

**For Circulation
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Performance Mapping of Scientists

**(based on Recommendations of Committee for
Revision of ARP of Scientists in CSIR)**

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V.1.0 1	5 th Feb '10	Output based scoring	Committee for Revision of ARP	DG, CSIR
V.1.0 2	19 th Feb '10	Common form both R & D and R & D Mgmt. Scientists	Committee for Revision of ARP	
V.1.0 3	22 nd Mar '10	10 point Questionnaire to capture output	Committee for Revision of ARP	
V 1.04	4 th Apr '10	Review by Collegium and Empowered Committee	Committee for Revision of ARP (at Directors' Conference)	
V 1.05	1 st Jun '10	Additional questions for those in PB-4 and Individual performance linked to Lab performance	Committee for Revision of ARP & DG, CSIR (Video Conference)	
V 1.06	18 th Jun '10	Work report to include role in AcSIR	Committee for Revision of ARP	
V.1.071	20/22 July '10	Consideration of influence of grading over residency period	Disc with DG by GP & NRI	
V.1.072	29 July '10	Consideration of influence of grading over residency period	Disc with DG by GP & NRI	
V.1.073	04 Aug '10	Comments received from Dr. Sivaram, Director, CSIR-NCL, Pune		
V.1.074	30 Aug '10	Lab score not to be included for performance evaluation	Discussions by GP & NRI with DG	
V.1.075	02 Nov '10	Discussion regarding individual score/Grade etc.	Discussions by NRI with DG	
V.1.076	18 Dec '10	Discussion regarding categorization of knowledge portfolios etc.	Discussions by NRI with DG	
V.1.077	11/17 June'11	Telconf with DG, Mr Girish Chopra (RAB) & Mr K K Chopra, CSIR-Hq on 11June11 & further Disc with Mr Girish Chopra, RAB & Mr K K Chopra, CSIR-Hq on uniform & consistent implementation of PMS with recent RAB policies/circulars	Discussions by NRI with DG, Dr Sivaram, Mr Girish Chopra (RAB) & Mr K K Chopra, CSIR-Hq	

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1.0 Introduction

Once an annual ritual, performance appraisal has become a continuous process by which an employee understands Council's and the Laboratory's goals and his or her progress towards contributing to them are measured. Performance measurement is an ongoing activity for all R&D Scientists and R & D Management Scientists.

Performance measurement uses the following indicators/parameters of performance, as well as assessments of those indicators.

- i) **Quantity:** The number of units earned is a good objective indicator of performance. One needs to be careful of placing too much emphasis on quantity, lest quality suffer.
- ii) **Quality:** The quality of work performed can be measured by several means. The percentage of work output that must be redone or is rejected is one such indicator. In a research or support environment, the percentage of studies/services converted to effective output and outcomes is an indicator of scientist's quality, capacity, competence and ability.
- iii) **Timeliness:** How fast work is performed is another performance indicator that should be used with caution. In field of research, this has to be weighed against the Laboratory's average and overall performance.
- iv) **Cost-Effectiveness:** The cost of work performed should be used as a measure of performance only if the employee has some degree of control over costs.
- v) **Absenteeism/Tardiness:** An employee is obviously not performing when he or she is not at work. Other employees' performance may be adversely impacted by absences, too as most of the measure of success of projects in CSIR are a team effort.
- vi) **Creativity:** It can be difficult to quantify creativity as a performance indicator, but in R&D tasks, it is vitally important. Scientists and team leaders/project leaders/Division Heads should keep track of creative work examples and attempt to quantify them.

- vii) Adherence to Policy/Vision/Mission:** This may seem to be the opposite of creativity, but it is merely a boundary on creativity. Deviations from policy/vision/missions indicate an employee whose performance goals are not well aligned with those of the laboratory.
- viii) Personal Habits:** They may not seem performance-related to the employee, but some personal habits, like gossip, can detract from task/work performance and interfere with the performance of other team members. The specific behaviors should be defined, and goals should be set for reducing their frequency.
- ix) Work ethics:** Most people know how to conduct themselves for work with work ethics, however there is a possibility that someone needs to be told. Examples of inappropriate appearance and conduct should be spelled out, their effects upon the employee's performance and that of others explained, and corrective actions defined.

