

388

CONFIRMED

MINUTES OF THE 388TH MEETING OF THE SYNDICATE HELD
ON 4-10-1997

Place of meeting : Administrative Buildings,
Kochi - 682 022.

Time : 11 a.m.

Members present:

1. Dr. K. Babu Joseph
Vice-Chancellor. (in the Chair)
2. Sri. T.A. Ahmed Kabir
3. Sri. M.A. Thomas, MLA
4. Dr. P. Leelakrishnan
5. Dr. M. Shahul Hameed
6. Dr. K.G. Nair
7. Sri. K.K. Gopalakrishnan
8. Sri. P.N. Prasanna Kumar
9. Dr. A. Mohandas

Also present:

Dr. K.G. Balakrishnan
Registrar.

"It is resolved that the Syndicate Meetings will be held on every third Saturday of the month and the Standing Committees on the previous Thursdays and Fridays from November 1997 onwards".

The agenda items were then taken up.

Item No.388.01 : Report of action taken upon the decisions of the minutes of the Syndicate meeting held on 10-4-1997 (380th).

The Syndicate noted the report of action taken upon the decisions of the minutes of the Syndicate meeting held on 10-4-1997.

Item No.388.02 : Confirmation of the minutes of the meeting of the Syndicate held on 6-9-1997 and 25-9-1997 (387th).

(1) In item No.387.03, the decision may be modified as follows:

Contd.....2.

"The Chairman then intimated the Syndicate that there is a proposal to start the following courses:

1. B.Tech in Marine Engineering
2. P.G. Diploma in Pharmaceutical Engineering

Resolved that in order to prepare the proposals and other matters Sri. K.J. James, Reader, Department of Ship Technology and Dr. P. Madhavan Pillai, Head, Department of Applied Chemistry be appointed as Co-ordinators of these courses respectively".

(2) The third, fourth and fifth paragraphs on page 5 of the minutes relate to a separate decision and hence it has to be recorded separately as item No.387.07A, as follows:

"Item No.387.07A : Construction of one more floor above Engineering Sciences Block III.

On the recommendation of the University Engineer and on the basis of the negotiations made by the Works Committee on 6-9-1997, the Syndicate resolved to award the work of construction of one more floor above the Engineering Sciences Block III to the same contractor (who has carried out the work of the first floor) at 72% above the estimate cost (1996 schedule of rates).

Further resolved that this newly constructed building be set apart for the use of CUGSE and the cost of construction be realised provisionally from the amount provided for the self financing courses".

(3) In item No.387.23, the draft rule No.1 be replaced with the following:

"The name of the endowment shall be The Kanichai Thomas Jose Endowment".

At the end of the draft rule No.3 the words "entitled Kanichai Thomas Jose Award" be added.

The words "final semester" in the draft rule No.4 be deleted.

(4) In item No.387.39 the rule No.1 in the resolution be replaced with the following:

"1. The endowment shall be called as K.C. Menon Memorial Endowment".

At the end of the draft rule No.4 in the resolution the words "which will be entitled K.C. Menon Memorial Award" be added.

Contd...3.

(5) The item outside the agenda No.387.54 be renumbered as 387.62.

(a) "It is resolved that at least once in a year The Sub Committee of the Syndicate on Staff & Establishment shall scrutinise the rosters regarding appointment of teachers and non-teaching employees of the University, and present a report to the Syndicate. The present status of the rosters be examined before the next meeting of the Syndicate".

(b) The Vice-Chancellor then briefed the situation regarding the construction and handing over of the MCA building.

The Syndicate reiterated that the earlier Syndicate decision in this regard must be implemented in toto.

(c) The issue regarding additional chances to LL.B students of the University was raised.

It was resolved that the general rule regarding the restriction of number of chances as 3 in all examinations in the University need not be made applicable for the LL.B. examinations which are still an yearly examination.

The Syndicate again reiterated that the services of the following teachers who have unauthorisedly absented from duty in various teaching Departments of the University shall be terminated immediately after giving due notice through newspaper media and the work in this connection should be implemented within a fortnight.

- (1) Dr. S.K. Pyarilal, Lecturer, Dept. of Ship Technology.
- (2) Sri. Hareendra Varma, Lecturer, " "
- (3) Sri. T.N. Gopalakrishnan, Lecturer, " "
- (4) Sri. Ajithkumar, Lecturer, Dept. of Computer Science.

Item No.388.03 : Report of the Vice-Chancellor on important developments in the University since last meeting.

1. The Department of Science and Technology vide order No.SP/s2/1-11/95 dated 18-9-1997 has sanctioned an amount of Rs.28,41,319.00 for the project entitled "Laser Applications in High Resolution Molecular Spectroscopy and Thin Film Analysis" under the guidance of Dr. K.P. Rajappan Nair, Professor, Department of Physics.

2. The AICTE has sanctioned an amount of Rs.5 lakhs to Dr. C.K. Anandan, Lecturer, Department of Electronics for the "Establishment of a Centre for Advanced Research and Training in Microwave Integrated Circuits for Satellite Communication Applications".

Contd.....4.

The Syndicate placed on record its appreciation to these teachers who have contributed substantially for the development of research work by bringing these projects and resolve to send letters of appreciation to them.

Item No.388.04 : Senate meeting to be held on 15-10-1997 - Questions asked by the members of the Senate and answers thereto by the Syndicate - Consideration of.

The Syndicate considered the draft answers to the questions to be answered on the floor of the Senate scheduled for 15-10-1997 and the proposal for assigning questions among the members of the Syndicate for answering supplementaries.

Resolved that the answers to the questions asked by the members of the Senate be approved and answered on the floor of the Senate and the questions and answers were allotted to the members.

The Syndicate considered the exception to the minutes of the meeting of the Senate held on 16-6-1997 taken by Dr. K.N. Chandrasekharan Pillai, Member of the Senate and resolved that the following corrections to the said minutes of the Senate be approved and same be placed before the ensuing meeting of the Senate for confirmation:

At the end of the discussion of the resolution moved by Dr. K.N. Chandrasekharan Pillai the following be added between the paragraphs beginning with "The Pro-Vice-Chancellor" and "After a detailed discussion", on page 15 of the minutes.

"After discussions the resolution was adopted".

(Conf.)

Item No.388.10 : Ph.D. thesis entitled "The Press Council--An Experiment in Guarding Free Speech" submitted by Sri. M. Sebastian Paul - 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. M. Sebastian Paul, Part Time Research student, School of Legal Studies, Cochin University of Science and Technology, Kochi-22, who worked under the guidance of Prof. V.D. Sebastian.

Resolved that Sri. M. Sebastian Paul be declared eligible for the award of the Degree of Doctor of Philosophy

Contd....5.

under the Faculty of Law for his thesis "The Press Council--An Experiment in Guarding Free Speech".

(Exams.)

Item No.388.11 : Ph.D. thesis entitled "Studies in Oleoresins (An Investigation into Food Colour from Indian Chilli Oleoresin)" submitted by Sri. Balakrishnan, K.V. - 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. Balakrishnan K.V., Part Time Research Student, Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Kochi-22, who worked under the guidance of Dr. K.E. George, Reader, Department of Polymer Science and Rubber Technology.

Resolved that Sri. Balakrishnan, K.V. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Technology for his thesis "Studies in Oleoresins (An Investigation into Food Colour from Indian Chilli Oleoresin)".

Item No.388.19 : University teachers - Declaration of probation in the post of Professor - Dr. Poullose Jacob, Dr. K. Vasudevan and Dr. V.K. Ramachandran Nair, Professors in the Department of Computer Science, Department of Electronics and Department of Statistics respectively - Consideration of - Reg.

The Syndicate considered along with the recommendations of the Standing Committees on Finance and Purchase, Staff and Establishment and Academic Matters the request from Dr. Poullose Jacob, Professor, Department of Computer Science, Dr. K. Vasudevan, Professor, Department of Electronics and Dr. V.K. Ramachandran Nair, Professor, Department of Statistics for declaration of their probation in the post of Professor.

Resolved that the probation of Dr. Poullose Jacob, Professor, Department of Computer Science, Dr. K. Vasudevan, Professor, Department of Electronics and Dr. V.K. Ramachandran Nair, Professor, Department of Statistics be declared as satisfactorily completed w.e.f. 6-2-1995 F.N., 6-2-1996 F.N. and 21-5-1997 F.N. respectively.

(Ad.D)

Contd....6.

Item No.388.26 : Norms promotion to Dr. E.M. Somasekharan Nair, Reader as Professor by upgradation - Consideration of.

The Syndicate considered along with the recommendations of the Standing Committees on Finance and Purchase, Staff and Establishment and Academic Matters, the request of Dr. E.M. Somasekharan Nair, Reader and Head, Department of Ship Technology for promotion as Professor under norms promotion scheme.

