

CONFIRMED

390

MINUTES OF THE 390TH MEETING OF THE SYNDICATE HELD ON 24.1.1998

Place of meeting : Administrative Buildings,
Kochi - 22.

Time : 11 a.m.

Members present:

1. Dr. K. Babu Joseph (in the Chair)
(Vice-Chancellor)
2. Sri V.J. Pappoo
Pro-Vice-Chancellor
3. Dr. K. Sivaraman
4. Sri. P. Radhakrishnan
5. Dr. P. Leelakrishnan
6. Sri. N. Chandrasekharan Nair
7. Dr. M.P. Chandrasekharan
8. Dr. M. Shahul Hameed
9. Dr. A. Mohandas
10. Sri. T.A. Ahmed Kabir
11. Dr. K.G. Nair
12. Dr. K.C. Joseph, M.L.A.
13. Sri. K.K. Gopalakrishnan

Also Present:

Dr. K.G. Balakrishnan
Registrar.

- Item No. 390-01 Reports of action taken upon the decisions of the minutes of the meetings of the Syndicate held on 2.6.1997 (382nd) and 7.6.1997 (383rd).

The Syndicate noted the report of action taken upon the decisions of the minutes of the Syndicate meetings held on 2.6.1997 (382nd) and 7.6.1997 (383rd).

- Item No. 390.02 Confirmation of the minutes of the meeting of the Syndicate held on 15-11-1997(389th).

The minutes of the meetings of the Syndicate held on 15-11-1997 was confirmed without any emendation.

Arising out of confirmation of minutes of 389.05 Dr. K.C. Joseph brought to the notice of the House that there are requests to restore the centres of CAT at least in the Metro cities in India.

It is resolved that the matter be reconsidered after seeking the response from outside State candidates this time.

Item No. 390.03 Report of the Vice-Chancellor on important developments in the University since last meeting.

1. The Vice-Chancellor inaugurated the UGC National Seminar on Functional Hindi on 27th November 1997 in the Department of Hindi, which was held from 27-29 November 1997.

2. A National Seminar on Konkani Literature in the Last Two Decades, sponsored by Kendriya Sahitya Akademi was held on 6th and 7th December 1997. The Vice-Chancellor inaugurated the Seminar.

3. An Expert Review and Assessment Committee of the UGC visited the School of Marine Sciences on 8th December 1997 and conducted a review of the COSIST Programme.

4. An International Conference on Small Enterprise Development: International Experience and Asia Pacific Imperatives was held at the Department of Applied Economics, on 10th December 1997.

5. A One-Day Seminar on the Role of NGOs in the Protection of Human Rights was conducted in the School of Legal Studies on 10th December 1997.

6. A National Symposium on Ocean Electronics on 16th and 17th December 1997 was organised in the Department of Electronics. The Vice-Chancellor inaugurated the Symposium.

7. The Department of Ocean Development, Government of India has sanctioned an amount of Rs. 5.55 lakhs for the scheme entitled "Resource Characteristics and Stock Monitoring of the Exploitable fin fishes in the depth zones 50-500 m off Kerala Coast" under the Principal Investigatorship of Dr. B. Madhusoodana Kurup, Reader, School of Industrial Fisheries.

8. The ICAR has sanctioned an amount of Rs. 8.32 lakhs for the research project entitled "Techno-economic feasibility of farming of *Macrobachium rosenbergii* (Deman) in Kuttanad with special reference to the development of a threshold grow out strategy" under the Principal Investigatorship of Dr. B. Madhusoodana Kurup, Reader, School of Industrial Fisheries.

9. The Annual DAE Symposium on Solid State Physics was held in the University during December 27-31, 1997 and that about 400 delegates were participated in the Symposium.

10. The Department of Ocean Development has sanctioned an amount of Rs. 5.85 lakhs for the scheme entitled "Investigation on the Benthic Productivity in EEZ of India" to the Head, Department of Marine Biology, Biochemistry and Microbiology.

11. The IUC for DAE facility has sanctioned an amount of Rs. 2.35 lakhs for the scheme entitled "Development of Photo-thermal Deflection Technique for Depth Profiling of Ion-implanted Semi-conductor thin films" under the Principal Investigatorship of Dr. K.P. Vijayakumar, Professor, Department of Physics.

12. The DST has sanctioned an amount of Rs. 4.48 lakhs to Dr. C. Unnikrishna Warriar, PDF, Department of Marine Geology for the research proposal entitled "Geology and age relationship of Precambrian rocks around Achankovil Tectonic zone southern India: Implications for Pan-African Tectonics in East Gondwana".

13. UGC has informed that an amount of Rs. 155 lakhs has been tentatively allocated for development assistance to Engineering and Technology Sector of CUSAT for the IX plan period. This is in addition to the amount of Rs. 272 lakhs announced earlier for the General Sector.

14. UGC has approved a nonrecurring grant of Rs. 20 lakhs for the upgradation of the hardware and software facilities of the Computer Centre in the Department of Computer Science. In addition to this the following recurring grant has also been approved for the Computer Centre for a period of five years.

(i) System Analyst - 1 (in the scale of Rs.2200-4000)

(ii) Technical Assistant-1+1(for additional shift) in the scale equivalent to the University's Technical Assistant.

Item No. 390.04 Dutch collaboration and the MHO programme - Details/present status.

The Syndicate considered, along with the recommendations of the Standing Committee on Academic Matters, the present status of the various MHO projects, which are being implemented in collaboration with Dutch Institutions.

Resolved that the following recommendations made by the Syndicate Sub-Committee in its meeting held on 13-11-1997 be accepted;

Considering the fact that the University has to send persons to The Netherlands for sandwich Ph.D. programme, the required undertaking may be given that those sent for the above programme to The Netherlands will be employed in the University on return, on a tenure basis, after successfully completing the said programme. As and when actually required, proposal may be submitted to the Syndicate for creation of such tenure post/s.

These personnel may be selected from a list of candidates obtained through separate advertisement for the purpose and after proper selection procedure.

(Pl.UGC)

Item No. 390.05 Filling up of posts reserved for SC/ST - Minutes of the Xth meeting of the standing committee for the welfare of SC/ST - Consideration of - Regarding.