2.0 APAR/ARP Procedure Revision Committee

One of the main reasons for revision in procedure was due to the DoPT circulars regarding maintenance of Annual Appraisal Reports, Transparency and Fairness etc. An APAR Procedure Revision Committee under the chairmanship of Dr. Nagesh R Iyer was constituted to ensure adoption of participative determination of performance dimensions and objective method of assessment and communicating of Annual Performance Appraisal reports including overall grades to the employees. The Committee revisited the existing system and a system has been proposed to ensure objective methods of assessment. Further, the system proposed is flexible and is proposed to be integrated with the Enterprise Application Solution undertaken by CSIR under the CSIR Transformation initiative.

3.0 Present System

The Assessment process in the present system goes through the following three stages of evaluation

- i) Self Appraisal
- ii) Appraisal by Reporting Officer
- iii) Appraisal by Reviewing Officer

i) Self-Appraisal:

The scientist appraises his or her own performance, in many cases comparing the self-appraisal to reporting officer's review. Often, self-appraisals can highlight discrepancies between what the employee and management think are important performance factors and provide mutual feedback for meaningful adjustment of expectations.

The employee gives both qualitative and quantitative description of the Tasks assigned to him during the assessment year and the actual outcomes against each task. This report is then reviewed by the reporting officer who evaluates the employee based on the tangible and intangible deliverables of the employee.

Performance indicators must be assessed by some means in order to measure performance itself. Here are some of the ways in which performance is assessed from the aforementioned indicators.

ii) Appraisal by Reporting Officer:

A reporting officer appraises the employee's performance and delivers the appraisal to the employee through the Reviewing Officer/Head of the Institution. Appraisal by Reporting Officer is through critical examination and study of the work report submitted along with the self-appraisal form.

iii) Appraisal by Reviewing Officer/Normalization Committee:

The reviewing Officer and or the Normalization Committee objectively looks at the self-appraisal of the candidate, report provided by the corresponding Reporting Officer and the overall laboratory performance/average. Based on

these inputs, a critical appraisal is made to agree or, to upgrade or downgrade the marks awarded with recording of justification for such an action. The entire appraisal with its contents is communicated to the employee. Members of the Normalization Committee should be at least of the rank of Scientist Gr. IV (6).

4.0 Proposed System

After reviewing the personnel policies of CSIR for the last four decades, it is strongly felt that the self appraisal methodology is the best form of evaluation that is completely transparent and can be made highly objective. The concept of reporting officer and reviewing officer has been done away with. This would make the process of assessment easier, simpler and straightforward.

A novel method has been designed to capture the work outputs and outcomes of the scientist through a questionnaire given below. The scientists are expected to provide detailed/additional relevant information at appropriate places as Annexures suitably marked/identified which in their opinion truly reflects the measure of performance.

The proposed system also has three stages of evaluation which are as follows:

- Stage I – Self Appraisal by Scientist (by filing a questionnaire)
- Stage II – Evaluation by Collegium which is done by assigning marks based on the inputs provided by the Scientist through the Self Appraisal Questionnaire.
- Stage III – Evaluation by Empowered Committee based on the inputs provide by the Collegium

Individual forms have been designed in MSWord to be filled by the Scientist, the Collegium and the empowered committee.

4. 1 Stage I: Self Appraisal

The purpose of the self-appraisal is to seek relevant information in a manner that would clearly bring out the contributions/achievements, etc. of the scientist for objective evaluation by the Collegium.

