & skilled man power
2. Publicity Program to attract admissions

c. Financial Outlay



d. Strategy for Implementation



a. DETAILS ABOUT THE PROMOTING BODY

The Shirpur Education Society, Shirpur was established as per Registration of the society on 24/10/1979 and its reg. no. is E-228 (Dhule) & E-31303 (Mumbai), under Bombay Public Trusts Act, 1950 through Assistant Charity Commissioner, Dhule. The Society, in 2008-2009 was accorded a status with Linguistic Minority (Gujarathi) by the State Govt. of Maharashtra from 2008-2009. The Shirpur Education Society, Shirpur has got state award by the Education Minister, Maharashtra State for the year 2003 for its, commendable contribution in the field of social & education.

The main objective and motive was to spread education with a focus on infrastructure that match global standards by opening pre-primary, primary schools, high-schools, colleges, professional colleges so that every student from the nearby rural area is benefited and is fully educated. Today, the society is been involved in building and sustaining a strong education base in the city of Shirpur (Shirpur Taluka) and the nearby rural area. Its chain of educational services range right from kindergarten to post graduation studies in almost all of possible professional courses. Today, students flock to this chain from the developed cities across the country.

- **Vision of the Promoting Body**

Vision:- To emerge as a self-reliant center for academic excellence of the highest order within the state of Maharashtra and to create skilled human resources on which the nation can bank upon to build potentially domain, be it engineering, pharmacy, management or social science.

- **Mission of the Promoting Body** (in 100 words)

The Shirpur Education Society with its wide array of educational institutions functions with the following mission;

1. To impart primary education to strengthen the educational foundation of pupils in the rural areas within the vicinity of the city.
2. To provide state-of-the-art infrastructural facilities for effective conduction of graduate and post graduate programs.
3. To organize inter-institutional contests and events focusing on all round development of students.
4. To inculcate in students values with social significance

b. Name and Address of the Promoting Body:

(Government / University / Trust / Society)

The Shirpur Education Society, Subhash Colony, Opposite to Telephone Exchange Building, Shirpur-425405, Dist: Dhule

c. Date of Registration / Establishment of the Promoting Body:

E-228/dhule Dated 24/10/1979 (Old)	E-31303/Mumbai Date: 12/06/2015 (new)
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d. Nature of the Promoting Body:

Religious	Charitable ✓	Family	Others
-----------	---------------------	--------	--------

The Shirpur Education Society, Shirpur is developed under the missionary of development, Shri Amrishbhai Patel (presently MLC; President of Shri. Vile Parle Kelvani Mandal, Mumbai; Chancellor, Narsee Monjee Institute of Management Studies, Mumbai; Former Cabinet Minister for School Education, Sports & Youth Welfare) and his family dedicated themselves towards uplifting this small village of 50000 population. Well settled Industrialists in Mumbai, Patel Brothers –Amrishbhai, Late Mukeshbhai and Bhupeshbhai dreamed for setting an ideal example of rural development. They did not wait for opportunities but created them. The development in their views is mental revolution. They related themselves with people of Shirpur through various activities. The bread and butter

of the residence came from agriculture and Patel Brothers concentrated towards agriculture development. They broke the chronic water scarcity by bringing water from nearby flowing Tapi river. Water conservation was put in practice when rest of the country was publishing their research papers. Water conservation magically converted this arid region into irrigated and flourishing agriculture. Today, Shirpur Pattern (Water Conservation) under the visionary leader Shri. Amrishbhai Patel is gaining importance rapidly not only in India but abroad also. People started thinking of agriculture beyond bread and butter as a business and changed the crop pattern to cash crops, to textile business. Today, 70% employment (more than 7,000) in Shirpur belongs textile industry. Agro industries were geared up to put handsome money in the hands of farmers. One of the initiative towards this is Priyadarshini Spinning Mill and its correlated processing textile units – dying . weaving, knitting, etc are piled up.

This development both in agriculture, education and industry gave work to the hands. Patel brothers recognized that the key for well cultured and well-mannered and thus over all developed society is education. The real development is development of Human Resource and this can be geared up by education. With a view of providing high caliber education in conducive atmosphere, Shirpur Education Society and R.C. Patel Education Trust came into picture. To nourish the rural talent and to bring them into main stream, education facilities are provided right from the kinder garden to Post Graduation.

