* ACADEMIC REGULATIONS FOR POST GRADUATE DEGREE PROGRAMMES (M. Sc.) UNDER THE FACULTY OF SCIENCE

DEFINITIONS

PROGRAMME -- M.Sc. (Programmes as per Annexure 1)

COURSE -- One of the constituent subjects of the Programme

SEMESTER -- Duration for studying a course

TERM -- A portion of an academic year, normally coinciding with a

semester. The words "Term" and "Semester" are

generally used synonymously.

REGISTRATION -- Procedure for getting enrolment in a Course

LETTER GRADE -- A letter associated with a particular performance level of

the student. A qualitative meaning and a numerical index

are attached to each grade.

A+ to C+ are Passing grades, C -- Conditional pass, FF -

Fail, IF – Interim fail

CREDIT -- A numerical figure associated with a course. On passing

the course, the student earns this "credit"

GRANTING A TERM -- This expression is used to indicate that the student's in-

semester performance is up to acceptable standards.

GT - Term granted, NT - Term not granted

REGULAR APPROVAL -- If a student is unable to attend the institute or appear in an

examination on account of unavoidable reasons like illness, accident or unforeseen circumstances, prior/prompt intimation and request to HOD is necessary for seeking approval for the absence. The approval of HOD so

obtained will be referred as Regular Approval.

SHORT FORMS

Institute of Science -- Institute
Director of Institute of Science -- Director
Dean of the Faculty of Science -- Dean
Head of concerned Department -- HOD

Appeal Committee consisting of -- Appeal Committee

Director, Dean and Two Senior Faculty Members

nominated by Director

Initial Registration -- IR
Repeat Registration -- RPR

^{*} Published vide Notification no. NU-412 dated 27.8.2004, AC mtg. 8.7.2004, resol.-5(a), read with Notification no. NU-883 dated 10.3.2005, BoG mtg.-5.2.2005, reso.-5

¹RL -- Repeat Registration for LPW

¹RS -- Repeat Registration for Studying all

components of a course

Term Not Granted -- NT

¹NTP & NTC *Deleted*

Re - examination Registration -- RER

¹REC -- Re – examination registration for CE

component of a course

¹RES -- Re – examination registration for SEE

component of a course

¹CE -- Continuous Evaluation

Laboratory/Project work -- LPW Semester end examination -- SEE R. Science. (PG) -- R.

¹ M.S.E & B.S. E *Deleted*

R. SCIENCE (PG) 1. PROGRAMMES - Annexure 1

The Post Graduate Degree Programmes in Science, leading to the degree of Master of Biotechnology, Biochemistry and ² Microbiology are offered by Nirma University. All Programmes are full time, of two years duration and are approved by Nirma University, under the faculty of science - Life Sciences. The Programmes offered are listed in Annexure 1[#].

Intake: To be decided by the Academic Council from time to time.

R.SCIENCE. (PG) 2A. ELIGIBILITY FOR ADMISSION

A student seeking admission to any Programme must fulfill the following criteria:

OR

³ The eligibility criteria should be Bachelors degree under 10+2+3/4/5, pattern of education in Chemistry, Biochemistry, Botany, Zoology, Microbiology, Life Sciences, Environmental Sciences, Bio-technology, Agricultural, Veterinary, Fishery & Dairy Sciences, Pharmacy, Medicine (MBBS), BDS, Bioinformatics, Genetics, Medical Laboratory Technology, BHMS, BAMS, B.Tech./ B.E. Biotechnology, Physiotherapy and Bio-medical Engineering with at least 50% marks as aggregate of all the semesters / years

OR

³ He should have passed any other qualifying degree/diploma examination considered as equivalent by Nirma University (with minimum 50% marks or equivalent CPI).

³ He should have passed the qualifying examination of Bachelor of Science from a recognized university with minimum 50% marks (or equivalent cumulative grade point index),

² Amended by addition vide noti No. NU-173 dated 9.4.2009, BoG mtg-27.3.09, resol-5(a)

 $^{^{1}}$ Amended by substitution & deletion vide noti No. NU-28 dated 20.04.2012, BoG mtg-30.03.12, resol-5(G)

Amended by addition/substitution vide noti No. NU-35 dated 20.04.2013, BoG mtg-30.3.13, resol-5(C)(i)

[#] Amendments in the list of programmes are shown in Annexure - 1.