Goals of the Appraisal Process

- facilitate communication of all aspects of performance between the scientist and the Collegium/Empowered Committee
- identify areas in which improvement and learning will help the scientist become more successful in the future, allowing him/her to make further contributions to CSIR
- identify individual development needs, desires and plans
- establish a permanent record of the employee's work history, which is as straight-forward and objective as possible
- serve as one of the basis for assessment for promotion and
- incorporate goals for meeting career development plan of the scientist

Considering the above, a questionnaire has been designed for the Scientists. This has two parts. Part I has 2 questions common to Scientists in Pay Bands 3 and 4 (PB3 and PB4). Part II has 3 questions that need to be answered by only those in PB4. The scientists have to fill the Questionnaire as detailed in Appendix-A. The scientist has to provide detailed information through annexures wherever required along with other basic details based on the Work Report format provided in Appendix-B. *It is not expected that all sections of Appendix-B will be relevant to the concerned scientist and will be filled-in. ONLY those sections/sub-sections that are closely relevant to the concerned scientist need to be responded to or filled-in.* This entire set has to be forwarded to the Chairman of the Collegium.

Questionnaire – Part I
Common to all (those in PB3 & PB4 scales)

Sl. No.	Question
	(Provide additional supporting information as annexures in the Work Report format as per Appendix-B wherever necessary. It is not expected that all sections of Appendix-B will be relevant to the concerned scientist and will be filled-in. ONLY those sections/sub-sections that are closely relevant to the concerned scientist need to be responded to or filled-in.)
1)	What do you consider to be your most important achievements sector-wise for the past year? List sector-wise contribution in one or more areas. (Public goods/Private goods/Strategic goods/Societal goods*).
2)	Define your major knowledge portfolio – state whether you are involved in Knowledge Generation, Knowledge Development or Knowledge Management. Please elaborate by filling in the appropriate sections of the form provided in Appendix B.

Questionnaire – Part II
(for those who are on PB4 scale)

3)	How has your contribution enhanced the prestige of the laboratory?
4)	In light of your current capabilities, your performance against past objectives, and your future personal growth and/or job aspirations, what activities and tasks would you like to focus on during the next year? Again, also think of development and experiences outside of job skills - related to personal aims, fulfillment, passions, etc.
5)	What sort of training/experiences would benefit you in the next year? Not just job-skills - also your natural strengths and personal passions you'd like to develop - you, your work and team can benefit from these

***Broad definitions of Public, Private, Social and Strategic Goods**

i) Public

Basic research as reflected by publications, development of standards, databases, etc., and the policy support to government could be classified under public goods as they meet the criteria of non-rivalry and non-excludability.

ii) Private

Industrial training programmes, consultancy services, certification and testing services, and sponsored research are considered as private goods as beneficiary preferences is reflected in their willingness to pay for these services. Intellectual property, particularly patents, technologies, products, processes and copyrights are in the private domain, but public funds have been used both at their generation (project) stage and at the patenting stage.

iii) Social / Societal

Social/Societal good element is evident in activities, which generate livelihood opportunities to people located in far-off regions or to poor as in development of technologies, which use traditional knowledge, and use of local resources endowments. Examples include natural hazard/disaster mitigation, environmental benefits from development use of technologies such as for coal-washing, mine safety, eco-friendly products and processes, pollution prevention and abatement.

iv) Strategic

Strategic goods are those that are visible in the activities directly related to achieving self-reliance and services that meet the national/indigenous needs including national security for which no solution is available and enables creating technological options and 'resource centres', 'spin-offs', etc.

4.2 Stage II: Collegium

After submission of the self-appraisal by the scientist, the Committee recommends two-level evaluation process to be followed. The first level of evaluation is by a Collegium to be duly constituted by the Director/DG in case of CSIR-HQ for different grades/levels of scientists and the second level of evaluation is through an Empowered Committee that also includes the Head (Director) of the Laboratory.

The following is the proposed composition of the Collegiums for evaluation of Scientists in their respective Grades to be constituted by the Director of the Laboratory or DG in the case of CSIR-HQ.