Resolved that Dr. E.M. Somasekharan Nair be granted promotion as Professor by upgrading the post of Reader held by him in the Department of Ship Technology, in the scale of pay of Rs.4500-7300 w.e.f. 13-7-1994 under the norms promotion scheme and the proposal be placed before the Academic Council for instituting the post.

(Ad.D)

Item No.388.27 : Norms promotion to Dr. Saleena Mathew, Reader, School of Industrial Fisheries - Consideration of.

The Syndicate considered along with the recommendations of the Standing Committees on Finance and Purchase, Staff and Establishment and Academic Matters, the request of Dr. Saleena Mathew, Reader, School of Industrial Fisheries for promotion as Professor under norms promotion scheme.

Resolved that Dr. Saleena Mathew be granted promotion as Professor by upgrading the post of Reader held by her in the School of Industrial Fisheries, in the scale of pay of Rs.4500-7300 w.e.f. 13-7-1994 under the norms promotion scheme and the proposal be placed before the Academic Council for instituting the post.

(Ad.D)

Item No.388.40 : Ph.D. thesis entitled "Economic Analysis of Different Aquaculture Systems in Kerala - A Production Function Approach" submitted by Sri. Raju, M.S. - 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. Raju, M.S., Part Time Research Student, Department of Applied Economics, Cochin University of Science and Technology, Kochi-22, who worked under the guidance of Dr. Ramakrishnan Korakandy, Reader, School of Industrial Fisheries, Cochin University of Science and Technology, Kochi-16.

Resolved that Sri. Raju, M.S. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Social Sciences for his thesis "Economic Analysis of Different Aquaculture Systems in Kerala--A Production Function Approach".

(Exams.)

Item No.388.41 : Ph.D. thesis entitled "Urban Informal Sector: Entrepreneurship Self-Employment and Linkage" submitted by Sri. Martin Patrick - 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. Martin Patrick, Part-time Research student, Department of Applied Economics, Cochin University of Science and Technology, Kochi-22 who worked under the guidance of Dr.D. Rajasenan, Reader, Department of Applied Economics, Cochin University of Science and Technology, Kochi-22.

Resolved that Sri. Martin Patrick be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Social Sciences for his thesis "Urban Informal Sector: Entrepreneurship Self-Employment and Linkage".

(Exams.)

Items No.388.42 : Ph.D. thesis entitled "The Economics of Irrigation--A case Study of Kuttiadi Irrigation Project" submitted by Sri. Mony, K.S. - 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. Mony. K.S., Part-Time Research Student, Department of Applied Economics, Cochin University of Science and Technology, Kochi-22 who worked under the guidance of Dr. K.C. Sankaranarayanan Professor, Department of Applied Economics, Cochin University of Science and Technology, Kochi-22.

Resolved that Sri. Mony. K.S. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Social Sciences for his thesis "The Economics of Irrigation--A case Study of Kuttiadi Irrigation Project".

(Exams.)

:8:

Item No.388.43 : Ph.D. thesis entitled "Chemoreception in relation to Feeding Responses in the Marine Shrimps *Penaeus Indicus* H. Milne Edwards and *Metapenaeus Dobsoni* Miers" submitted by Smt. Cheryl Hyacinth Fernandez -- 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 Smt. Cheryl Hyacinth Fernandez, Full Time Research Student, Central Marine Fisheries Research Institute, Kochi-14 who worked under the guidance of Dr. P.S.B.R. James.

Resolved that Smt. Cheryl Hyacinth Fernandez be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Marine Sciences for her thesis "Chemoreception in relation to Feeding Responses in the Marine Shrimps *Penaeus Indicus* H. Milne Edwards and *Metapenaeus Dobsoni* Miers".

Item No.388.44 : Ph.D. thesis entitled "Refinance Operations of the National Bank for Agricultural and Rural Development--The Kerala Experience" submitted by Smt. Leena Mathew - 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 Smt. Leena Mathew, Full-Time Research Student, Department of Applied Economics, Cochin University of Science and Technology, Kochi-22 who worked under the guidance of Dr. K. Krishnan Nampoothiri, Reader, School of Management Studies, Cochin University of Science and Technology, Kochi-22.

Resolved that Smt. Leena Mathew be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Social Science for her thesis "Refinance operations of the National Bank for Agricultural and Rural Development--The Kerala Experience".

(Exams.)

Item No.388.45 : Ph.D. thesis entitled "Bio-economic Evaluation of Semi-intensive Shrimp Farming in Kerala" submitted by Sri. Prasad. G. - Evaluation reports and minutes of viva-voce examination - Consideration of.

:9:

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. Prasad. G., Part-Time Research Student, Central Marine Fisheries Research Institute, Kochi-14 who worked under the guidance of Dr. K. Alagaraja, Retd. Principal Scientist, Central Marine Fisheries Research Institute, Kochi-14.

Resolved that Sri. Prasad, G. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Marine Sciences for his thesis "Bio-economic Evaluation of Semi-intensive Shrimp Farming in Kerala".

(Exams.)

All other items in the agenda were deferred.

The meeting adjourned at 1.30 p.m. with a decision to meet at 3.30 p.m. on 18.10.1997.

MINUTES OF THE ADJOURNED 388TH MEETING OF THE SYNDICATE
HELD ON 4.11.1997

Place of Meeting : Administrative Buildings,
 Kochi - 682 022.

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.C. Joseph, M.L.A.
4. Sri. M.A. Thomas, M.L.A.
5. Sri. P.N. Prasannakumar
6. Dr. K.G. Nair
7. Dr. P. Leelakrishnan
8. Sri. T.A. Ahmed Kabir
9. Dr. M. Shahul Hameed.
10. Dr. A. Mohandas
11. Sri. K.K. Gopalakrishnan
12. Sri P. Radhakrishnan.

Also present:

Dr. K.G. Balakrishnan
 Registrar.

Before the commencement of the meeting, the Vice-Chancellor reported about the sad and sudden demise of Sri. V.P. Marakkar, who had served this University as a member of the first Senate and the Syndicate of the University of Cochin. The House observed two minutes silence as a mark of respect to the departed soul and adopted the following resolution:

"This meeting of the Syndicate deeply mourns on the untimely death of Sri. V.P. Marakkar, veteran trade union leader who expired on 23.10.1997. Shri. Marakkar was a member of the first Syndicate and Senate of this University and has made valuable contributions for the development of this University".

After this, Vice-Chancellor presented following report on important developments since the last meeting.

1. The Post-Graduate Programme (LL.M.) in Human Rights was inaugurated by Mr. Justice Sukhdev Singh Kang (Retd.), His Excellency the Governor of Kerala at the School of Management Studies Auditorium on Saturday, the 18th October 1997. A lunch was also hosted in honour of His Excellency the Governor of Kerala.

2. The Vice-Chancellor visited the Netherlands October 21 to 31, 1997. During the visit he participated in the MHO Rectors meeting organised by NUFFIC on 22nd and 23rd October 1997 at The Hague. He also visited the Dutch Institutes participation in the MHO programme, namely, the Universities at Delft, Wageningen, Eindhoven and Tilburg. The Vice-Chancellor also participated in a Seminar on Dutch Higher Education organised by the University of Nijmegen.
3. It was reported that four students of the Department of Ship Technology had actively taken part in the alleged ragging, a serious offence which took place on 31.10.1997 in the Department of Ship Technology. Having considered and convinced of the matter, pending enquiry the Vice-Chancellor in exercise of his powers under Section 12(c) of the Cochin University of Science and Technology Act, 1986 suspended the following students of the Department of Ship Technology from the Department and Hostel with immediate effect.

1. Binoy Dinesh, B.Tech. III Semester.
2. Rajesh, B.Tech. III Semester.
3. Aneeshkumar, B.Tech. IV Semester.
4. Harish, G.S., B.Tech. IV Semester.

The Syndicate noted that one of its member Sri. P. Radhakrishnan has been elevated to the position of an Executive Director in the Fertilisers and Chemicals Travancore Ltd. (FACT) recently. The Syndicate congratulated Shri. Radhakrishnan on this well deserved achievement.

Item No.388.06 : Purchase of furniture for various University Hostels.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance and Purchase, the proposal of the University Engineer for purchase of furniture for various University Hostels, and the split up details of the requirements and the justification for the requirement.