2B. DETERMINATION OF MERIT OF ADMISSION

- 1. Admission shall be given on merit by adopting one of the following methods as decided by the Academic Council.
- (a) Marks obtained in Qualifying Examination.

OR

(b) The ENTRANCE TEST conducted by the NIRMA UNIVERSITY.

 $\cap R$

(c) Marks obtained in Entrance Test and qualifying examination, weightage of which shall be decided by the Academic Council.

 $\cap R$

(d) Any other method to be decided by the Academic Council.

R.SCIENCE (PG) 3. CATEGORIES OF COURSES

The following categories of courses are offered in the programmes.

3.1 CREDIT COURSES

These are compulsory courses. They are included in the schedules of various semesters. Credits earned for these courses will be considered for evaluating the academic performance levels of the student.

3.2 SUPPLEMENTARY COURSES

These courses will be offered as and when necessary. They are compulsory courses. They are not included in the schedules of the semesters but are shown as additional courses, wherever applicable.

No credits are assigned to these courses. However performance in these courses will be considered while deciding continuation of the student in the Programme or his registration in higher semester.

NOTE: Hereafter, the Credit Courses will be referred to simply as "courses". Supplementary courses will be specifically mentioned as such.

R.SCIENCE (PG) 4. COMPONENTS OF A COURSE

The academic schedule of the courses may consist of one or more of the following components with their respective scope as described.

- LECTURES (LECT) Teaching learning processes conducted in real and virtual class rooms with various multi media aids.
- TERM ASSIGNMENTS (TA)- Supplementary to classroom teaching. It consists
 of one or more of the following teaching strategies.
 Each strategy will form a UNIT.

Self study exercises/quizzes/tests/objective questions/viva term paper, case study analysis, seminars etc.

• LABORATORY WORK / PROJECT WORK (LPW) -This component consists of one or more of the following practical exercises / projects.

Each set of practical exercises / project will form a UNIT.

Laboratory experiments and their reports.

Viva, Synopsis, Seminar, industrial / professional training, analysis, design, research problems, Thesis work etc.

¹R.SCIENCE (PG) 5. EXAMINATIONS

For assessment of the course, Examination/s are prescribed for each component. These examinations are as follows.

LECTURES -- 1 Semester End Examination (SEE)

¹Continuous Evaluation -- CE examination CE may include written

examination/s and Term Assignments (TA)

Examination

LABORATORY/PROJECT WORK -- LPW examination

R. SCIENCE (PG) 6. COURSE COORDINATOR, ADVISOR

The Dean will appoint faculty members for the following designations. The main functions of each designation are also mentioned.

COURSE COORDINATOR (to be appointed for each course) – to coordinate all matters related to the conduct and assessment of a course.

FACULTY ADVISOR (to be appointed for each semester) – to look after all matters, at the department level, regarding Registrations and Re-registrations of courses and also to provide guidance and counseling to students regarding these issues.

R. SCIENCE (PG) 7. TEACHING SCHEME -- Annexure 2

The teaching scheme for the course as a whole will be referred simply as Teaching Scheme.

The teaching scheme of the Units of TA and LPW will be referred as Supplementary Teaching Scheme.

The courses offered in each programme (semester- wise) and their teaching schemes are given in the Semester schedules (Annexure 2). The schemes show the various courses, distribution of teaching hours, course component/s, examinations, component weights and credits allotted to each course.

In certain Programmes, the teaching scheme will include, if necessary, summer vacation training in industry / professional / research organizations.

¹ Amended by substitution vide noti No. NU-28 dated 20.04.2012, BoG mtg-30.03.12, resol-5(G)

The Supplementary Teaching Schemes of various Units of TA and LPW together with their *inter se* weights, (within the overall weights of TA and LPW), shall be formulated by the course coordinator in consultation with HOD. These schemes will be approved by the Dean, Faculty of Science before being notified to the students in the beginning of each semester.

R.SCIENCE (PG) 8. SEMESTER AND TERM

Normally courses will be offered semester-wise as given in the teaching scheme. However the institute may offer certain course/s of a semester in both terms of an academic year in order to help students to pursue their study more expeditiously.