Collegium No	Scientist Grade	Composition of Collegium	
		Group/Grade	Nos.
I	Scientist B and Scientist C	Scientist E-I/EII	1
		Scientist F/G	1
		Scientist from the Empowered Committee	1
II	Scientist EI	Scientist EII/F	1
		Scientist G	1
		Scientist from the Empowered Committee	1
III	Scientist EII	Scientist F/G/H	2
		Scientist from the Empowered Committee	1
IV	Scientist F	Scientist G/H/I	2
		Scientist from the Empowered Committee	1

The Collegium should segregate the self-appraisal forms received as per the major knowledge portfolio defined by the scientist. The evaluation of the scientist will be based on the knowledge portfolio defined therein.

The composition of the Collegium is only indicative and the actual number of members under each Collegium and the number of Collegiums can be decided based on the size and composition of scientists in the Laboratory/Division. For a large size lab, Director may like to have collegiums for every division. However, a lab can have up to a maximum of SIX divisions. A scientist nominated from the Empowered Committee will act as the Chairman. However, it may be seen that total number of members in the Collegium including the Chairman should be odd.

4.2.1 Computation of Resultant Score of Scientist: The Collegium evaluates the responses provided by the concerned scientist to the Questionnaire (Part I or Parts I & II as the case may be) and assigns a score after careful study. Depending on the performance of the individual, the score of the candidate assigned by the collegium will be in the band of 0.5 to 1.0 (both included and exceptions in cases as applicable/explained later).

It is recommended that the score assigned should relate to the overall performance of the laboratory. A laboratory may choose through consultations and discussions among the members of Empowered Committee and Collegium a robust and reasonable method to determine performance average lab score that is normalized to a score of 1.0 before start of this exercise.

Sr. No.	Possible Resultant Individual Scores	Equivalent %	Grade
1.	1.1	Exceptional	Exceptional (forms part of outstanding) [#]
2.	1.0	90 and above	Outstanding
3.	0.9	85-89	Excellent
4.	0.8	70-84	Very Good
5.	0.7	60-69	Good
6.	0.6	50-59	Satisfactory
7.	0.5	40-49	Need improvement

Individuals within the laboratory with exceptional performance or "outlier" can be given an individual score of 1.1. It may be noted that "outlier" or "Exceptional" forms part of the "outstanding" but is known as the "exceptional among outstanding"[#]. At the same time if the performance of the candidate is far below par and far away from the lab average, he may be graded below 0.7 stating clearly the reason that would be communicated to the candidate.

[#] please see overleaf for further explanation

A general explanation of the grades *but not necessarily exact* is given below:

Exceptional: Though “Exceptional” forms part of “outstanding”, these cases are “exceptional among outstanding”; these cases* will be put up by the Laboratory to CSIR for registration in the database of “Jewels of CSIR”. Individuals within the laboratory with exceptional performance or “outlier” can be given an individual score of 1.1. Exceptional means the performance is exemplary and falls into the top 16% of the scientists. Besides his performance in all round sectors/goods (public, private, societal, strategic, etc.), should have also received recognition in the form of prestigious awards such as Shanti Swarup Bhatnagar, fellowship of Academy, etc.

Outstanding (90 and above): Outstanding means **significantly exceeds CSIR’s expectations**. This is reserved for those whose performance during the review period falls into the top 33% of the scientists at their level. As a motivating factor and a strong support to pursue the outstanding work, the candidate receiving the “Outstanding” grade will be a potential candidate for assessment ahead of the normal residency period* in his present scientist grade if the same consistency is maintained.

Excellent (85-89): Excellent means **significantly exceeds expectations of the Laboratory**. This is for those whose performance during the review period is found to be above the average performance of the Laboratory.

Very Good (70-84): Very Good means that candidate **just meets expectations of the Laboratory; however there is scope for making significant contributions that would exceed the expectations.**

Good (60-69): means the candidate **just falls short of expectations of the Laboratory** and in achieving CSIR’s superior standards.