Resolved that sanction be given to the University Engineer for purchase of 40 Nos. wooden costs, 40 nos. tables and 65 Nos. wooden chairs at a total cost of Rs.2.60 lakhs subject to the following conditions:

- (i) Engineering Department should immediately confirm if a Stock Register is maintained as per rules, relating to the assets in the various University Hostels.
- (ii) Engineering Department to immediately confirm if an Annual Physical Verification of the assets in the various

:12:

University Hostels is being conducted. If not, the reasons/justifications therefore to be furnished and steps be initiated to conduct an annual physical verification henceforth.

(iii) Based on the above, cases of losses/damages of assets be ascertained and the cost thereof arranged to be equally distributed among the concerned hostel inmates and adjusted from their respective caution deposits.

Further resolved that necessary advance be sanctioned to the University Engineer for effecting the purchase, and the expenses on this account be debited to "1.0.1.0.Q Contingencies 2 - purchase 105 - purchase of furniture provided in the current years budget of the University.

(Ad.C)

Item No.388.07 : purchase of generator set for Prawn Hatchery
- Sanction - Reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance and Purchase, the request of the Director, School of Industrial Fisheries to sanction for purchase of one KIRLOSKAR TAF-2 10 bhp Generator set with KIRLOSKAR 3 phase Alternator, six Nos. of Antivibration mountings and one residential type silencer.

Resolved that the request of the Director, School of Industrial Fisheries to sanction purchase of one Kirloskar TAF-2 10 bhp Generator set with Kirloskar 3 phase Alternator (7.5 KVA/6 W), Six Nos. of Antivibration mountings and one residential type silencer at a total cost of Rs.71,400/- (Rupees Seventyone thousand and four hundred only) plus unloading charges etc. from M/s.Genlite Diesels, P.B.No.3242, 40/2158, 1st Floor, Chittoor Road, Kochi 35, and the expenditure on this account be debited to "1.54.0.Q.2.104 Purchase of Other Equipments Plan".

(Pl.A)

Item No.388.08 : Repairs and maintenance to the Ladies Hostel Athulya in the Thrikkakara Campus.

The Syndicate considered, along with the recommendation of the Standing Committee on Works, the proposal of the University Engineer, for repairs and maintenance to the Ladies Hostel "Athulya" in the Thrikkakara Campus.

Resolved that the estimate amounting to Rs.2,55,000/- (Rupees Two lakhs and fiftyfive thousand only) based on 1996 schedule of rates, forwarded by the University Engineer for the repair and maintenance to the Ladies Hostel "Athulya" in the Thrikkakara Campus, be approved and the expenditure on this account be debited to "2-non-plan-97-0-Works-T-4-Others-999-Minor works" provided in the current year's budget.

(pl.A.)

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Item No.388.09 : Maintenance and repairs to the Administrative Block in the Thrikkakara Campus.

The Syndicate considered, along with the recommendation of the Standing Committee on Works, the proposal of the University Engineer to award the work of maintenance and repairs to the Administrative Block in the Thrikkakara Campus to Shri.P.A.Abdulla, Pukkattu House, Kochi-22 at his quoted rate of 5.9% below the PAC of Rs.3,35,580/-

Resolved that the proposal of the University Engineer to award the work of maintenance and repairs to the Administrative Block in the Thrikkakara Campus to Shri.P.A.Abdulla, Pukkattu House, Kochi-22 at his quoted rate of 5.9% below the PAC of Rs.3,35,580/-, the total cost being Rs.3,16,019/- (Rupees Three Lakhs sixteen thousand and nineteen only) including departmental supply worth Rs.4,030/-

(Pl.A)

Item No.388.12 : Purchase of a single phase Lock-in-Amplifier
- Advance - Reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance and Purchase, the request of the Director, International School of Photonics to sanction purchase of one single phase Lock-in-Amplifier for conducting experiments for M.Tech. as well as for research students.

Resolved that the request of the Director, International School of Photonics to sanction purchase of one SR 510 single phase Lock-in-Amplifier W/RS 232, APIB, Rack Mount at a cost of US \$2775.00 plus freight and insurance and clearing charges etc. from M/s.Stanford Research Systems, 1290 D Reamwood, Sunnyvale, CA-94089, USA through their Indian Agents M/s.Scientific Instruments Marketing Company (P) Ltd., 305, Third Floor, MBC Complex, 134, Infantry Road, Bangalore-560 001.

Further resolved that the Director, International School of Photonics be permitted to draw an advance of Rs.1,20,000/- (Rupees One lakh and twenty thousand only) for making advance payment as this will save packing, handling and inland freight charges (US \$ 240), and the expenditure on this account be debited to "1-87-0-Q-2-104" provided in the current years budget.

(Pl.A)

Item No.388.13 : Renewal of subscription to journals and periodicals for Departments/Schools/Central Library and subscription to current contents on diskettes/CD-ROM-1988 - Advance - Reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance and Purchase, the request of the University Librarian to sanction to renew subscription to various periodicals and journals on behalf of all the departments and schools by the Central Library and for subscription to current contents on diskettes/CD-ROM for the calendar year 1998, to approve the allocation of funds for various departments and to draw an advance amount of Rs.40 lakhs.

Resolved that:--

(i) The request of the University Librarian to renew the subscription to various research journals based on the priority list forwarded by the Departments for the year 1998 and also the current contents on diskette/CD-ROM be sanctioned.

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: 14 :

(ii) The allocation of funds for various departments towards subscription to foreign periodicals for the year 1998 as given in Appendix-I be approved.

(iii) An amount of Rs.40.00 lakhs (Rupees Forty lakhs only) be advanced to the University Librarian for the renewal of subscription to journals and periodicals and current contents on diskettes/CD-ROM and debit the expenditure on this account to "2-07-0-Q-2-138 Journals/Magazine/Periodicals-General" provided in the current years budget.

Further resolved that the School of Industrial Fisheries and School of Environmental Studies may submit the requirement of additional journals, which may also be included later in the list, in consultation with the Vice-Chancellor.

(Pl.A)

Item No.388.14 : Compilation of details of computer system availability in the various departments of the University - Reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance and Purchase, the details of the computer systems available in the various departments and its utility, compiled as per an earlier decision of the Syndicate.

Resolved that:-

(i) The existing Expert Committee for the purchase of computers be authorised to examine the details furnished, with respect to the actual requirement of computing facilities in each of the departments and make suitable recommendations, with a view to reduce the University's expenditure on computer purchases by making maximum use of the facilities already available in these departments.

(ii) Three of the working computer systems which are obsolete and cannot be used in the Departments be transferred to the Centre for Science in Society and the Director, Centre for Science in Society is authorised to contact the concerned Head of the Department and get position of these three computers.

(iii) All other computer systems which are obsolete/not in working condition be handed over to the hardware laboratory of the Centre for Under Graduate Studies in Engineering in consultation with the Head, Department of Computer Science.

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: 15 :

Item No.388.15 : Starting publication of a journal - Statistical methods - Department of Statistics - Reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the proposal of the Head, Department of Statistics for starting publication of a journal "Statistical Methods" using the funds of the Departmental Development Fund.

Resolved that the Head of the Department of Statistics be requested to submit the financial outlay of the proposal, such as the total expenditure to be incurred for each issue, the details of receipts, price of the journal, number of copies to be circulated etc.

(Pl.A)

Item No.388.16 : Enhancement of interest free medical loan - Reg.

The Syndicate noted the action taken by the Vice-Chancellor in adopting G.O.(P) No.45/97/H&FWD dated 18-2-1997 (Given in Appendix-II), enhancing the interest free medical loan to government employees to 75% of the estimated cost of the treatment subject to a maximum of Rs.50,000/-, for implementation in the University.

(Ad.E)

Item No.388.17 : International School of Photonics - Purchase of Holography Training Kit - Advance - Sanction - Reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance and Purchase, the request of the Director, International School of Photonics to sanction purchase of one Holography Training Kit with Bread Board for conducting laboratory experiments for M.Tech. students and also for the use of research students.

Resolved that the request of the Director, International School of Photonics to sanction purchase of one OSAW Holographic Training Kit (Complete with Bread Board) at a cost of Rs.85,000/- (Rupees Eighty five thousand only) plus CED, CST, Octroi at actuals, be sanctioned and the expenditure on this account be debited to "1-87-0-Q-2-104 Purchase of other equipments plan" provided in the current years budget.

Further resolved that the Director, International School of Photonics be permitted to draw an advance of Rs.95,000/- for effecting the purchase.

(Pl.A)

(Contd...p/16)

Item No.388.18 : Regulations/Amendments to Regulations made by the Academic Council - Approval for and fixing of date of effect - Reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the Regulations/Amendments to Regulations made by the Academic Council at its meeting held on 9-4-1997 relating to the Three Year part time Master's Degree in International Business/MBA Full-Time/M.B.A. Part-Time.