¹R. SCIENCE (PG) 9. REGISTRATION IN COURSES

- 9.1 There will be ¹five categories of Registrations. All ¹five categories will be collectively referred to simply as Registration. Individual categories will be referred to by their symbols.
- 9.2 All Registrations, wherever applicable, will be subject to availability of courses.
- 9.3 Registration will be done course-wise.
- 9.4 CATEGORIES OF REGISTRATION
- 9.4.1 The ¹ Five categories of Registration are:

IR- Initial registration,

RPR – Repeat registration with two sub categories ¹ RL (Repeat registration for studying LPW component of a course) and ¹ RS (Repeat registration for studying all components of a course)

RER – Re-examination registration ¹with two sub categories REC (Re examination registration of ¹CE component of a course) and RES (Re examination registration of SEE component of a course.)

9.4.2 Initial Registration (IR) - In order to study a course for the first time, the student will register under the IR category. This will imply regular attendance for study of all components of that course and appearing at all examinations thereof.

IR registrations for courses of a semester are to be done for ALL courses of that semester as shown in the teaching scheme; IR registration will not be permitted for lesser number of courses. The student who so registers (IR) for all courses of a semester will be considered as having been registered in that semester.

9.4.3 Repeat Registration (¹RS)

The student whose Term is not granted for any registered course (R.12) will have to repeat the study of that course. He will have to seek fresh registration for this purpose. The category of such registration will be as follows:

Term not granted Registration Category Category

¹NT ¹RS

¹RS - This category will imply regular attendance to study all components (i.e. LECT, CE, LPW/*PW as applicable) and appearing at all examinations thereof.

¹ Amended by substitution vide noti No. NU-28 dated 20.04.2012, BoG mtg-30.03.12, resol-5(G)

- 9.4.4 RE-Registration (RER) This registration is necessary for appearing again in a particular examination of a course. It will not involve regular attendance for studying that course.
- 9.4.5 RPR Registration This term will be used wherever necessary to include registrations of both categories ¹RL and ¹RS.

9.5 APPROVAL OF REGISTRATION

Every student must apply in the prescribed form for registrations, as applicable. The decision on the student's request will be based on the availability of courses and applicable Regulations. The Director will issue appropriate orders for processing the application, including scrutiny, verification and final orders.

9.6 SIMULTANEOUS REGISTRATION IN DIFFERENT CATEGORIES

- 9.6.1 Semesters will be registered in chronological order.
- 9.6.2 A student will not be permitted to register (IR) in the next higher semester if the total number of ¹ courses with RER and or RPR as applicable in his case exceeds Three.
- 9.6.3 The student who becomes eligible for IR registration in a higher semester must first register for all RER and RPR registrations as applicable in his case.
- 9.6.4 The student who is not eligible to register in a higher semester in any term must register, in that term, for all RER and RPR registrations applicable in his case.

R. SCIENCE (PG) 10. GRADES

PERFORMANCE LEVELS

The Performance level of the student in any examination will be adjudged in terms of the letter grades given in Table 1.

Table 1		
Grade	Qualitative	Equivalent
	Meaning	Grade Point
(G)	(GQ)	(g)
A+	Excellent	10
A	Creditable	9
B+	Very Good	8
В	Good	7
C+	Satisfactory	6
C	Conditional Pass	5
FF	Fail	0
IF	Interim Fail	0

R. SCIENCE (PG) 11. SCOPE OF EXAMINATIONS AND ASSESSMENT

In order to pass a course, the students will have to pass all examinations of that course. The scope of the examinations and the method of assessment will be as follows.

¹ Amended by substitution vide noti No. NU-28 dated 20.04.2012, BoG mtg-30.03.12, resol-5(G)

11.1 In all mark based assessment, the overall percentage marks, if fractional, will be rounded off to the next higher integer value.

¹11.2 ¹CE EXAMINATION (IR and RPR registration)

All exercises in ¹CE will be continuously assessed during the semester and given marks. Oral examination will be included in the assessment at all possible stages. The total marks of all Units of ¹CE will be aggregated based on their *inter se* weights to give the overall percentage of marks in the ¹CE examination.

¹If the student fails in CE examination, the student will not be permitted to appear in SEE of that course and the student will have to seek fresh registration as REC in subsequent semester, if the student is otherwise eligible.