The Syndicate considered, along with the recommendations of the Standing Committees on Academic Matters and Staff and Establishment, the suggestions made by the Standing Committee for the Welfare of SC/ST in the matter of filling up of posts reserved for SC/ST.

Resolved that earnest effort should be made to fill reserved posts with persons belonging for SC/ST communities by notifying the posts once again.

(Ad.D)

Item No. 390.06 Reduction of cost of application form for SC/ST candidates - Regarding.

The Syndicate considered, along with the recommendations of the Standing Committee on Finance and Purchase, the proposal by the Standing Committee for the welfare of SC/ST to reduce the cost of application form for admission to courses.

Resolved that the cost of application form for CAT be reduced from Rs. 110/- to Rs. 50/- plus postage/service charges for candidates belonging to SC/ST specified as such within the State of Kerala from next year onwards.

(IRAA Unit)

Item No. 390.07 MCA cost sharing course-Conduct of the course - Regarding.

Resolved that this item be deferred for detailed consideration.

(Ac.A)

Item No. 390.08 Department of Computer Applications - Purchase of PCs.

The Syndicate considered, along with the recommendations of the Standing Committees on Academic Matters and Finance and Purchase, the request of the Head of the Department of Computer Applications to sanction purchase of 15 computers for the P.C. laboratory/lab.

Resolved that the request of the Head of the Department of Computer Applications to purchase 15 Nos. PCs with the configuration Intel Pentium 166 MHz, CPU, 512 KB Cache, 16 MB KDM, 1.2 GB HDD 1.44 MB FDD, 8xCD ROM Drive, Windows '95 Keyboard, PCI-VGA with 2 MB VRAM, 14" SVGA Colour Monitor (1024x768)-non interlaced Logitech 3 button mouse with 1 set of Windows '95 005 6.22 Operating Systems with manuals, with 3 years warranty at a total cost of Rs. 8,98,880/- (Rupees eight lakhs, ninety-eight thousand, eight hundred and eighty only) from M/s. Computer Bazar, Kochi-16 be sanctioned, and the expenditure on this account be debited to "2-84-0-3-223-Expenditure on Self Financing courses".

(Ad.C)

Item No. 390.09 Sri. P. Ramachandra Poduval, Professor and Director, School of Management Studies - Voluntary retirement - Nomination of new Director - Request - Consideration of.

This item was withdrawn.

(Ad.D)

Item No. 390.10 Construction of 2 Nos. of toilet blocks (gents and ladies) for students of U.G. Studies in Thrikkakara campus.

The Syndicate considered, along with the recommendations of the Standing Committees on Finance and Purchase and Works the estimate amounting to Rs. 5,20,000/- based on 1996 schedule of rates for construction of 2 Nos. Toilet Blocks (Gents and Ladies) for students of Under Graduate Studies in Engineering.

Resolved that the estimate amounting to Rs. 5,20,000/- based on 1996 schedule of rates for construction of 2 Nos. Toilet Blocks (Gents and Ladies) for students of Centre for Under Graduate Studies in Engineering, be approved and the expenditure on this account be met from "2 - 94 - (CUGSE) - 0 - T - (WORKS) - 375 - (CUGSE Main Building Complex)" provided in the current year's budget.

(CUGSE)

Item No. 390.11 CUGSE - Shifting of CUGSE Library to the premises of the University Library-regarding

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the proposal for shifting the CUGSE Library to the basement block of the University Library.

Resolved that the present status quo be maintained till the University Library facilities are enhanced to cope with the large increase in number of users including under graduate students.

Also resolved that expansion of the Library be considered on priority basis as an urgent item.
(CUGSE)

Item No. 390.12 Grant of incentives to NCC Cadets - Implementation possibilities in the University - Consideration of -

The Syndicate considered the request of the Deputy Director General, NCC, NCC Directorate of Kerala and Lakshadweep to grant bonus marks to NCC cadets for admission to the courses of the University.

Resolved that this item be deferred for detailed consideration by the Standing Committee on Academic Matters.
(Ac.A)

Item No. 390.13 Sri. K.J. James, Reader, Department of Ship Technology - Regularisation of period of absence with Leave Without Allowances - Action of the Vice-Chancellor - Reporting of -

The Syndicate noted the action taken by the Vice-Chancellor in granting leave without allowances to Sri. K.J. James, Reader, Department of Ship Technology, with effect from 3.2.1992 to 12.2.1993, prefixing Sunday (2.2.1992) to regularise his period of absence in accordance with the decision of the Syndicate taken in its meeting held on 13.1.1997 vide item 376.09.

Resolved that the action taken by the Vice-Chancellor be ratified.

(Ad.D)

Item No.390.14: Dr. K.A. Jose, Lecturer, Department of Electronics - Request for Leave Without Allowances for one year to take up an appointment as Senior Research Associate in the Department of Engineering Science and Mechanics, The Pennsylvania State University, USA - Action of the Vice-Chancellor - Reporting of -
....

The Syndicate noted the action taken by the Vice-Chancellor in granting leave without allowances for a period of one year w.e.f. 22.9.1997 to 21.9.1998 to Dr. K.A. Jose, Lecturer, Department of Electronics to take up appointment as Senior Research Associate in the Department of Engineering Science and Mechanics, The Pennsylvania State University, USA considering the fact that two teachers of the Department of Electronics who are on leave would rejoin the Department on the expiry of the leave.

(Ad.D)

Item No. 390.15: Sri P.A. Abdul Basheer, U.D. Typist/Stenographer on Leave Without Allowances - Request for extension of the leave - Consideration of -
.....

The Syndicate considered, along with the recommendations of the Standing Committee on Staff and Establishment, the request of Sri P.A. Abdul Basheer, U.D. Typist/Stenographer who is on leave without allowances for taking up employment abroad, for extension of the L W A for a period of two more years with effect from 26.12.1997 to continue his foreign employment.

Resolved that Sri P.A. Abdul Basheer, U.D. Typist/Stenographer be granted extension of leave without allowance for a period of two more years with effect from 26.12.1997 for continuing foreign employment.