Resolved that these Regulations/Amendments to Regulations be made effective from the date of the institution of the diploma course, ie. 31-5-1994.

(Ac.B4)

Item No.388.20 : Refund of tuition fees to the students admitted to B.Tech. Engineering Courses - Reg.

The Syndicate considered, along with the recommendations of the Standing Committees on Academic Matters, and Finance and Purchase the matter of refund of tuition fees to the students admitted to B.Tech. Engineering Courses who leaves the institution for various reasons.

Resolved that:-

- (i) Tuition fee already remitted may be refunded when a student leaves before commencement of the classes.
- (ii) Tuition fee remitted shall not be refunded to a student who does not attend the classes for the first seven or more working days of the semester.
- (iii) Tuition fee remitted shall not be refunded to students who attend the classes for seven or more days.
- (iv) All other fees once remitted shall not be refunded.

Further resolved that these decisions will replace all earlier decisions in this regard.

(CUGSE)

Item No.388.21 : Smt.Girija.S., Junior Librarian (on LWA) - Extension of LWA to join the spouse working abroad - Consideration of request.

The Syndicate considered, along with the recommendation of the Standing Committee on Staff and Establishment, the request of Smt.S.Girija, Junior Librarian (on LWA) for extension of LWA for a further period of 5 years w.e.f. 5-11-1997 to remain with her husband who is working abroad.

Resolved that the request of Smt.S.Girija, Junior Librarian (on LWA) for extension of LWA for a further period of 5 years w.e.f. 5-11-1997 to remain with her husband who is working abroad be granted.

(Ad.A)

Item No.388.22 : Allotment of Type A1 Quarters - Reg.

The Syndicate considered, along with the recommendations of the Standing Committees on Staff and Establishment and Finance and Purchase, the matter of allotment of Type A1 quarters now lying vacant to the officers of lower category, since there are no eligible applicants.

Resolved that no relaxation be made in the matter of pay range of the officers fixed earlier for allotment of quarters, and the present requests be declined.

(Ad.E)

Item No.388.23 : B.Tech. degree III semester examination July 1997 - Condonation of shortage of attendance.

The Syndicate noted the action taken by the Vice-Chancellor in condoning the 10% shortage of attendance of Shri.Binoy Bhas, V.V., a III Semester B.Tech. student (Mechanical) of Centre for Under Graduate Studies in Engineering, so as to enable him to appear for the III Semester Examination since the Examination had been scheduled to commence w.e.f. 16-07-1997.

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

Item No.388.25 : Award of University Merit Scholarship - Smt.Sheela Varghese, Department of Physics and Shri.Hariharan, Department of Polymer Science and Rubber Technology - Request - Consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the request from the Head, Department of Physics to award the Merit Scholarship to the next candidate Smt.Sheela Varghese since Shri.Viju Oommen John who was awarded the fellowship failed in the first semester examination, and the request of the Head, Department of Polymer Science and Rubber Technology to know whether a candidate (S.Hariharan) who was awarded the Merit Scholarship, and could not appear in the first semester examination due to ill health, is eligible for the scholarship on passing the Ist Semester Examination.

Resolved that:-

- (i) The request of the Head of the Department of Physics to award the Merit Scholarship to Smt. Sheeja Varghese be declined since this is against rules.
- (ii) The Head of the Department of Polymer Science and Rubber Technology be informed that Shri. S. Hariharan is not eligible for the Scholarship since he could not appear for the 1st Semester Examination.

(Ac.B)

- Item No. 388.26 : Mr. T.A. Baby, Assistant Engineer - Grant of leave without allowances to take up employment abroad - Reporting of.

The Syndicate noted the action taken by the Vice-Chancellor in sanctioning leave without allowances to Shri. T.A. Baby, Assistant Engineer, Department of Engineering for a period of five years w.e.f. 15-8-1997 FN for taking up employment abroad.

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

(Ad.A)

- Item No. 388.28 : Request to reserve seats in the B.Tech. courses for the children of Naval personnel - Proposal of the Flag Officer Commanding-in-Chief, Southern Naval Command - Reg.

The Syndicate considered, along with the recommendation of the Standing Committees on Academic Matters and Finance and Purchase, the request of the Flag Officer Commanding-in-Chief, Southern Naval Command for reserving seats in various engineering courses of the University for the children of serving and retired Naval Personnel.

Resolved that the request be declined.

(Ac.A)

- Item No. 388.29 : Recognition as Research Guide - Application from Dr. V.V. Sudheendra Kumar, Scientist, Kerala Forest Research Institute - Consideration of.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the request from Dr. V.V. Sudheendra Kumar, Scientist, Kerala Forest Research Institute, Peechi for recognition as a Research Guide under the Faculty of Environmental Studies.

Resolved that Dr. V.V. Sudheendra Kumar, Scientist, Kerala Forest Research Institute, Peechi be recognised as a Research guide under the Faculty of Environmental Studies.

(Ac.B.)

- Item No. 388.30 : Sri. P. Venkitanarayanan, Senior Lecturer, Department of Ship Technology - Leave without allowances for study purpose - Change of University - Informing of.

The Syndicate considered, along with the recommendations of the Standing Committees on Academic Matters, Staff and Establishment and Finance and Purchase, the request from Shri. P. Venkitanarayanan, Sr. Lecturer, Department of Ship Technology who is on LWA for five years w.e.f. 19.12.1995 for approving for changing the institution for higher study leading to Ph.D. to the Department of Mechanical Engineering and Applied Mechanics at the University of Rhode Island, Kingston, USA w.e.f. June 1996.

Resolved that the request be approved.

(Ad.D.)

- Item No. 388.31 : University teacher - Sri. K.J. James, Reader, Department of Ship Technology - Request for declaration of probation - Consideration of - Reg.

The Syndicate considered, along with the recommendations of the Standing Committees on Academic Matters, Staff and Establishment and Finance and Purchase, the request of Sri. K.J. James, Reader, Department of Ship Technology for declaration of his probation as satisfactorily completed in the post of Reader considering the period prior to his unauthorised absence also.

Resolved that the period of duty to be counted for the probation of Sri. K.J. James in the post of Reader be from 8.4.1991 to 8.4.1993 condoning a shortage of 38 days, and on the basis of this condonation his probation in the post of Reader be declared as satisfactorily completed w.e.f. 8.4.1993.

(Ad.D)

- Item No. 388.32 : Award of Diplomas - Signature of the Issuing Authority - Regarding.

The Syndicate considered, along with the recommendations of the Standing Committee on Academic Matters, the matter of regularisation of the procedure, and of the authority to sign the Degrees/Diplomas/Certificates issued by the University.

: 20 :

Resolved that the Vice-Chancellor may sign the Degrees/Diplomas/Certificates issued by the University.

(Exam.)

Item No. 388.33: Repairs and maintenance to the Teachers Hostel Savannah in the Thrikkakara campus.

The Syndicate considered, along with the recommendation of the Standing Committee on Works, the proposal of the University Engineer to entrust the work of repairs and maintenance to the Teacher's Hostel "Savannah" in the Thrikkakara Campus to Shri. V.S. Mohammadali, Vellakkal House, Kochi-22.

Resolved that the proposal of the University Engineer to entrust the work of repairs and maintenance to the Teacher's Hostel "Savannah" in the Thrikkakara Campus to Shri. V.S. Mohammadali, Vellakkal House, Kochi-22 at his quoted rate of 32% above the PAC of Rs.2,08,398/-, the total cost being Rs.2,72,132/- (Rupees Two lakhs seventy two thousand one hundred and thirtytwo only) including departmental supply worth Rs.9,230/- be approved.

(Pl.A)

Item No. 388.34 : IPDI project - Appointment of Dr. N. Balakrishnan, IISc., Bangalore as consultant - Regarding.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance and Purchase, the proposal of Dr. C.S. Sridhar, Centre for MHO Co-operation, CUSAT to appoint Dr. N. Balakrishnan, Chairman, Supercomputer Education and Research Centre (SERC), Indian Institute of Science, Bangalore as Consultant for the IPDI Networking Project.

Resolved that Dr. N. Balakrishnan, Chairman, Supercomputer Education and Research Centre, Indian Institute of Science, Bangalore be appointed as Consultant for the IPDI Networking Project on payment of TA/DA and consultancy from INFOCUS Preproject funds upto NFL 6,000/- (ie. amounting approximately to Rs.1,20,000/-) per annum.

PL(UGC)

Item No. 388.35: B.Tech. degree VIII Semester examination in Electronics/Bio-medical/Computer Engineering (FT and PT) February 1996- Revaluation and supplementary examination July 1996-Option for choosing higher marks-Regarding.