¹11.3 LPW EXAMINATION (IR and ¹RL/RS)

All assignments in Laboratory / Practical Work will be continuously / periodically assessed (as applicable) during the semester. In addition there will be an Examination for overall assessment at the end of the semester. Oral examination will be included in the assessment at all possible stages. Each assessment will be given marks. The total marks of all Units of LPW will be aggregated based on their *inter se* weights to give the overall percentage of marks in the LPW examination.

The course coordinator will notify the procedure for assessment, review, viva voce etc to the students in advance.

¹If the student fails in LPW examination, the student will not be permitted to appear in SEE of that course and the student will have to seek fresh registration. as RL in subsequent semester, if the student fulfills the condition of granting the term (R-12)"

11.4 ¹ (M.S.E/B.S.E) deleted

11.5 SEMESTER END EXAMINATION (SEE)

(IR and RPR)

The expression "Semester end examination" refers to the written examination of a course taken at the end of a semester. This will cover the full syllabus.

The assessment will be mark based as per normal practice in written examinations.

11.6 SCHEDULES OF SEE

SEEs of all courses of the programme, as per the teaching scheme, will be held at the end of both terms.

11.7 Absence in any examination with or without Regular Approval will be assigned Zero mark.

¹ Amended by substitution & deletion vide noti No. NU-28 dated 20.04.2012, BoG mtg-30.03.12, resol-5(G)

¹R. SCIENCE (PG) 12. GRANTING OF TERM

- **12.1** The Term will be granted course-wise.
- 12.2 The granting of Term for all the students (IR, RPR) will depend on the compliance of maintaining minimum 85 % attendance in all components of the course (as applicable) Regular approval for remaining absent up to 15 % is necessary.

Note: In the case of long duration training or project work, where final examination is not possible before the Term ends, a certificate by the course coordinator that the student's progress is satisfactory will be acceptable.

- 12.3 The student who has been given category NT may appeal to the Appeal Committee giving full reasons for his default. The decision of the Committee in all such cases will be final.
- **12.4** The student who is given NT category will not be permitted to appear in SEE of the concerned course. He will also be given grade FF in that course.

R. SCIENCE (PG) 13. GRADES IN EXAMINATIONS

¹13.1 ¹CE and LPW EXAMINATIONS

Grades for the ¹CE and LPW examinations will be given on the basis of the percentage marks obtained by the student in the respective examinations.

Table 2(a) shall be referred for converting percentage marks into corresponding Grades (G) for all examinations except ¹CE, and Table 2 (b) for ¹CE.

Table 2 (a)		<u>Table 2 (b)</u>	
All examination except CE % marks G	ons rade(G)	<u>for CE</u> % marks Gr	ade(G)
90 and above	A+	90 and above	A+
80-89	A	80-89	A
70-79	B+	70-79	B+
60-69	В	60-69	В
50-59	C+	50-59	C+
Less than 50	¹ IF	X 45-49	C
		X Less than 45	¹ IF

13.2 GRADE IN SEE

In the normal course, a student (IR, RPR) and category GT will appear for SEE after his ¹CE and LPW examination, in the same semester.

¹ Amended by substitution vide noti No. NU-28 dated 20.04.2012, BoG mtg-30.03.12, resol-5(G)

Amended by substitution vide noti No. NU-082 dated 20.05.2017, BoG mtg-18.4.17, resol-4(D)(V)(a)

Grade for the performance in SEE will be given on the basis of the percentage marks obtained by the student. Table 2(a) shall be referred to for converting percentage marks into corresponding grades (G) except that for categories - (i) and (ii) given below, grade IF will be given:

Performance	Grade
(i) Fail	IF
(ii) Absence	IF

Notwithstanding anything contained in terms of giving 'IF' grade as shown in (ii) in the table above, the Director of Institute will scrutinize the genuineness about remaining absence in Semester End Examination through Appeal Committee and if the Director, after said scrutiny, decides to show 'Ab' instead 'IF' in (ii) of above table then in the grade sheet, instead of 'IF', 'Ab(S)' shall be mentioned in such cases only.

13.3 GRADE IF IN SEE

The student who obtains grade IF in SEE will be allowed to appear in Three consecutively available subsequent SEE of the concerned course. The criteria for giving grades in these three attempts will be the same as given in R. 13.2. However, grade IF in the final attempt will be converted into grade FF.