Satisfactory (50-59): **Needs to demonstrate additional effort and or undertake further skill development.** Identifies an area that would benefit from additional attention and resources and requires specific recommendations for areas of development.

Need Improvement (40-49): **Does not meet expectations of the Laboratory and well-below average.** Requires an immediate improvement plan with specific deadlines to meet goals to bring performance up to an acceptable level.

** The normal residency period and all related qualifying criteria including earlier/delayed assessment for a scientist in his corresponding grade is governed by the policy adopted by RAB. Therefore, no effort is made to detail the concerned criteria and other related matter as it is outside the scope of this committee.*

The form designed in MSWord for the scientist to be filled-in is given in Appendix-A, whereas the form for evaluation by the Collegiums is presented in Appendix-C. The Collegium also evaluates the following Behavioral aspects and assesses the employee accordingly. Please note that this is only a qualitative evaluation and therefore no marks are to be awarded.

A. PERSONAL ATTRIBUTES

1. Personality
2. Maturity and logical thinking
3. Level of self-confidence
4. Initiative and drive
5. Mental alertness

B. PROFESSIONAL COMPETENCE

1. Perception of organizational role
2. Competence to handle the job
3. Ability to Communicate (both in speech and writing)
4. Dedication and commitment to the job
5. Comprehension and appreciation of new development related to his job

C. MANAGERIAL CAPABILITIES

1. Ability to get along with colleagues
2. Willingness to accept responsibility
3. Decision making ability
4. Crisis handling
5. Qualities of Leadership

This is also presented as a part of Appendix-C for evaluation by the Collegium. The Collegium will state its comments on the overall qualities of the scientist including areas of strengths and if necessary areas needing improvement. Along with the evaluation of the scientist, the Collegium will also submit its opinion on the integrity of the scientist. The integrity and ethics part is mandatory as per the GOI OM No. 51/5/72-Estt "A" 20 May 1972 which is reproduced in Appendix-E. The evaluation report of the Collegium is then submitted to the Empowered Committee which does the final evaluation.

4.3 Stage III: Empowered Committee

The assessment of the Collegium would be reviewed by a duly constituted Empowered committee.

4.3.1 Constitution of the Empowered Committee

The Empowered Committee will be constituted by the Director of the laboratory or DG in the case of CSIR HQ. The Empowered Committee will consist of 2/4/6 Scientist G/H/I (depending on the strength of the laboratory) and the Director of the Laboratory or DG in case of HQ. However, it may be seen that total number of members including Chairman in the Committee should be odd.

The inputs of the Collegium are then carried forward to the Empowered Committee which can give its final evaluation and assign a suitable grade. This grade is communicated to the scientist. The Empowered Committee can revise the marks awarded by the Collegium citing clear and unambiguous justification. It is recommended that any upgrade or downgrade of marks at this stage can be considered based on the following:

- i) Basic character/nature of the Laboratory
- ii) Average performance of the Laboratory

The forms designed in MSWord for the empowered committee are given at Appendix-D. Forms generated as a result of the evaluation by the concerned Collegium and the Empowered Committee as per Appendices C and D are communicated to the employee. A typical flow of the appraisal process is shown in Fig. 1.

It is proposed to build the entire flow in the enterprise application being developed as part of the CSIR enterprise solution.