The Syndicate considered, along with the recommendation of the Standing Committee on Academic Matters, the request of some candidates of B.Tech. Degree VII Semester Examination in

: 21 :

Electronics/Bio-medical/Computer Engineering (F.T. and P.T.) February 1996/July 1996, for choosing higher marks scored by them in the Revaluation and Supplementary Examination.

Resolved that the option be given to the students for accepting the marks scored by them in the Revaluation or in the Supplementary Examination, in this particular examination as a special case.

Item No. 388.36: B.Tech. Engineering courses-Readmission repeating of course work-Creation of additional seats-Clarification in payment of semester fees - regarding.

This item was deferred for consideration in the meeting scheduled on 15th November 1997.

Item No. 388.37: Department of Biotechnology-Purchase of Ultrasonicator and high speed refrigerated Centrifuge - Advance - Reg.

The Syndicate considered, along with the recommendation of the Standing Committee on Finance and Purchase, the request of the Head, Department of Biotechnology for purchase of one Ultrasonicator and High Speed Refrigerated Centrifuge needed for M.Sc. and Ph.D. programmes of the Department.

Resolved that the request of the Head, Department of Biotechnology to sanction purchase of one Ultrasonicator model Labsonic 'U' from M/s. B. Braun Biotech International, Germany through their Indian agents, M/s. Labmate (Asia) Pvt. Ltd., SF-1, Lokesh Towers, 18, Kodambakkam High Road, Madras 600034, at a cost of DM 8508.00 (approx. Rs.1,74,414/-), and one High Speed Refrigerated Centrifuge from M/s. Kubota Corporation, Japan through their Indian agents M/s. Instruments Corporation & Agencies, No.16A, VII Main Road, Raja Annamalaipuram, Chennai, 600028, at a cost of Japanese Yen 1,530,165.00 (approx. Rs.4,74,352/-, the total cost being Rs.6,65,766/- (Rupees Six lakhs sixtyfive thousand seven hundred and sixtysix only), including anticipated clearing charges and exchange rate fluctuations, be approved. Further resolved that the Head of Department of Biotechnology be permitted to draw an amount of Rs.6,65,766/- as advance for effecting the purchase debiting the amount to "1.1.O.Q.2.104 Purchase of Other Equipments-Plan".

(Pl.A)

Item No. 388.38 : Request for occupation of University quarter after the date of retirement-Reg.

The Syndicate noted the action taken by the Vice-Chancellor in permitting Sri. C.K. Sukumaran, Pass Examiner

(Retired) to continue occupation of the University D Type Quarters for a period of 3 months after retirement, i.e. upto 31.8.1997 paying a rent at the normal rate instead of the standard rent in relaxation of the rules for allotment of quarters, AND considered, along with the recommendation of the Standing Committees on Staff and Establishment and Finance and Purchase, the request of Sri. C.K. Sukumaran for extension of the period of occupation for a further period i.e. w.e.f. 31.8.97 upto 30.11.1997.

Resolved that --

(i) The action taken by the Vice-Chancellor in permitting Sri. C.K. Sukumaran to continue occupation of the University D type quarters for a period of 3 months after retirement i.e. upto 31.8.1997 paying a rent at the normal rate instead of the standard rent in relaxation of the rules for allotment of quarters, be ratified.

(ii) Sri. C.K. Sukumaran be allowed to stay in the University quarters till 30.11.1997 paying the normal rent, and no further extension of stay be granted to him under any circumstances.

(Ad.E)

Item No. 388.39: Rejoining duty before the expiry of LWA- Request from Sri. K. Roby, Lecturer, Department of Ship Technology-Consideration of.

The Syndicate considered, along with the recommendations of the Standing Committees of Academic Matters, Staff and Establishment and Finance and Purchase, the request from Sri. K.Roby, Lecturer, Department of Ship Technology for rejoining duty before the expiry of LWA availed by him for taking up the Japanese Government Scholarship.

Resolved that Sri. K. Roby, Lecturer, Department of Ship Technology (on LWA) be permitted to rejoin duty after completing the formalities, by executing a bond for Rs.35,000/- and without insisting for the other conditions stipulated in the University letter No.Ad.D2/639/84 dated 11.4.1994.

Resolved further that Sri.K. Roby, Lecturer, Department of Ship Technology be instructed not to repeat such irregularities in future.

(Ad.D)

Item No. 388.46: Additional space for Under Graduate courses- School of Computer Sciences- North Wing and Department of Electronics.

The Syndicate considered, along with the recommendation of the Standing Committee on works, (i) the rough estimate and plan submitted by the University Engineer for a building for additional space for School of Computer Science and Department of Electronics at a cost of Rs.70,20,000/-, and (ii) the suggestion

to entrust the preparation of structural design and drawings with an architect since the proposed building is for 5 floors.

Resolved that --

(i) the rough estimate and plan submitted by the University Engineer for a building for additional space for the School of Computer Science and the Department of Electronics at a cost of Rs.70,20,000/- be approved.

(ii) the suggestion of the University Engineer to entrust the preparation of structural design and drawings with an architect since the foundation of the proposed building is for 5 floors be approved.

(iii) The expenditure on the above be met from a suitable head of account provided in the current year's budget.

(CUGSE)

Item No.388.47: Construction of additional space for U.G. Course - Engineering Science Block No.I - III floor over Department of Computer Science in the Thrikkakara campus.

The Syndicate considered, along with the recommendation of the Standing Committee on Works, the estimate based on 1996 schedule of rates amounting to Rs.54,00,000/- (Rupees Fiftyfour lakhs only) forwarded by the University Engineer for the construction of 3rd floor covering the area over the School of Engineering Sciences Block No.I, for additional space for U.G. courses.

Resolved that the estimate based on 1996 schedule of rates amounting to Rs.54,00,000/- (Rupees Fiftyfour lakhs only) forwarded by the University Engineer for the construction of 3rd floor covering the area over the School of Engineering Sciences Block No.I, i.e. 1555.2 sq.m. for additional space for U.G. Studies be approved.

(CUGSE)

Item No.388.48 : Construction of 5 Nos. laboratories/class rooms blocks for U.G.Studies in the Thrikkakara campus.

The Syndicate considered, along with the recommendation of the Standing Committee on Works, the proposal of the University Engineer for construction of 5 Nos. Laboratories/ Class room Blocks for U.G. Studies in the Thrikkakara Campus at an estimated cost of Rs.23.50 lakhs.

Resolved that the estimate costing Rs.23.50 lakhs based on the 1996 schedule of rates submitted by the University

Engineer for construction of 5 Nos. Laboratories/Class rooms Blocks, each having plinth area 225 m2. for U.G. Studies in the Thrikkakara Campus be approved.

Further resolved that the expenditure on this account be met from "2-94-O-T-Works-375-CUGSE-Main Building Complex" provided in the current year's budget.

(CUGSE)

Item No.388.48 : Purchase of 4000 bags of cement.

The Syndicate considered, along with the recommendations of the Standing Committee on Works, the proposal of the University Engineer to purchase 4000 bags of cement from M/s.Malabar Cements Limited, Walayar, @ Rs.165/- bag, including taxes, since the stock of cement in the Engineering Store has almost exhausted and large quantity of cement is required for various major works under execution.

Resolved that the proposal of the University Engineer to purchase 4000 bags of cement from M/s. Malabar Cement Limited, Walayar, @ Rs.165/- bag, including taxes be sanctioned. Further resolved that an amount of Rs.6,70,000/- (Rupees six lakhs and seventy thousand only) including an amount of Rs.10,000/- (Rupees Ten thousand only) for unloading charges @ Rs.2.50 per bag be advanced to the University Engineer for effecting the purchase, debited the amount to "2-94-O-T-Works-375-CUGSE-Main Building Compld" provided in the current years budget.

(PL.A)

Item No.388.50 : Construction of proposed jeep shelter, plumbing store and electrical store to Engineering Department in the Thrikkakara Campus.

The Syndicate considered, along with the recommendation of the Standing Committee on Works, the proposal of the University Engineer for construction of a jeep shelter, plumbing Store and Electrical Store to Engineering Department in the Thrikkakara Campus at an estimated cost of Rs.1,46,000/-

Resolved that the proposal of the University Engineer for construction of a jeep Shelter, Plumbing Store and Electrical Store to Engineering Department in the Thrikkakara Campus at an estimated cost of Rs.1,46,000/- be approved.

Further resolved that the expenditure on this account be met from "2-Non-Plan-17-O-Works-T-4-Others-999-Minor Works" provided in the current year's budget.