(Ad.A)

Item No. 390.16 : Regularisation of suspension period with eligible leave - Request of Dr. V.G. James, Lecturer, School of Legal Studies - Consideration of -

The Syndicate considered, along with the recommendations of the Standing Committees on Finance and Purchase and Staff and Establishment, the request of Dr. V.G. James to grant him full pay and allowances for regularising his suspension period from 10.3.93 to 6.9.1994, since he has been exonerated by the Syndicate from the charges levelled against him, and there is no sufficient leave at his credit for regularising the suspension period.

Resolved that the period of suspension of Dr. V.G. James be regularised by sanctioning leave without allowances as per existing rules. Dr. P. Leelakrishnan abstained from the meeting while this item was taken up.

(Ad.D)

Item No.390.17: Reduction of rent for guests who are the students of Cochin University of Science and Technology - Consideration of -

The Syndicate considered along with the recommendations of the Standing Committees on Finance and Purchase, and Academic Matters the representation received from the Hostel Secretary, Athulya Hostel about the rent paid by Cochin University students, staying as guests, in the ladies hostel.

Resolved that the students of the University who are sharing rooms with their classmates/friends may be allowed to do so with a rent @ Rs.5/- per day per guest. Those who are staying in the guest room be charged a sum of Rs.15/- per day.

(Ac.A.)

Item No.390.18: (1) Regularisation/Extension of provisional recognition granted to the Government Model Engineering College, Thrikkakara (2) Permission to offer MCA course at the Model Engineering College - Request of the Director, Institute of Human Resources Development for Electronics - Consideration of - Regarding -

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, (1) the matter of constituting a subcommittee of the Syndicate to evaluate the progress of the Model Engineering College, Thrikkakara for considering the extension of the period of recognition of the college, and, (2) the proposal of the Director, Institute of Human Resources Development for Electronics for starting M.C.A. course at the Model Engineering College, Thrikkakara.

Resolved that the Standing Committee on Academic Matters may examine these issues and report to the Syndicate.

(Ac.A.)

Item No.390.19: Provisional recognition granted to the Self-financing Engineering College, Chengannur-Extension/Regularisation of the recognition of the College - Constitution of a Sub Committee of the Syndicate - Consideration of-Regarding -

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the matter of constituting a sub-committee to visit the College of Engineering, Chengannur to evaluate the progress of the college to consider the matter of extension of the period of recognition granted to the college.

Resolved that the Standing Committee of the Syndicate on Academic Matters be authorised to study the matter and report to the Syndicate.

(Ac.A)

Item No.390.20 : Commuted leave for 39 days to Dr. N. Unnikrishnan Nair - Handing over to charges of the Department to Dr. V.K. Ramachandran Nair - Action taken by the Vice-Chancellor-Reporting of -

The Syndicate noted the action taken by the Vice-Chancellor in sanctioning commuted leave to Dr. N. Unnikrishnan Nair, Professor and Head, Department of Statistics for a period of 39 days w.e.f. 1.9.1997 to 9.10.1997 suffixing holidays on 10th 11th and 12th October 1997 to take up the appointment as Visiting Professor at the University of Waterloo, Canada to carry out research work, and to handover full additional charge (including financial charges) of the Department to Dr. V.K. Ramachandran Nair, the next senior most professor of the Department during his absence.

Resolved that the action taken by the Vice-Chancellor be ratified.

(Ad.D)

Item No.390.21: Dr. G.Ramamoorthy, Professional Assistant Grade I treating period of absence as eligible leave - consideration of-

The Syndicate considered, along with the recommendation of the Standing Committee on Staff and Establishment, the request of Dr. G. Ramamoorthy, Professional Assistant grade I to treat the period from 29.4.1997 to 10.6.1997 (the gap between the date he was relieved from Srce Sankaracharya University and his joining this University) as eligible leave.

Resolved that Dr. G. Ramamoorthy be granted leave without allowances for the period from 29.4.1997 to 10.6.1997.

(Ad.A)

Item No.390.22: Smt. J. Laila Beevi, Senior Grade Typist/Stenographer - Extension of the term of deputation to Kerala State Commission for Backward Classes - Reporting of-

The Syndicate noted the action taken by the Vice-Chancellor in sanctioning extension of the term of deputation of Smt. Laila Beevi, Senior Grade Typist/Stenographer of the University to the Kerala State Commission for Backward Classes, Thiruvananthapuram for one more year with effect from 1.8.1997.

Resolved that the action taken by the Vice-Chancellor be ratified.

(Ad.A)

Item No.390.23: Government Order on ad hoc bonus and special festival allowance 1996-97-Adopted for implementation - Reporting of.

The Syndicate noted the action taken by the Vice-Chancellor in adopting the G.O.(P)No.742/97/Fin.Dated, 30.8.1997 sanctioning ad hoc bonus and special festival allowance 1996-97 to State Government employees and pensioners for implementation in the University.

(Ad.A)

Item No.390.24: Grant of Onam Festival Advance 1997 to the officers of the University - Reporting of-

The Syndicate noted the action taken by the Vice-Chancellor in sanctioning Rs.1,500/- as Onam Festival Advance during the year 1997 to the officers of the University drawing basic pay less than Rs.3,500/- per month, considering the representation of the service organizations.

Resolved that the action taken by the Vice-Chancellor be ratified.

(Ad.A)

Item No.390.25: B.Tech Engineering courses - Readmission - Reporting of course work - Creation of additional seats - Clarification in payment of semester fees - Regarding-

The Syndicate considered, along with recommendations of the Standing Committees on Academic Matters and Finance and Purchases, the issues involved in permitting some of the students of the B.Tech. programmes of CUGSE to repeat their courses on various grounds, and also the requests of the following students of the CUGSE for repeating the course work along with the junior batches of students.

Sl.No.	Name of Student	Classes for which readmission is sought	Class to which re-admission is given
1.	Shibi. N.A.	III Semester (IT)	III Semester(IT)
2.	Akhilan O.R.	I Semester (IT)	I Semester (IT)
3.	Praseed Chandran K	III Semester(Mech)	III Semester (Mech.)
4.	Anwar Mohamed	III Semester (Mech)	III Semester (Mech.)

Resolved that the Vice-Chancellor be authorised to take appropriate decisions in the matter based on a report from the Dean, Faculty of Engineering on the genuineness of the case.