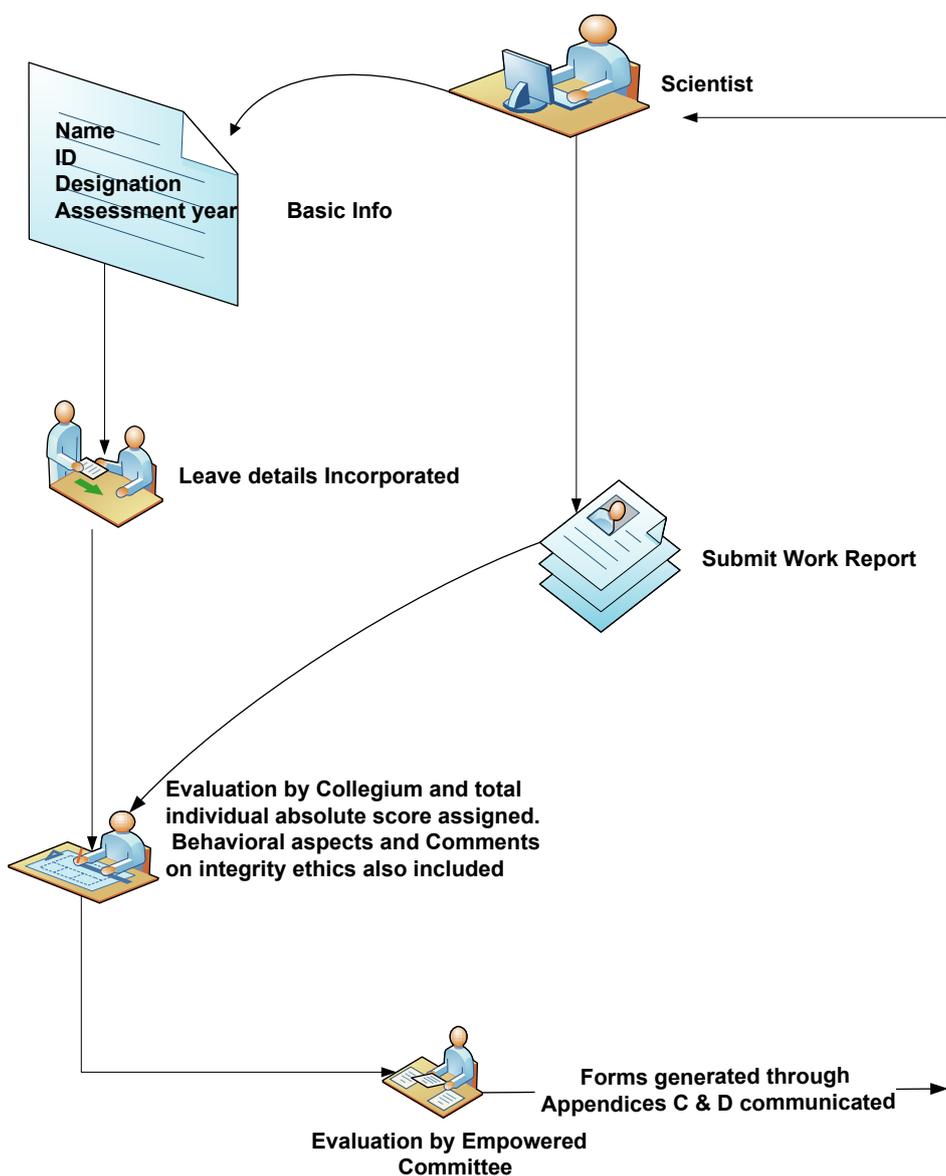


Fig. 1 Employee Appraisal Process

5.0 Acknowledgements

The authors are grateful to Prof. Samir K Brahmachari, Director-General, CSIR and Secretary, DSIR for constant support, guidance, advice and direction towards quantitatively assessing the scientist through performance value mapping. The authors would also like to thank Dr. S. Sivaram, Director, CSIR-NCL, Pune for his support and guidance in the process of revising the APAR procedures. Thanks are also due to Ms. S. Vijayalakshmi, Nodal Officer, Knowledge Network Unit, CSIR-SERC for developing the system and the processes using the IT tools. The authors gratefully acknowledge the inputs towards consideration of "exceptional" and rewarding cases of scientists by Dr. T. Chandrashekar, Director, CSIR-CEERI.

6.0 Concluding Remarks

It is proposed to integrate the performance evaluation procedure described in this document with the CSIR ERP solution that will further automate the acquisition of information such as leave records, publication and scientific contributions details through modules like OASIS or any other equivalent portal.