(PL.A)

Item No.388.51 : Ph.D. thesis entitled "Investigations on Ultrasonic Transducer Array Systems for NDE of Underwater Pipelines" submitted by Smt. Sumangala R. - Evaluation reports and Minutes of the 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 Smt. Sumangala, R., Full Time Research Student, Department of Electronics who worked under the guidance of Dr. P.R. Saseendran Pillai, Reader, Department of Electronics, Cochin University of Science and Technology, Kochi-22.

Resolved that Smt. Sumangala, R. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Technology for her thesis "Investigations on Ultrasonic Transducer Array Systems for NDE of Underwater Pipelines".

(Exam.)

Item No. 388.52 : Ph.D. thesis entitled "Geochemistry of Interstitial Watersand Sediments of Vembanad Estuary Kerala, India" submitted by Sri. Abdulla Bava K. - Evaluation reports and Minutes of the 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- Abdulla Bava, K., Full Time Research Student, School of Marine Sciences who worked under the guidance of Dr. P. Seralathan, Professor, Department of Marine, Geology and Geophysics, School of Marine Sciences, Cochin University of Science and Technology, Kochi-16.

Resolved that Sri. Abdulla Bava, K. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Marine Sciences for his thesis "Geo-chemistry of Interstitial waters and Sediments of Vembanad Estuary Kerala, India".

Item No. 388.53 : Ph.D. Thesis entitled "Prayogvadi Kavitha Mem Vyakthivadi Chetana" submitted by Smt. Lilly P.A. - Evaluation reports and Minutes of the 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 Smt. Lilly, P.A., Full Time Research Student, Department of Hindi, who worked under the guidance of Dr. M. Shanmughan, Reader, Department of Hindi, Cochin University of Science and Technology, Kochi-22.

: 26 :

Resolved that Smt. Lilly, P.A., be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Humanities for her thesis "Prayogvadi Kavitha Mem Vyakthivadi Chetana".

(Exam.)

Item No. 388.54 : Ph.D. thesis entitled "Studies on Elastomer Blends with Special Reference to NBR/BUTYL, NR/BUTYL AND NBR/EPDM BLENDS" submitted by Sri. Job Kuriakose Aerankavil - 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. Job Kuriakose, Part Time Research Student, Department of Polymer Science and Rubber Technology who worked under the guidance of Dr. Rani Joseph, Reader, Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Kochi-22.

Resolved that Sri. Job Kuriakose be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Technology for his thesis "Studies on Elastomer Blends with Special Reference to NBR/BUTYL, NR/BUTYL AND NBR/EPDM BLENDS".

(Exam.)

Item No. 388.55 : Ph.D. thesis entitled "Application of Strip Gratings for the Reduction of Radar Cross Section of Targets" submitted by Sri. Thomaskutty Mathew - 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. Thomaskutty Mathew, Part Time Research Student, Department of Electronics who worked under the guidance of Dr. K.G. Nair, Hon. Director, Sophisticated Test and Instrumentation Centre, Cochin University of Science and Technology, Kochi-22.

Resolved that Sri. Thomaskutty Mathew be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Technology for his thesis "Application of Strip Gratings for the Reduction of Radar Cross Section of Targets".

(Exam.)

Item No. 388.56 : Ph.D. thesis entitled "Effect of Dietary Proteins on Growth, Food Conversion and Digestive Enzyme Activity of Juvenile Macrobrachium Rosenbergii" submitted by Smt. C. Lizy Paulose - Evaluation reports and minutes of viva-voce examination - Consideration of.

: 27 :

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 Smt. Lizy Paulose, Part Time Research Student, School of Industrial Fisheries who worked under the guidance of Dr. Saleena Mathew, Reader, School of Industrial Fisheries, Cochin University of Science and Technology, Kochi-16.

Resolved that Smt. Lizy Paulose be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Marine Sciences for her thesis "Effect of Dietary Proteins on Growth, Food Conversion and Digestive Enzyme Activity of Juvenile Macrobrachium Rosenbergii".

(Exam.)

Item No. 388.57 : Ph.D. thesis entitled "Application of the Photoacoustic Technique for Imaging and Thermal Characterisation of Solid Samples" submitted by Sri. A.A. Sudhakaran - 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. A.A. Sudhakaran, Part Time Research Student, Department of Physics who worked under the guidance of Dr. Jacob Philip, Professor and Head, Department of Instrumentation, Cochin University of Science and Technology, Kochi-22.

Resolved that Sri. A.A. Sudhakaran be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Sciences for his thesis "Application of the Photoacoustic Technique for Imaging and Thermal Characterisation of Solid Samples".

(Exam.)

Item No. 388.58 : Ph.D. thesis entitled "Fuzzy Measures and a Theory of Fuzzy Daniell Integrals" Submitted by Sri. Samuel, M.S. - 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. Samuel, M.S., Part Time Research Student, Department of Mathematics who worked under the guidance of Dr. T. Thrivikraman, Professor, Department of Mathematics, Cochin University of Science and Technology, Kochi-22.

Resolved that Sri Samuel, M.S. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Science for his thesis "Fuzzy Measures and a Theory of Fuzzy Daniell Integrals".

(Exam.)

Item No. 388.59 : Ph.D. thesis entitled "Influence of Compounding and process Variables on Quality of Condoms made from Natural Rubber Latex" submitted by Smt. Jasmine Maret - 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 Smt. Jasmine Maret, Part Time Research Student, Rubber Research Institute of India, Kottayam who worked under the guidance of Dr. N.M. Mathew, Director, Rubber Research Institute, Kottayam.

Resolved that Smt. Jasmine Maret be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Technology for her thesis "Influence of Compounding and Process Variables on Quality of Condoms made from Natural Rubber Latex".

(Exam.)

Item No. 388.60 : Ph.D. thesis entitled "Studies on a New Vulcanisation System" submitted by Sri. Cyriac Mathew - 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. Cyriac Mathew, Full Time Research Student, Department of Polymer Science and Rubber Technology who worked under the guidance of Dr. A.P. Kuriakose, Professor, Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Kochi-22.

Resolved that Sri. Cyriac Mathew be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Technology for his thesis "Studies on a New Vulcanisation System".

(Exam.)

Item No. 388.61 : Sabbatical leave to Dr. A. Krishnamoorthy for one year with effect from 1.2.1998 - Application - Consideration of.

The Syndicate considered the request of Dr. A. Krishnamoorthy, Professor and Head, Department of Mathematics to grant him sabbatical leave for one year with effect from 1.2.1998 to undertake research work in the areas of Stochastic Differential Equation, Control Theory in addition to concentrating on the present areas of interest - Queues, Inventory, Reliability and other Stochastic Modelling and Operations research.

Resolved that Dr. A. Krishnamoorthy, Professor and Head, Department of Mathematics be granted sabbatical leave for a period of one year w.e.f. 1.2.1998 to undertake research work in the areas of stochastic differential equation, control Theory in addition to concentrating on the present areas of interest - Queues, inventory, reliability and other stochastic modelling and operations research, and he may handover charge of the Department to Dr. T. Thrivikraman, Professor.

Further resolved that Dr. T. Thrivikraman, Professor, Department of Mathematics be nominated as the Head of the Department w.e.f. 1.2.1998 till his date of retirement.

(Ad.D.)

Item No. 388.62 : Common Admission Test for the academic year 1998-99 - Evaluation of Common Admission Test for the academic year 1997-98 - Consideration of.

Resolved that this item be deferred for consideration in the next meeting scheduled on 15.11.1997.

Item No. 388.63 : Ph.D. Thesis entitled "Studies on L-Glutamic Acid Production Using Brevibacterium Sp" - submitted by Sri. Madhavan Nampoothiri, K. - 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. Madhavan Nampoothiri, K., Full Time Research Student, Regional Research Laboratory, Thiruvananthapuram who worked under the guidance of Dr. Asok Pandey, Scientist, Regional Research Laboratory, Thiruvananthapuram.

Resolved that Sri. Madhavan Nampoothiri, K. be declared eligible for the award of the Degree of Doctor of Philosophy under the Faculty of Science for his thesis "Studies on L-Glutamic Acid Production Using Brevibacterium Sp".

(Exam.)

Before closing the meeting, the following decisions are taken:

1. Resolved that all vacancies, both teaching and non-teaching, existing in the University shall be reported in the next regular meeting of the Syndicate scheduled in the month of December 1997.
2. The syllabi of all courses run by the University which have not been updated for the last two years, shall be updated immediately. The meetings of the Boards of studies be called immediately for this purpose.

: 30 :

3. The Vice-Chancellor then reported that the Government has enforced strict economy measures and has recently issued a G.O. which insists that while presenting the Grant-in-Aid bill for every month, a certificate to the effect that no posts have been created in the University.

The Syndicate resolved to request the Government to exempt this University from furnishing such a certificate, at least in the case of creating posts for the self-financing courses where the Government has no financial commitment.