(CUGSE)

Item No.390.26: Applications for appointment under compassionate employment scheme - Consideration of -

The Syndicate considered, along with the recommendations of the Standing Committees on Staff and Establishment and Finance and Purchases, the applications of Ms. Minna Merlin Stanley (D/o. Late Smt. N. Malathy, Senior Grade Assistant in the University), and Sri Sunil George (S/o. Late Smt.T.J. Annie, Section Officer) have submitted their applications for employment assistance under the scheme for compassionate employment.

Resolved that Ms. Minna Merlin Stanley (D/o.Smt. N. Malathy, Senior Grade Assistant and Sri Sunil George (S/o Late Smt. T.J. Annie, Section Officer) be appointed in the University service as Assistant Grade II and Clerical Assistant respectively under the provisions of compassionate employment scheme.

(Ad.A)

Item No.390.27: Rewiring of Aiswarya Ladies Hostel as Thrikkakara Campus.

The Syndicate considered, along with the recommendations of the Standing Committee on works, the estimate amounting to Rs.2,82,500/- for the re-wiring of Aiswarya Ladies Hostel, based on the 1996 schedule of rates.

Resolved that the estimate amounting to Rs.2,82,500/- submitted by the University Engineer for the re-wiring of this connection may be met from "2-Non Plan-79-0-Works-T-4-Others-999-Minor Works" provided in the current year's budget of the University.

(Pl.A.)

Item No.390.28: Dr. K.P. Rajappan Nair, Department of Physics- Travelling to Berlin - Shipment of equipments - TA & DA enhancement - Regarding -

The Syndicate considered, along with the recommendations of the Standing Committee on Finance and Purchase, the request of Dr. K.P. Rajappan Nair, Professor, Department of Physics to enhance the amount of travelling expenses (sanctioned to him vide Syndicate decision 375.69) from Rs.35,000/- to Rs.42,000/- and also to sanction DA as per rules for three weeks for his trip to Berlin for arranging shipment of the equipments gifted by the Berlin Freie University to the Cochin University of Science and Technology.

: 12 :

Resolved that Dr. K.P. Rajappan Nair, Professor, Department of Physics be granted enhancement of travel expenses from Rs.35,000/- to Rs.42,000/- for his journey to Berlin and his request for DA as per rules for three weeks be declined.

(Pl.A)

Item No.390.29: Granting of medical reimbursement benefits for treatment undergone in clinics/branches/agencies for Ayurvedic/Homoeopathic/Allopathic hospitals/Oushadasalas etc. -Reg.

The Syndicate considered along with the recommendations of the Standing Committees on Finance and Purchase and Staff and Establishment, the proposal for recognising some more allopathic/ayurvedic/homeopathic hospitals/dispensaries/clinics/branches/agencies which do not come under the list of institutions already approved by the University.

Resolved that the following 15 medical institutions/treatment centres also be recognised for reimbursement of medical expenses, in addition to the institutions already approved by the University for the purpose.

1. Community Health Centres in Kerala (run by the Social Welfare Department of Kerala Government)
2. Devi Nursing Home, Palakkad.
3. Dr. Puthurayalil Clinic, Market Road, Kochi-11.
4. Jo-Ans-Medical Centre, Edappally Toll Junction.
5. Morning Star Medical Centre, Adimally
6. Sangamam Health Complex, Peyoli Road, Kacheripady, Kochi-18.
7. Sevanam Clinic, Vazhakkala, Kakkanad
8. C.K.K.M. Pharmaceuticals, Tripunithura
9. Muvattupuzha Medical Centre
10. Parathuvayalil Pharmacy, Ernakulam Branch
11. Denta Speciality Centre, South Kalamassery
12. Futhusseril Dental Clinic
13. Medical Mission, Thiruvalla
14. Varapuzha Medical Centre
15. Sree, Sudheendra Medical Mission, Ernakulam.

(Ad.B)

Item No.390.30: Appointment of single clearing agent for the University- Regarding-

The Syndicate considered, along with the recommendations of the Standing Committee on Finance and Purchase, the proposal of appointment of a single clearing agent for the University.

: 13 :

Resolved that M/s. Interfreight Services Private Limited, Nima Cold Storage Building, G.V. Iyer Road, Willingdon Island, Kochi-3 be appointed as University's Customs Clearing Agent for a period of two years as per the terms and conditions mentioned in Appendix I, for a period of two years.

(Pl.A)

Item No.390.31 Purchase of laboratory furniture for the multi-storeyed building of the School of Marine - Sciences.

The Syndicate noted the action taken by the Vice-Chancellor in according sanction to the Director, School of Marine Sciences, to purchase the furniture at a total cost of Rs.26,50,928/- at the rate reduced in view of the discussion and assessment by the University Engineer (as decided by the Syndicate vide Item No.383.46), and to draw an amount of Rs.13,25,464/- as advance as 50% of the total cost for effecting the purchase.

Resolved that the action taken by the Vice-Chancellor be ratified.

(Ad.C)

Item No.390.32 Construction of II Floor (extension) on the Physical Science Building - Regarding.

The Syndicate considered, along with the recommendations of the Standing Committee on Works, the proposal of the University Engineer for construction of II Floor (extension) on the Physical Science Building to provide additional facilities for 2 office rooms (in ground floor and I Floor) and 3 staff rooms, 3 class rooms, laboratories and 1 chemical room in II Floor, and the estimate amounting to Rs.20 lakhs based on 1996 schedule of rates, for a total plinth area of 719 m².

Resolved that the estimate amounting to Rs.20 lakhs submitted by the University Engineer for construction of the II Floor (extension) of the Physical Science Building be approved.

(Pl.A)

Item No.390.33 Inclusion/exclusion of study tour for M.Sc. course - Consideration of.

The Syndicate considered, along with the recommendations of the Standing Committees on Academic Matters and Finance and Purchase, the matter of inclusion/exclusion of study tours as a part of curriculum of the course based on the recommendations of the Chairman, Boards of Studies of various subjects.

Resolved that the decisions taken by the respective Boards of Studies on the inclusion/exclusion of study tour as a part of the curriculum of the course be accepted and implemented. Further resolved that necessary guidelines be framed for collection of fee for study tours.