This is proposed to be made available as a web based application with a backend database that can serve as a repository for compiling information which can be very useful for scientists during their review/ assessment for the corresponding residency period for submission to CSIR-RAB.

7.0 References

- i) DoPT OM No. 21011/1/2005-Estt(A0(Pt-II) dt. 14th May 2009
- ii) DoPT OM No. 21011/1/2005-Estt(A0(Pt-II) dt. 23rd July 2009
- iii) CSIR OM NO. 5-1(44)/2007-PD dt. 3rd Feb. 2010
- iv) Minutes of the APAR Procedure Revision Committee meeting held on 19th February 2010 at New Delhi.
- v) CSIR's Guidelines & Proforma of the Annual Review of Performance for Group IV Scientist
- vi) Publishing Productivity of US Academic Scientists and Engineers : An Empirical Examination through Data Envelopment Analysis (Preliminary Draf) by Youngsun Baek, Research Value Mapping Program, School of Public Policy, Georgia Institute of Technology Atlanta, USA
- vii) http://www.csir.res.in/csir/external/heads/aboutcsir/information_act/rab.html



Council of Scientific & Industrial Research

Enter Your Lab Name

Assessment Year _____ To _____

BASIC INFORMATION

Identification Information

Name of Employee _____ Employee ID _____

Group/ Grade **--Select Group--** Date of Birth _____

Division/ **--Select Group--** _____

Date of J **--Select Group--** _____

Category **--Select Group--** _____

SC/ST/O **--Select Group--** _____

Email ID **--Select Group--** _____

Mobile N **--Select Group--** _____

About the Evaluation Period (and c _____ **nation)**

Status **--Select One--** _____

part year or full y **--Select One--** _____

Members-Collegi **--Select One--** _____

Members-Empowered Committee **--Select One--** _____

Full Year _____

Part Year _____

Have you filled the annual return on immovable property during this evaluation period

Categories information (for the period under evaluation)

CSIR Core Subject Area **--Select One--** _____

--Select One-- _____

Biosciences BioTechnology _____

Chemical Sciences Chemical Engg. _____

Civil Structural Engg. _____

Earth Environmental Sciences _____

Energy _____

Engineering Science Technology _____

Food Science Technology _____

Management of Science Technology _____

Material Science Technology _____

Area under which the activities have been refer. This may be different from the functional

EDUCATIONAL ATTAINMENT(S)					
Qualification	Specialization/ Subject(s)	Year	Division (0-Not Applicable)	University / Institute	Additional Information

EMPLOYMENT DETAILS				
Grade/ Post	Estt./ Lab/ Instt.	Duration From	Duration To	Remarks

LEAVE RECORD	
Please list leave record for the year being evaluated (include all leave)	
Type of Leave	No. Of Days
--Select Type *	
--Select Type --	
Earned Leave	
Half Pay Leave	
Commuted Leave	
Extra-Ordinary Leave	
Maternity Leave	
Paternity Leave	
Child Care Leave	
Special Disability Leave	
Hospital Leave	
Study Leave	
Sabbatical Leave	
Casual Leave	
Special Casual Leave	
Extended Casual Leave	
Restricted Holiday	

<p>Verified by COA/AO</p> <p>Date: <input style="width: 100px;" type="text"/></p>	<p>Signature of the employee</p> <p>Date: <input style="width: 100px;" type="text"/></p>
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Questionnaire – Part I

Common to all (those in PB3 & PB4 scales)

Please provide detailed/ additional relevant information at appropriate places as Annexures suitably marked/ identified in the Work Report format as per Appendix-B wherever necessary. It is not expected that all sections of Appendix-B will be relevant to the concerned scientist and will be filled-in. ONLY those sections/sub-sections that are closely relevant to the concerned scientist need to be responded to or filled-in.