4. Arising out of the discussions it was resolved to evaluate the working of all the Recognised Institutions of the University. A Committee consisting of the following was formed for the purpose, which will submit its report within three months:

Dr. K.C. Joseph, M.L.A. (Convener)
Dr. P. Leelakrishnan
Sri T.A. Ahmed Kabir
Sri P.N. Prasannakumar
Sri M.A. Thomas, M.L.A.
Dr. M. Shahul Hameed
Sri K.K. Gopalakrishnan

It was resolved that a request may be sent to the Government to delink the admission to the Recognised Institutions of the University from the Commissioner of Entrance Examinations, and to admit the Students from the Common Admission Test conducted by the University.

6. It was decided that a full discussion on the following items be held in the meeting of the Syndicate Scheduled on 15th November 1997:

- (i) Undergraduate B.Tech. Courses and its requirements/status.
(ii) Common Admission Test
(iii) Dutch collaboration and MHO Programme

The meeting concluded at 1.30 p.m.

Kochi-22
10.12.1997

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-31-
APPENDIX - I - TO ITEM NO.388.13

SUBSCRIPTION TO FOREIGN PERIODICALS FOR THE YEAR 1998

Sl. No.	Name of the Department/School	Proposed figure for the year 1998
1.	Department of Applied Chemistry	1,89,000.00
2.	-do- Applied Economics	1,10,000.00
3.	-do- Commerce	70,000.00
4.	-do- Biotechnology	72,000.00
5.	-do- Computer Applications	45,000.00
6.	-do- Computer Science	45,000.00
7.	-do- Information Technology	45,000.00
8.	-do- Electronics	63,000.00
9.	School of Environmental Studies	63,000.00
10.	Department of Foreign Languages	31,000.00
11.	School of Industrial Fisheries	54,000.00
12.	International School of Photonics	1,45,000.00
13.	School of Legal Studies	2,20,000.00
14.	School of Management Studies	1,40,000.00
15.	-do- Marine Sciences	3,24,000.00
16.	Department of Mathematics	81,000.00
17.	-do- Physics	2,79,000.00
18.	-do- Polymer Science & Rubber Technology	81,000.00
19.	-do- Statistics	81,000.00
20.	-do- Ship Technology	54,000.00
21.	School of Engineering	54,000.00
22.	Department of Instrumentation	54,000.00
23.	University Library	12,00,000.00
	Current contents on diskettes/CD-ROM	5,00,000.00
	Total: ..	40,00,000.00 =====

APPENDIX - II - TO ITEM NO.388.16

GOVERNMENT OF KERALA

(Abstract)

Kerala Government Servants Medical Attendance Rules 1960 -
Recommendations of the V Pay Commission - Modification to the
Rules - Orders Issued.

HEALTH AND FAMILY WELFARE (G) DEPARTMENT

G.O.(P)No.45/97 H & FWD Dated, Thiruvananthapuram, 18.2.1997

Read:- 1. G.O.(P)No.163/90/H&FWD dated 20.8.1990.
2. G.O.(Rt.)No.3137/93/H&FWD dated 27.11.1993.
3. Circular No.6650/G2/95/H&FWD dated 16.5.1995.

O R D E R

The Fifth Pay Commission had recommended inter alia, that there should not be an absolute ban on treatment in private hospitals and that an Expert Committee be constituted to identify special diseases for which private hospital treatment is justified and also to identify the diseases for which Interest Free Loan can be given. On the basis of the recommendation Government had constituted an Expert Committee vide Government Order read as second paper above. The Expert Committee which met on 2.3.1995 made its recommendations to the Government. The Government have considered those recommendations in detail and they are pleased to issue the following orders to take effect from the date of this order.

- i. There will not be a ban for referring the patients to a centre outside the State for taking treatment for the diseases listed in the Appendix I to this Order as there is a long waiting list and considerable delay at the centres in Kerala.
- ii. When a patient is referred to another institution outside collegiate hospital/Government hospital it should be with the permission of the Unit Chief or Head of the Department of the institution. For taking treatment outside the State the Government servant has to obtain prior permission from the Director of Health Services. A prescribed proforma at Appendix-II to this Order will be filled in for cases which require reference to centres outside the State.
- iii. 75% of the estimated cost for undergoing the treatment/procedure for the diseases/procedures listed in the Appendix-I to this order as certified by the institution where the treatment is to be taken, subject to a maximum of Rs.50,000/- (Rupees Fifty thousand only) will be sanctioned as Interest Free Loan subject to availability of budget provision. The amount of Interest Free Loan will be paid to the Government servant concerned.

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- iv. The Utilisation Certificate/claim for reimbursement should be furnished to the loan disbursing authority within three months of receipt of the loan. The amount of Interest Free Loan granted will be adjusted in the final/part medical reimbursement claim within 36 months from the date of drawal.
- v. The balance amount of the medical reimbursement claim admissible will be sanctioned only after adjusting the Interest Free Loan.
- vi. The facility of giving Interest Free Loan will be extended to those patients getting treatment for the diseases listed in the Appendix I to this Order from the collegiate hospitals/Government hospitals within the State also as the treatment has become expensive.

2. The list of diseases/procedures for which Interest Free Loan is admissible showing the centres where the facilities for their treatment/management are available and the approximate expenditure for treatment is appended to this Order.

3. Formal amendment to the Kerala Government Servants Medical Attendance Rules will be issued separately for which the Director of Health Services who will initiate action.

By order of the Governor,

V.VIJAYACHANDRAN
Secretary to Government

To

The Registrar, University of Cochin.

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- 34 -
APPENDIX - I

LIST OF DISEASES AND CENTRES WHERE THE TREATMENT FACILITIES ARE AVAILABLE AND THE TREATMENT CHARGES OF THE PROCEDURES

I. Cardiology and Cardiovascular Surgery		Approximate expenditure
		Rs.
1. Coronary artery by-pass surgery	:	1 lakh
2. Emergency open heart surgery	:	1 lakh
3. Paediatric Cardiac Surgery in new borns and infants	:	1 lakh
4. Valve replacement surgery	:	1.3 lakhs
5. Pacemaker implantation	:	40,000

Centres where these facilities are available:

1. Institute of Cardiovascular diseases, Madras
2. Appollo Hospital, Madras
3. Kuppuswamy Naidu Memorial Hospital, Coimbatore
4. Escorts Medical Centre, New Delhi
5. G.B. Pant Hospital, New Delhi
6. All India Institute of Medical Science, New Delhi.
7. Nizam Institute of Medical Science, Hyderabad.
8. Government General Hospital, Madras.
9. Southern Railway Hospital, Perambur, Madras.
10. Sri. Ramachandra Medical College Hospital, Madras.
11. Sri. Chithira Thirunal Institute of Medical Science and Technology (Thiruvananthapuram).

II. Paediatrics:

1. Treatment of Aplastic Anaemia-Thalasemia requiring Bone marrow transplantation :Rs.5 to 6 lakhs
ATG/ALG treatment :Rs.50,000 to 1 lakh
2. Life saving surgery for congenital Heart Diseases :Rs. 1 lakh
3. Treatment of Acute Leukaemia in children:Rs. 1 lakh
4. End stage renal disease in preparation for renal transplantation :Rs. 1 lakh

Facilities available at:

1. C.M.G., Vellore.
2. Appollo Hospital, Madras.
3. Madras Medical Mission, Madras.
4. Tata Memorial Hospital, Bombay.
5. Regional Cancer Centre Adayar, Madras.

- 35 -

6. All India Institute of Medical Sciences, New Delhi.
7. Railway Hospital, Madras.
8. SCT, MC, Thiruvananthapuram.
9. Ramachandra Institute of Medical Sciences, Madras.
10. Escorts Medical Centre, Madras.
11. Medical Trust Hospital, Kochi.
12. Komaranchath Urology & Renal Transplantation Centre, Ernakulam.
13. Sree Ramakrishna Hospital, Coimbatore.
14. Kovai Medical Centre, Coimbatore, Tamil Nadu.
15. K.G. Hospital, Madras.
16. K.J. Hospital, Madras.
17. Vijaya Hospital, Madras.
18. Tamil Nadu Hospitals, Madras.
19. Chennai Kaliappa Hospital, Madras.
20. Stanley Medical College, Madras.
21. Lady Wellington Hospital, Madras.
22. St. Johns Hospital, Bangalore.
23. Lakeside Hospital, Bangalore.
24. Bangalore Kidney Foundation, Bangalore.
25. Manipal Hospital, Bangalore.
26. Kasturba Hospital, Manipal.
27. Ramiah Nephrology & Urology Centre, Bangalore.
28. Nizams Institute of Medical Sciences, Hyderabad.
29. Sree Venkateswara Institute of Medical Sciences, Thirupati, Andhra Pradesh.
30. Osmania Medical College, Andhra Pradesh.
31. Appollo Hospitals, Hyderabad.
32. Medinora, Hyderabad.
33. K.E.M. Hospital, Bombay.
34. Jaslok Hospital, Bombay.
35. Hinduja Hospital, Bombay.
36. Armed Forces Medical College, Pune.
37. National Kidney Centre, Nadiad, Gujarat.
38. Sanjay Gandhi Insitute, Lucknow.
39. P.G.I.M.E.R., Chandigarh.
40. Benaras Hindu University, Varanasi.
41. Gauhati Medical College, Guahati.
42. Woodlands Nursing Home, Calcutta.