(Ac.A)

Item No.390.34 Permission for continued occupation in family unit - Request of Smt.R.Gopikakumari, Lecturer, Department of Electronics - Regarding.

The Syndicate considered, along with the recommendations of the Standing Committees on Finance and Purchase, and Staff and Establishment, the request of Smt.R.Gopikakumari, Lecturer, Department of Electronics for continued occupation in family unit upto June 1998 as she is doing research work and has to work upto 12 O' Clock in the night, and her shifting to the University Quarters, at this juncture will cause security problems to her.

Resolved that Smt.R.Gopikakumari be permitted to continue occupation in family unit till June 1998 on condition that she will pay rent for both (quarters and family unit) besides deduction of HRA from her salary.

(Ad.E)

Item No.390.35 Reconstitution of Review and Steering Committee constituted for MHO Programme - Report to Syndicate.

The Syndicate noted the action taken by the Vice-Chancellor in reconstituting the Review and Steering Committee for the MHO Programme with the following members, vide U.O. No.PL(UGC)2/7277/925 dated 26-11-1997.

1. Vice-Chancellor (Chairman)
2. Pro-Vice-Chancellor
3. Hon. Director, CEMCOP, CUSAT
4. Hon. Director, CEMCOP, CUSAT (Secretary/Convenor)
5. Programme Co-ordinator, CEMCOP, CUSAT
6. Registrar
7. Finance Officer
8. Dr.K.G.Nair (Project Co-ordinator)
9. Dr.K.Poulose Jacob (Project Co-ordinator)
10. Dr.K.C.Sankaranarayanan (Project Co-ordinator)
11. Dr.C.P.Girijavallabhan (Project Co-ordinator)
12. Dr.A.Mohandas (Project Co-ordinator)
13. Dr.N.R.Menon (Project Co-ordinator)
14. Dr.A.P.Kuriakose (Project Co-ordinator)
15. Planning and Development Officer

Resolved that the action taken by the Vice-Chancellor be ratified.

(PL.UGC)

Item No.390.36. Ph.D. thesis entitled "Lipase production by Candido Ragosa" submitted by Sri.Silas Benjamin - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered the individual reports of the examiners, recommendations of the viva board and the minutes of the viva-voce examination in respect of the Ph.D. thesis submitted by Sri.Silas Benjamin, Part time research student, Regional Research Laboratory, Thiruvananthapuram who worked under the guidance of Dr.Ashok Pandey, Scientist, Regional - Research Laboratory, Thiruvananthapuram.

Resolved that Sri.Silas Benjamin be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Science for his thesis "Lipase production by - Candido Ragosa".

(Exam.)

Item No.390.37 Ph.D. thesis entitled "Molecular Breakdown of Different Forms of Natural Rubber and its influence on Properties of their mixes and Vulcanizates" submitted by Sri.Thomas. K.T. - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered the individual reports of the examiners, together with the consolidated report of the Chairman, Board of Examiners and the minutes of the viva-voce examination in respect of the Ph.D. thesis submitted by Sri.Thomas. K.T., Part time research student, Rubber Research Institute of India, Kottayam who worked under the guidance of Dr.N.M.Mathew, Director, Rubber Research Institute of India, Kottayam.

Resolved that Sri.Thomas. K.T., be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Technology for his thesis "Molecular Breakdown of Different Forms of Natural Rubber and its Influence on Properties of their mixes and Vulcanizates".

(Exam.)

Item No.390.38 B.Tech. course in Engineering at the Government Model Engineering College, Thrikkakara - Enhancement of seats sanctioned by the Government - Request of the Director, Institute of Human Resources Development for Electronics for approval - Consideration of - Regarding.

The Syndicate considered, along with the recommendations of the Standing Committee on Academic Matters, the request of the Director, Institute of Human Resources Development for Electronics (IHRDE) for approval of the enhancement of seats in the Model Engineering College, Thrikkakara from 40 to 60 for the two branches i.e., Computer Engineering and Electronics Engineering, for the year 1997-98 as sanctioned by Government vide G.O. No.(MS)No.98/97/H.Edn. dated 29-7-1997.

Resolved that the request of the Director, Institute of Human Resources Development for Electronics to approve the enhancement of seats for two branches i.e., Computer Engineering and Electronics Engineering from 40 to 60 in the Model - Engineering College, Thrikkakara, for the year 1997-98 be granted.

(Ac.A)

Item No.390.39 Request of Sri.M.V.Aravindakshan and Sri.P.N.Sivadas, Duplicator Operators for the scale of pay of Rs.1350-2200.

The Syndicate considered, along with the recommendations of the Standing Committees on Staff and Establishment and Finance and Purchase, the request of Sri.M.V.Aravindakshan and Sri.P.N.Sivadas, Duplicator Operators to grant them the scale of pay of Rs.1350-2200, and also to include the post of Duplicator Operator in Technical Cadre.

Resolved that Sri.M.V.Aravindakshan and Sri.P.N.Sivadas, Duplicator Operators be granted the scale of pay of Rs.1050-1660 with effect from 24-1-1998.

(Ad.A)

Item No.390.40 Reconstitution of Bus Committee.

The Syndicate considered the matter of reconstituting the Bus Committee with members from the newly reconstituted Staff Council.

Resolved that the Vice-Chancellor be authorised to reconstitute the Bus Committee with members from the newly reconstituted Staff Council.

(General Services)

Item No.390.41 Condonation of shortage of attendance - Uniform pattern to all courses - Consideration of.

The Syndicate considered, along with the recommendations of the Standing Committee on Academic Matters, the proposal for bringing a uniform pattern with regard to the rules for condonation of attendance, for all the courses of the University.

Resolved that the procedure followed with regard to condonation of attendance in B.Tech. courses be made applicable to all courses of the University, and the matter be placed in the next Academic Council for implementation.

(Ac.A)

Item No.390.42 Vacating of Residential Family Type Quarters after drawal of House Building Advance - Regarding.