The majority of directors of promoting body i. e. The Shirpur Education Society, Shirpur are the family members of trust - Shri. Vile Parle Kelwani Mandal, Mumbai, one of the pioneer institutions in India. The schooling is provided in both the mediums of English with CBSE and State Board Pattern and Marathi. The traditional courses as Arts, Science and Commerce, D.Ed, B.Ed are provided with at par teaching facilities. The Shirpur Education Society, Shirpur along with R. C. Patel Educational Trust, Shirpur has a network of 78 schools and 14 colleges spread across the tehsil. To provide professional courses and make students industry ready SES and RCPET established R. C. Patel Institute of Technology, R. C. Patel Pharmacy College, H.R. Patel Pharmacy College, R. C. Patel Institute

of Management, etc. Today, this umbrella has more than 30,000 students and more than 2,000 employee within its sphere. Within this short span, this Society has created its image as quality education hub. With its quality education and placement engineering and pharmacy colleges are attracting students from all over India. Students from J&K, Assam to South States are flying to Shirpur for getting industry ready. High values imparted into students and willingness for hard work have proved to be resources for companies. With flourished economy and quality basic education, students of Shirpur are making their ways towards foreign universities. The professional courses offered by this Society are Accredited, Re-accredited, some are NAAC accredited, some are accredited by the Industry, some are ISO:9000 certified. Most of them have awarded by the Industry / University with merit rank for their excellent contribution in the field.

e. Activities of the Promoting Body since inception:

Within a short span of 26 years, SES has grown from a seed to a giant tree. Started with a small institution in English medium, today owes 65 various small and big multi disciplinary institutions covering a huge young generation of 30,000 students all around the Shirpur Taluka. The society has built vertical and lateral relationship between staff and students and has made learning environment a comfortable place for the learners.

Major Educational promotional assets are-

- Pharmacy college offering UG & PG programs with Research Center (2 Colleges)
- Pharmacy college Diploma (2 Colleges)
- Management Institute
- State-of-the-art engineering college offering UG & PG courses with Research Center.
- Military School with CBSE pattern
- English Medium Schools (Nursery to 12th)
- Junior College of Education (D.Ed.)
- College of Education (B.Ed.)
- Women's College for Arts
- Arts, Commerce and Science College (Co-education)

- Urdu Medium School
- Several pre-primary schools, high schools, ashram schools at most of villages of Shirpur Taluka
- Hostels for Boys(2) and girls(5) having capacity 200 each

f. Constitution of the Promoting Body:

1	Amrishbhai Rasiklal Patel	Industrialist/Business
2	Bhupeshbhai Rasiklal Patel	Industrialist/Business
3	Rajgopal Chandulal Bhandari	Industrialist/Business
4	Champalal Bansilal Agrawal	Advocate/Service
5	Babanlal Hiralal Agrawal	Business
6	Prabhakararo Tukaram Chavan	Business
7	Jayashriben Amrishbhai Patel	Housewife
8	Chintanbhai Amrishbhai Patel	Industrialist/Business
9	Tapanbhai Mukeshbhai Patel	Industrialist/Business
10	Hiral Chintanbhai Patel	Housewife
11	Rima Tapanbhai Patel	Housewife
12	Sneha Ankit Parekh	Housewife
13	Disha Jainish Desai	Housewife
14	Harshadbhai Himmatlal Shah	Business
15	Bhupendrabhai Martandrao Patel	Business

Justification for starting the proposed programme in view of (a) above

External Factors:-

- 1) **Demand from the industry:** - More than 20 lacs engineering from the field of communication and software industry are required by 2020. Local industrial area (Shirpur, Dhule, Nashik, Aurangabad, Pune, Mumbai) have a great market for diploma holders.
- 2) **Demand from the parents & students (local):- Abundant** jobs are available in the field of communication and software engineering with attractive salary packages at the entry levels. The students from the middle class (large population) are attracted towards the said engineering educations. There is no polytechnic college in the taluka place. There are more than 1500 students that will be available for the entry level at polytechnic.

Internal Factors:-

- 1) **Availability of world class infrastructure:-**
- 2) **Competitiveness :-** The institute has advantage on other institutes in following areas;
Management, Funds, Faculty, Infrastructure and Culture of the institute.
- 3) **Teaching Methodology:-** The institute has interactive teaching-learning methodology.
- 4) **Support from sister engineering college for Training and Placement Cell , technology transfer and faculty exchange:-**