III. Orthopaedics

1. Tumour Resection and Prosthesis : Rs.50,000
2. Tumour of Lumbar and Thoracic Vertebral bodies-anterior and posterior fusion needed : Rs.50,000
3. Total knee replacement Rs.25,000 Medical College Hospital, Thiruvananthapuram and Thrissur Rs.20,000 for implants
4. Scoliosis surgery, Madras KMC Hospital : Rs.50,000
5. Interlocking nail : Rs.30,000

Available at:

1. Cosmopolitan Hospital, Thiruvananthapuram.
2. Appollo Hospital, Madras.
3. Kovai Hospital, Coimbatore
4. M.N. Hospital, Madras.
5. Bombay Hospital, Bombay.
6. St. Isahell Hospital, Mylapore, Madras.
7. Manipal Hospital, Karnataka.
8. K.M.C., Manipal & Gaya Hospital, Coimbatore.
9. S.U.T. Thiruvananthapuram.
10. Matha Hospital, Thrissur.
11. Vijaya Hospital, Madras.
12. Ernakulam Medical Centre, Ernakulam.
13. Adayar Hospital, Madras.
6. Fat embolism cases requiring Ventilatory support
 1. Sree Uthradam Thirunal Hospital, Thiruvananthapuram.
 2. Sree Chithra Thirunal Institute of Medical Sciences and Technology, Thiruvananthapuram.
 3. Appollo Hospital, Madras.
 4. Vijaya Hospital, Madras and most of the good hospitals.
7. Joint replacement surgery for knee and hip
 - Hip : Rs.10,000
 - Knee : Rs.40,000

Available at:

1. Medical College Hospital, Thiruvananthapuram.

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2. Medical College Hospital, Thrissur.
3. S.U.T. Hospital, Thiruvananthapuram.
4. Vijaya Hospital, Madras.
5. Appollo Hospital, Madras.
6. Kovail Medical Centre, Coimbatore.
7. Gaya Hospital, Coimbatore.
8. Revision of Joint replacement : Rs.40,000

Available at:

1. Appollo Hospital, Madras.
2. Kovai Medical Centre, Coimbatore.
3. Vijaya Hospital, Madras.
4. Manipal Hospital, Karnataka.
5. K.M.C. Hospital.

IV. General Surgery

- Radical Cancer Surgery : Rs.25,000
- Organ transplantation : Rs.1 lakh
- Vascular Graft Surgery : Rs.25,000

Available at:

1. All Medical College Hospitals in India.
2. All Regional Cancer Centres.
3. Tata Memorial, Bombay.
4. Adayar Cancer Institute, Madras.
5. Appollo Cancer Hospital, Madras.
6. All Major Defence Services Hospitals.
7. All India Institute of Medical Sciences.
8. Post-graduate Institute, Chandigarh.
9. Rajiv Gandhi Institute, Lucknow, Jimper, Pondichery.
10. Christian Medical College, Vellore.
11. Appollo Hospital, Madras, Madras Medical College Hospital.
12. All India Institute of Medical Sciences, Jimper.
13. Post-graduate Institute, Chandigarh.
14. Major Medical College Hospital, Bombay.
15. All Major Medical college Hospitals in India.
16. Department of Vascular Surgery, Madras Medical College, Madras.

17. All India Institute of Medical Sciences, New Delhi.
18. Appollo Hospital, Madras, Madras Medical Mission, Madras.
19. Malar Hospital, Madras.
20. Sree Chitra Thirunal Institute for Medical Sciences and Technology, Thiruvananthapuram.
21. Post-graduate Institute, Chandigarh.
22. Rajiv Gandhi Institute, Lucknow.

V. General Medicine

Bone marrow transplantation of Lymphoraticular : Rs.5-6 lakhs
and Haemological malignancies

Available at:

1. C.M.C., Vellore.
2. A.I.I.M.S., Delhi.
3. Appollo Hospital, Madras.
4. Cancer Institute, Adayar.
5. Tata Memorial Hospital, Bombay.

Renal Transplantation for Renal Diseases: : Rs.1 lakh
(Approx.)

Available at:

1. Medical College, Kozhikode.
2. Medical Trust Hospital, Kochi, Kerala.
3. Komaranchath Urology and Renal Transplantation Centre, Ernakulam, Kerala (No renal transplantation for last two years).
4. Sree Ramakrishna Hospital, Coimbatore, Tamil Nadu.
5. Kovai Medical Centre, Coimbatore, Tamil Nadu.
6. K.G. Hospital, Coimbatore, Tamil Nadu.
7. Christian Medical College, Vellore, Tamil Nadu.
8. Government Medical College, Madras, Tamil Nadu.
9. Appollo Hospital, Madras, Tamil Nadu.
10. K.J. Hospital, Madras, Tamil Nadu.
11. Vijaya Hospital, Madras, Tamil Nadu.
12. Tamil Nadu Hospitals, Madras.
13. Chennai Kaliappa Hospital, Madras.
14. Stanley Medical College, Madras.
15. Lady Wellington Hospital, Madras.
16. St. Johns Hospital, Bangalore, Karnataka.
17. Lakeside Hospital, Bangalore, Karnataka.
18. Bangalore Kidney Foundation, Bangalore.

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19. Manipal Hospital, Bangalore.
20. Kasturba Hospital, Manipal.
21. Ramiah Nephrology and Urology Centres, Bangalore.
22. Nizams Institute of Medical Sciences, Hyderabad.
23. Sree Venkateswara Institute of Medical Sciences, Tirupathi, Andhra Pradesh.
24. Osmania Medical College, Andhra Pradesh.
25. Appollo Hospitals, Hyderabad.
26. Medimora, Hyderabad.
27. K.E.M. Hospital, Bombay.
28. Jaslok Hospital, Bombay.
29. Hinduja Hospital, Bombay.
30. Armed Forces Medical College, Pune.
31. All India Institute of Medical Sciences, New Delhi.
32. National Institute of Kidney Science and Research, Ahmedabad.
33. National Kidney Centre, Nadiad, Gujarat.
34. Sanjay Gandhi Institute, Lucknow.
35. P.G.I.M.E.R., Chandigarh.
36. Benaras Hindu University, Varanasi.
37. Gauhati Medical College, Gauhati.
38. Woodlands Nursing Home, Calcutta.

VI. Cancer Treatment

Electronic beam Therapy for Breast, head and neck and skin tumours

Available at:

1. Cancer Institute, Adayar, Madras.
2. Appollo Hospital, Madras.
3. Tata Memorial Hospital, Bombay.
4. A.I.I.M.S., Delhi.
5. Kidwai Memorial Institute of Oncology, Bangalore.
6. Tamil Nadu Hospital, Madras.

Bone marrow transplantation for lymphoraticular and Haemotological Malignancy. : Rs.5-6 lakhs.

Available at:

1. C.M.C., Vellore.
2. Tata Memorial Hospital, Bombay.
3. Appollo Hospital, Madras.
4. A.I.I.M.S., New Delhi.

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- 40 -
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APPENDIX - II

THE KERALA GOVERNMENT SERVANTS MEDICAL ATTENDANCES RULES, 1960

(Proforma to be filled up by the Authorised Medical Attendant when a patient is referred to other Hospitals within/outside State)

1. Name and address of Patient :
2. Whether employed, if so details such as
 - (a) Pay & Scale of Pay :
 - (b) Office in which employed. :
3. Residential address of the patient. :
4. Place at which the patient fell ill. :
5. Whether hospitalised or not :
6. If hospitalised whether in Government Hospital/Private Hospital with name of Hospital. :
7. If advised hospitalisation outside the State the hospital where the patient is admitted first. State the reason for outside hospitalisation. :
8. Details of permission granted for outside treatment. :

Signature of Authorised Medical
Attendant.

9. (i) Remarks of Unit Chief/Head of the Department.
(ii) Remarks of Superintendent of Hospital

Counter Signature of DME/DHS