The Syndicate considered, along with the recommendations of the Standing Committees on Finance and Purchase, and Staff and Establishment, the request of Sri. S. Navaneethan, Office Superintendent, University Administrative Office, to amend Rule 12(xi) of the Quarters Allotment Rules (now in force) which states that "occupants of University Quarters who have drawn house building advance from the University shall vacate the University Quarters within 18 months from the drawal of the first instalment of such advance even if the house constructed by such employees be within 15 kms. from the University headquarters or not" so as to enable the employees who are occupants of University quarters and availing HBA can continue to occupy the quarters for a period of one year from the date of disbursement of the last instalment of the loan.

Resolved that no amendment be made to the Quarters Allotment Rules which are now in force in the University. Further resolved that Sri. S. Navaneethan, Office Superintendent, may be permitted to stay in the University Quarters upto the end of February 1998 by collecting normal rent (7% of the basic pay) only, as a special case.

(Ad.E)

Item No.390.43 Smt. Sane Devi, Office Superintendent-Request for the grant of Leave Without Allowances - Consideration of.

The Syndicate considered along with the recommendations of the Standing Committee on Staff and Establishment, the request of Smt. K. Sane Devi, Office Superintendent, Administrative Office, to grant Leave without Allowances for three months from 31.9.1997 to 31.12.1997 for personal reasons.

Resolved that Smt. K. Sane Devi, Office Superintendent, Administrative Office, be granted Leave Without Allowances for a period of three months from 31.9.1997 to 31.12.1997.

(Ad.A)

Item No.390.44 was deferred for consideration

Item No.390.45 Sri. E.A.Abdu, Overseer Grade II (Civil) - Leave Without Allowances - Request for the extension of the term - consideration of.

The Syndicate considered, along with the recommendations of the Standing Committee on Staff and Establishment, the request of Sri. E.A. Abdu, Overseer Grade II (Civil), Engineering Department for extension of Leave Without Allowances granted to him for a further period of 5 years with effect from 11.1.1998 to continue his employment abroad.

:18:

Resolved that Sri. E.A. Abdu, Overseer Grade II (Civil), Engineering Department be granted extension of Leave Without Allowances for a further period of 5 years with effect from 11.1.1998 to continue his employment abroad.

(Ad.A)

Item No.390.46 Appointment of Lecturers on contract basis - Higher remuneration recommended by the Selection Committees - Consideration of - Regarding.

The Syndicate considered, along with the recommendations of the Standing Committees on Finance and Purchase, and Staff and Establishment, the matter of enhancement of the consolidated salary in respect of contract appointee Lecturers on the basis of the recommendations made by the Selection Committees.

Resolved that the consolidated salary in respect of Lecturers appointed on contract basis who have Ph.D. be enhanced by an amount of Rs.150/- (equal to 2 increments) and those who have M.Tech. Degree be enhanced by Rs.75/-(equal to one increment) with effect from the date of contract

(Ad.D)

Item No.390.47 Department of Computer Applications - Computer software for MCA.

The Syndicate considered, along with the recommendations of the Standing Committee on Finance and Purchase, the clarifications furnished by the Head, Department of Computer Applications in response to the Syndicate decisions vide item No.387.16 regarding his requests to purchase an Advanced Relation Data Base Management System for the MCA students.

Resolved that quotations be insisted upon for purchase of the RDBMS software proposed by the Head of the Department of Computer Applications.

(Ad.C)

Item No.390.48 Economy in expenditure - Compliance of orders and instructions issued by the Government - Regarding.

The Syndicate noted the G.O.(P)No.746/97/Fin.
Dated 1.9.1997 regarding economy measures for compliance.

(Fin.)

:19:

Item No.390.49 Revision of common fees applicable to all courses and Ph.D. programme - Revision of stationery fee - Stay Order - Reporting of.

This item was deferred for discussions with students.

(Ac.A)

Item No.390.50 Academic support and affiliation for a college of Engineering and Management at Muscat - Regarding.

The Syndicate considered, along with the recommendations of the Standing Committees on Finance and Purchase, and Academic Matters, the proposal of the Baraka Economic Consultancy, Sultanate of Oman regarding the academic support and affiliation for a college of Engineering and Management of Muscat.

Resolved that the Vice-Chancellor be authorised to negotiate with the organisation and take appropriate action in the matter.

(IRAA Unit)

Item No.390.51 Sanction for acquiring - CAMPUS WIDE FIBRE OPTIC BACKBONE under the CUSAT MFO Project INFOCUS - Regarding.

The Syndicate noted the action taken by the Vice-Chancellor in approving the proposal submitted by Dr.C.S. Sridhar, Director, Centre for MHO Co-operation vide letter dated 12.12.1997 to entrust the work of "infrastructure for INFOCUS comprising a campus wide computer network" to M/s.HCL Comnet Systems and Services Ltd., A-10, 11, Sector-III, Noida 201301, at a total cost of Rs.43,14,807/-(Rupees fortythree lakhs fourteen thousand eight Hundred and seven only) as per the terms and conditions detailed in the Appendix II, and sanctioning payment of 50% of the quoted amount as advance to M/s. HCL Comnet Systems and Services Ltd., Noida.

Resolved that the action taken by the Vice-Chancellor be ratified.

(PL UGC)

Item No.390.52 Purchase of 4000 bags of cement for construction works in the University Campus.

The Syndicate considered, along with the recommendations of the Standing Committee on Works, the request of the University Engineer for the purchase of 4000 bags of cement from M/s.Malabar Cements, Walayar to meet the urgent requirements for construction work.

Resolved that the request of the University Engineer to sanction purchase of 4000 bags of cement for construction works at a total cost of Rs.6,60,000/- (at the rate of Rs.165/-per bag) plus unloading charges Rs.10,000/-(at the cost of Rs.2.50 per bag) from M/s.Malabar Cements, Walayar be approved.

Also resolved that the amount of Rs.6,70,000/- debiting to the head of account "2-94-0-T-Works-375-CUGSE Main Building Complex" be advanced to the University Engineer for effecting the purchase.

(PL.A)

Item No.390.53. Appointment of Architects for 4 Major works in the Cochin University Campus, Thrikkakara - Regarding.

This item was deferred for consideration in the next meeting for want of detailed/full note.

Item No.390.54 Release of grant-in-aid to STIC (Sophisticated Test and Instrumentation Centre) - IInd/Final instalment - Reg.