^{1&6}13.4 COURSE GRADE

Course grade will be given only when the student passes all component examinations. Marks of SEE, ¹CE and LPW (as applicable) examinations shall first be aggregated on the basis of the component / *inter se* weights given in the Teaching Scheme. After the aggregate marks of the entire group are so calculated, the performance of each student in the course as a whole will be assigned a grade based on his aggregate percentage viewed in relation to the overall performance of the group.

In giving relative grades, the number and designation of various grades (G) shall be kept the same as shown in Table 2(a). ⁶ The course coordinator will decide the cut off percentages of relative grading subject to the guidelines prescribed by the Academic Council.

The Transcript will show only the Course Grade and not the Component Grades.

13.5 The provisions of R. 13.4 are subject to the maximum permissible duration to pass courses of first two semesters and the entire Programme given in R.17.

⁴ Amended by deletion vide notification no. NU-77 dated 19.4.2006, BoG mtg-31.3.2004, reso.-12

⁵ Amended by addition vide notification no. NU-1345 dated 3.11.2006, BoG mtg.-13.10.2006, reso.-5(b)

⁶ Amended by substitution vide notification no. NU-1345 dated 3.11.2006, BoG mtg-13..10.2006, reso.-5(a)

Amended by substitution vide noti No. NU-28 dated 20.04.2012, BoG mtg-30.03.12, resol-5(G)

⁵⁻A Added vide noti. No. NU-261 dated 11.05.2016, BoG mtg.-16.04.16, reso. No. 3(B)

R. SCIENCE (PG) 14. INTERPRETATION OF GRADES

- (a) Grade A+ should be given with great care and discretion. Normally it should be reserved for a very distinguished performance, with respect to both marks and quality of output.
- (b) ¹Grade C+ is the minimum for passing. A student getting grade C in CE can improve his performance (at his option) by repeating CE in subsequent semester. Better of the grades obtained in the two examinations will be considered.
- (c) Grade FF -
 - (i) If this grade is given because of ¹NT (R-12), the student will have to seek ¹RS registration respectively for repeat study of the course.
 - (ii) If the grade FF is given due to failure in the final admissible attempt in SEE, the student will have to seek ¹RS registration for repeat study.
- (d) Grade IF This is an interim fail grade given in ¹CE,LPW and SEE/SPE as under:

<u>Performance</u>	<u>Grade</u>
Fail in CE	IF(C)
Fail in LPW	IF(L)
Fail in SEE/SPE	IF(S)
X Fail in Overall Course	IF(O)

Note: If a student getting IF(O) in a course, then he/she can improve his/her performance by repeating CE (all components of CE) of the course in the subsequent semester depending upon his/her choice. In such case, he/she will also reappear in SEE.

R. SCIENCE (PG) 15. PASSING STANDARDS

15.1 PASSING A COMPONENT

The standards of passing a component / course / Programme are given below. (Min C+ means grade C+ or a better grade)

COMPONENT -- Min C+ in each component examinations i.e. CE, LPW and SEE/SPE

CE -- Min C+ (in case of grade C, refer regulation for Gracing)

LPW -- Min C+

SEE -- Min C+
COURSE -- Min C+
-- Min C+

GRACING -- A student not satisfying condition given in R 15.1 for passing a given course will be deemed to have been "Graced for passing" the course if the student fulfills the following two conditions:

¹ Amended by substitution vide noti No. NU-28 dated 20.04.2012, BoG mtg-30.03.12, resol-5(G)

- (i) Grade C in ¹CE
- (ii) Min C+ in LPW and SEE (as applicable) and Min C+ in a course

A student will be allowed a total of only two Gracing in the entire programme.

No special mention about gracing will be made in the transcript. No Gracing will be allowed in Major Project (Thesis).

- **15.3** PROGRAMME --- Total credits of all credit courses of the Programme with CPI min 6.0
- 15.4 FAILURE Student not satisfying these criteria of Passing / Gracing / will be considered as having Failed in the Examination / Component / Course / Programme.
- **15.5** The student who has once passed an examination will not be allowed to appear at it again.
- **15.6** Grades/marks obtained by the student in examinations passed by him will be carried forward as necessary.

R. SCIENCE (PG) 16. PERFORMANCE LEVELS

16.1 INDICES

The performance level of the student in credit courses at different stages of his study is given by the following indices. All index values will be rounded off to the second place of decimal.