The Syndicate considered, along with the recommendations of the Standing Committee on Works, the request of the Director, Sophisticated Test Instrumentation Centre to release the balance 50% of funds amounting to Rs.10 lakhs (Rupees Ten lakhs only) to Sophisticated Test Instrumentation Centre and the matter of making additional provision in the current year's budget.

Resolved that the amount of Rs.10 lakhs (balance 50% of funds amounting) allocated to Sophisticated Test Instrumentation Centre be released.

(PL.A)

Item No.390.55 Construction of I Floor over the ground floor of Biotechnology building - reg.

The Syndicate considered, along with the recommendations of the Standing Committee on Works, the plan and estimate Amounting to Rs.19,50,000/- based on 1996 schedule of rates submitted by the University Engineer for construction of the first floor over the ground floor of Biotechnology Buildings and proposal to award the work to Shri M.I.Mohammed, who has quoted the lowest rate..

Resolved that -

1. The action taken by the Vice-Chancellor in publishing the tender notification on the matter be ratified.

2. The plan and estimate amounting to Rs.19,50,000/- for construction of the first floor for the Biotechnology Building be approved.
3. The work may be awarded to Sri. M.I.Mohammed, Manath House, Kochi-21 at 39.42% above the PAC of Rs.17,46,277/- with the Departmental supply of materials worth Rs.2,19,570/-

(PL.A)

Item No.390.56 Supply, erection, testing and commissioning of 250 KVA DG set in the Lakeside campus.

The Syndicate considered, along with the recommendations of the Standing Committee on Works, the proposal of the University Engineer to instal a 250 KVA Diesel Generator Set for the Multi-storeyed building in the Lakeside Campus in order to ensure uninterrupted flow of electrical current.

Resolved that open tenders be invited for the work.

(PL.A)

Item No.390.57 was deferred.

Item No.390.58 USIC - Construction of First Floor over the existing building - reg.

The Syndicate considered, along with the recommendations of the Standing Committee on Works, the proposal of the University Engineer to award the work of construction of first floor over the existing building of University Science Instrumentation Centre.

Resolved that the proposal of the University Engineer to award the work of construction of first floor over the existing building of University Science Instrumentation Centre to Sri. K.V.Peter, Kottappurath House, Maradu P.O. at his quoted rate of 58.9% above PAC of Rs.7,65,208/- and with the departmental supply worth Rs.1,42,480/- the total expenditure being Rs.11.31.995/- (Rupees Eleven lakhs thirty one thousand nine hundred and ninety five only) be approved.

Further resolved that the expenditure on this account may be met from "1-97-0-T-1-001-USIC-Extension Additional space for New Courses".

(PL.A)

Item No.390.59 Excess interest paid on Certificate Deposits by SBT, Thrikkakara - withdrawn - Reg.

This item was deferred for ratification.

Item No.390.60 Requests from Sri.V. Vasudevan, Deputy Registrar (on LWA) and Smt. V. Chandrika, Joint Registrar (Exams.)--Consideration of--

The Syndicate considered, the request from Sri. V. Vasudevan, Deputy Registrar (who was granted LWA to take up another employment) and Smt. V. Chandrika, Joint Registrar (Exams) to implement the decision of the Supreme Court of India allowing the Civil Appeal Petition No.2224 of 1985 filed by Sri. V. Vasudevan and University Appeal No.2223 of 1985, and to grant them service benefits by suitably modifying the present position of Smt. N.S.Kunjoonjamma.

Resolved that the decision of the Supreme Court be implemented after getting legal opinion from the Standing Counsel of the University.

(Ad.A)

Item Nos.390.61 to 390.64 were deferred.

Item No.390.65 Ph.D. thesis entitled "Meteorological Aspects of the Environment of Cochin" submitted by Smt. Bindu, G. - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered the Individual reports of the examiners, recommendations of the viva board and the minutes of the viva-voce examination in respect of the Ph.D. Thesis submitted by Smt. Bindu, G., Full time research student, Department of Atmospheric Sciences, Cochin University of Science and Technology, who worked under the guidance of Dr.K.G. Anilkumar, Department of Meteorology and Atmospheric Sciences, Cochin University of Science and Technology, Kochi-16.

Resolved that Smt. Bindu, G. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Marine Sciences for her thesis "Meteorological Aspects of the Environment of Cochin".

(Exam.)

Item No.390.66 Ph.D. thesis entitled "Water Relations and Gas Exchange in Acacia Auriculiformis under Experimental and Natural Conditions" submitted by Sri Somen, C.K. - Evaluation reports and minutes of viva-voce examination - consideration of.

The Syndicate considered the individual reports of the examiners, recommendations of the viva board and the minutes of the viva-voce examination in respect of the Ph.D. thesis submitted by Sri. Somen, C.K., Part time research student,

Kerala Forest Research Institute, Peechi who worked under the guidance of Dr. Jose Kallarackal, Scientist-in-charge, Kerala Forest Research Institute, Peechi.

Resolved that Sri. Somen, C.K. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Environmental Studies for his thesis Water Relations and Gas Exchange in Acacia Auriculiformis under Experimental and Natural Conditions.

(Exam.)

Item No.390.67 Ph.D. thesis entitled "Optical Emission Diagnostics of Laser Produced Plasma from Graphite and Y2 Ba2 Cu3 O7" submitted by Sri. Harilal, S.S. - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered the individual reports of the examiners, recommendations of the viva board and the minutes of the viva-voce examination in respect of the Ph.D. thesis submitted by Sri. Harilal, S.S., Full time research student, International School of Photonics, Cochin University of Science and Technology, Kochi-22, who worked under the guidance of Dr. C.F. Girijavallabhan, Professor and Head, International School of Photonics, Cochin University of Science and Technology, Kochi-22.

Resolved that Sri. Harilal, S.S. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Science for his thesis "Optical Emission Diagnostics of Laser Produced Plasma from Graphite and Y2 Ba2 Cu3 O7".

(Exam.)

Item No.390.68 Ph.D. thesis entitled "Studies on Some New Transition Metal Complexes of the Schiff Bases Derived from Quinoxaline-2-Carboxaldehyde" submitted by Smt. Mayadevi, S. - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered the individual reports of the examiners, recommendations of the viva board and the minutes of the viva-voce examination in respect of the Ph.D. thesis submitted by Smt. Mayadevi, S., Full time research student, Department of Applied Chemistry, Cochin University of Science and Technology, Kochi-22, who worked under the guidance of Dr. K.K. Mohammed Yusuff, Professor, Department of Applied Chemistry, Cochin University of Science and Technology, Kochi-22.

Resolved that Smt. Mayadevi, S. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Science for her thesis "Studies on Some New Transition Metal Complexes of the Schiff Bases Derived from Quinoxaline-2-Carboxaldehyde".

(Exam.)

Item No.390.69 Ph.D. thesis entitled "Biology, Population Characteristics and Fishery of the Speckled Shrimp *Metapenaeus*, *Monoceros* (Fabricius, 1798) along the Kerala Coast" submitted by Sri. G. Nandakumar - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered the individual reports of the examiners, recommendations of the viva board and the minutes of the viva-voce examination in respect of the Ph.D. thesis submitted by Sri. G. Nandakumar, Part time research student, Department of Marine Biology, School of Marine Sciences, Cochin University of Science and Technology, Kochi-16, who worked under the guidance of Dr. R. Damodaran, Professor, Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, Cochin University of Science and Technology, Kochi-16.

Resolved that Sri. G. Nandakumar be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Marine Sciences for his thesis "Biology, Population Characteristics and Fishery of the Speckled Shrimp *Metapenaeus Monoceros* (Fabricius, 1798) along the Kerala Coast".

(Exam.)

Item No.390.70 Ph.D. thesis entitled "Capital Expenditure Decision in Private and Public Sector Enterprises in India" submitted by Sri. Jose, K.C. - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered the individual reports of the examiners and the minutes of the viva-voce examination in respect of the Ph.D. thesis submitted by Sri. Jose, E.C., part time research student, School of Management Studies, Cochin University of Science and Technology, Kochi-22, who worked under the guidance of Dr. K.C. Sankaranarayanan, Professor and Head, Department of Applied Economics, Cochin University of Science and Technology, Kochi-22.

Resolved that Sri. Jose, E.C. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Social Sciences for his thesis "Capital Expenditure Decision in Private and Public Sector Enterprises in India".

(Exam.)

Item No.390.71 Ph.D. thesis entitled "Impact of Trade Unionism on the Industrial Development of Kerala - A Study with reference to Small Scale Industries in Kerala" submitted by Sri. Thampy, M.M. - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered the individual reports of the examiners, together with the consolidated report of the Chairman, Board of Examiners and the minutes of the viva-voce examination in respect of the Ph.D. thesis submitted by Sri. Thampy, M.M., Part time research student, Department of Applied Economics, Cochin University of Science and Technology, Kochi-22, who worked under the guidance of Dr. K.K. George, Professor, School of Management Studies, Cochin University of Science and Technology, Kochi-22.

Resolved that Sri. Thampy, M.M. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Social Sciences for his thesis "Impact of Trade Unionism on the Industrial Development of Kerala - A Study with reference to Small Scale Industries in Kerala".

Item No.390.72 Ph.D. thesis entitled "Fabrication of Cu In Sc_2/Cd_3 Thin Film Solar Cells by Chemical Bath Deposition Technique and Characterization" submitted by Sri. Vidyadharan Pillai, P.K. - Evaluation reports and minutes of viva-voce examination - Consideration of.

The Syndicate considered the individual reports of the examiners, recommendations of the viva-board and the minutes of the viva-voce examination in respect of the Ph.D. thesis submitted by Sri. Vidyadharan Pillai, P.K., Part time research student, Department of Physics, Cochin University of Science and Technology, Kochi-22, who worked under the guidance of Dr. K.P. Vijayakumar, Professor, Department of Physics, Cochin University of Science and Technology, Kochi-22.

Resolved that Sri. Vidyadharan Pillai, P.K. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Science for his thesis "Fabrication of Cu In Sc_2/Cd_3 Thin Film Solar Cells by Chemical Bath Deposition Technique and Characterization".

(Exam.)

Item No.390.73 was deferred.

The meeting came to an end at 3 p.m.

Kochi-22,
17-4-98.

REGISTRAR

Appendix - I - to Item No.390.30

A. Clearing Charges (Rate/Tariff)

1. Service charges/Agency fee : 0.15% of CIF value with a minimum of Rs.500/- per Bill of Entry.
2. Charges for loading the packages from Air Cargo Complex/Wharf transit sheds : Rs.25/- per package with a minimum of Rs.32/- per M.T.
3. Incidental Expenses : Rs.200/- per Bill of Entry
4. Transportation charges of the packages for Air Cargo Complex/Wharf transit sheds to Kalamasserry. : Rs.100/- per package with a minimum of Rs.480/- per tempo/car.
5. Transportation charges of the packages from Air Cargo Complex/Wharf transit sheds to Ernakulam oil tanker jetty (i.e. Marine Science Campus of CUSAT) : Rs.60/- per package with a minimum of Rs.350/- per tempo/car.
6. Charges for collection of documents : Free
7. Custom duty, Interest on duty; Port dues, charges payable to KSIE, Sea/Air freight charges payable to carriers/their Agents, survey fee if any and all such other statutory charges. : All actuals supported by vouchers

The Clearing Agent shall arrange to clear the consignments within seven days time from date of receipt of complete documents from the University.

- B. 1. This agreement is terminable with one months notice from either side.
2. When consignments are cleared for more than one department (including those located at Marine Science Campus) at a time, transportation charges, loading and unloading charges etc. will be charged, treating all as one single consignment (i.e. no duplication in transportation charges etc. (will be levied from the University).

mn.

Appendix - II - to Item No.390.51

Terms & Conditions

1. Prices calculated at US Dollar at Rs.38.5
2. For items imported and cleared without customs duty 'Customs duty exemption Certificate' to be provided by CUSAT.
3. The prices quoted includes freight, clearing charges for all items.
4. Local taxes if applicable will be charged extra.
5. The prices quoted above is based on
*Shipment of Active Components by Air.
*Shipment of Gables by Sea.
6. Payment terms : 50% advance along with the order.
40% against delivery
10% after installation.
7. Warranty : One year for Active Components

mn.