PIC -- Performance index for the course

PPI -- Progressive Performance Index

SPI -- Semester Performance index

CPI -- Cumulative Performance index

PIC = Equivalent grade point (g) corresponding to the course grade (R. 10 and 13.4)

PPI -- (Up to any stage under consideration)

PPI = (i1 c1 + i2 c2 + i3 c3) / (sum of credits of all courses registered up to

that stage) where:

i1, i2, i3.... are PIC values of CREDIT COURSES passed and c1, c2, c3..... are the credit values of the respective courses.

- SPI -- This index is similar to PPI except that the stage to be considered is the end of a semester.
- CPI -- This index refers to the entire programme. It is calculated when the student passes the programme. The method of calculation is the same as for PPI or SPI but the summation is for the courses of all semesters of the programme.

16.2 CLASS AND PERCENTAGE (%) MARKS

In case an equivalence between CPI values and Class / % marks is desired, the same can be obtained as given below:

% marks = (CPI - 0.5)*10

CLASS

CPI Value Equivalent Class

6.00 to 6.49 Second 6.50 to 7.49 First

7.50 and above First – with distinction

R. SCIENCE (PG) 17. CANCELLATION OF ADMISSION

- **17.1** The admission in the Programme of the following categories of students is liable to be cancelled.
 - (i) Failure to earn credits for all courses of semester I within two years of admission to the Programme.
 - (ii) Failure to earn credits for all courses of semester II within two and a half years of admission to the Programme.
 - (iii) Failure to earn requisite credits and CPI minimum 6.00 to pass the Programme within three years of admission to the Programme.

⁷The student, whose admission is so cancelled, can appeal to the Appeal Committee. The Committee may grant an extension only upto one additional semester for one of the categories falling under 17.1 (i), (ii) or (iii) for clearing the courses in deserving cases, provided the student gives a viable assurance to make up the shortfall within that period.

⁸Notwithstanding anything contained above, the President may consider the cases of such students falling under category (i), (ii) & (iii), if the student has cleared all the courses and have earned the requisite number of credits except one course, on an appeal filed. The President will consider such appeal on the recommendation of the appeal committee prescribed under the regulations for the purpose and after considering the genuineness of the case may give one additional attempt to the student concerned to clear the remaining course.

- 17.2 The student who satisfies R. 17.1 (i) and (ii) but who is unable to satisfy R.17.1 (iii) only because of delay in completing the Thesis work may apply, giving full reasons, to the HOD for an extension to submit his Thesis. The HOD may recommend to the Appeal Committee to grant an extension of up to two years in addition to the limit specified R. 17.1 (iii). The decision of the Appeal Committee in the case will be final.
- 17.3 If a student avails of the benefit of R. 17.2, and he passes the Programme, his Grade for passing the Programme will be pegged at C+ and CPI at 6.0.

R.SCIENCE. (PG) 18. EXAMINERS

All continuous assessments will be carried out by the faculty concerned. All other assessments / examinations will be carried out by a panel of at least two examiners. The extent of associating external experts with the examinations, selection and appointment of all examiners will be decided by the Dean in consultation with a committee appointed for this purpose.

R. SCIENCE (PG) 19. SUPPLEMENTARY COURSES

The courses of this category are basically bridge courses to bring students of different universities to a common level in certain areas of basic importance to the Programme and courses which will be felt necessary.

The Dean of the Faculty of science is empowered to decide these courses, their curriculum, teaching and examination schemes, passing standards and such other matters as may be necessary for efficient conduct of the courses.

Amended by addition vide notification no. NU-101 dated 13.4.2007, BoG mtg.-31.3.2007, reso.-3(d)

Amended by addition & then substitution vide Notification No. NU-1864A dated 08.11.2007, BoG mtg.-30.10.07, reso. No.5(a) & then, Notification No. NU-125 dated 14.10.13, BoG mtg.-28.09.13, reso. No. 5(b)

Annexure-I [Refer: R.SCIENCE(PG)-1]

List of Programmes:

- 1. M. Sc. in Biotechnology
- 2. M. Sc. in Biochemistry
- 3. M. Sc. in Microbiology
- ⁹4. M.Sc. in Cosmetic Technology

 $[\]overline{^9}$ Amended by addition vide notification no. NU-100 dated 16.10.2014, BoG Mtg. Reso.8(d) - Fur. Info.