1. What do you consider to be your most important achievements sector-wise for the past year? List sector-wise contribution in one or more areas (Public goods/ Private goods/ Strategic goods/ Societal goods).

2. Define your major knowledge portfolio – state whether you are involved in Knowledge Generation, Knowledge Development or Knowledge Management. Please elaborate by filling in the appropriate sections of the form provided in Appendix B.

Signature of the Employee

Place :

Date :

Questionnaire – Part II
(for only those in PB4 scale)

3. How has your contribution enhanced the prestige of the Laboratory?

4. In light of your current capabilities, your performance against past objectives, and your future personal growth and/ or job aspirations, what activities and tasks would you like to focus on during the next 2-3 years. Again, also think of development and experiences outside of job skills- related to personal aims, fulfillment, passions, etc.

5. What sort of training/ experience would benefit you in the next year? Not just job-skills-also your natural strengths and personal passions you'd like to develop - you, your work and team can benefit from these

Signature of the Employee

Place :

Date :

WORK REPORT FORMAT

(It is not expected that all sections/sub-sections of Appendix-B will be relevant to the concerned scientist and will be filled-in. ONLY those sections/sub-sections that are closely relevant to the concerned scientist need to be responded to or filled-in.)

Section I

Kindly ensure that there is no repetition while providing information.

I.1 Participation in the "R&D /R&D Managerial activities" of the Laboratory/Institute:

Sl.No	Title of Project	Project Category	Participating Agencies	Your Role as defined

I.2 Participation in "major programmes" and/ or "facility creation" identified at the National level:

Sl.No	Title of the Project	Coordinating Agency	Contribution being made by you as representative of your organization*

I.3 Acquisition, operation and maintenance of "major facilities" of the Laboratory/Institute:

Sl.No	Title of the Facility	Your role in brief*	Beneficiaries*

I.4 Enlist notable contributions (upto ten, indicating status like individual achievement, output of a team work/collaborative work etc.)
(not exceeding 150 words)

I.5 Highlight the significance/impact of your work on industry/ society/environment/nation as a whole

(not more than 100 words)

**not more than ten words.*

Section II

II.1 Publications

II.1.1 Papers published in Journals (during the year)

- (i) In peer reviewed/SCI Journal (*Indicate the total Impact Factor and citations of your publications*)
- (ii) In non peer reviewed Journal
- (iii) Review papers (non SCI Journal)

Sl.No	Authors	Title of the Article	Year of Pubn	Name of Journal	Country	Vol No. Issue, Pages	DOI

Note: Scientist is fully responsible for the accuracy of their references. All references must include

- ⇒ Author/editor last name plus initials (for six or fewer authors; if there are more than six authors, use "et al." after the sixth) or authoring agency
- ⇒ Year of publication
- ⇒ Full title of article or chapter (lower case)
- ⇒ Title of journal (abbreviated according to standard engineering journal) or book/proceedings in title case
- ⇒ City/state/country of publication and name of publisher
- ⇒ Volume and inclusive page numbers
- ⇒ DOI number, if available.

II.1.2 Papers published in Conference Proceedings

Sl.No	Authors	Title of the Article	Date/Year	Name of Conference	Venue	Vol No. Pages	Publisher

II.1.3 Contribution to Books

(Indicate total number of chapters and pages)

Sl.No	Editors	Title of the chapter	Year of Pubn	Title of Book	Country	Edition No.	Publisher

II.1.4 Enlist institutional publications brought out

(specify the nature like Technical brochures, Feasibility reports, Training manuals, Publicity brochures, Organizational plans, Annual reports, Performance reports, Protocols, Brochures, IPR documents etc.)

II.2 Patents filed and granted during the assessment period (*indicate separately total number of national and international patents filed and granted, also provide details as per format given below*):

Sl No.	Title	Country	Filed on (Date)	Granted on (Date)	Names of other inventors

II.3 Financial Contribution

II.3.1 ECF during assessment period:

Sl.No	Title of the project	Project Type/Category	Amount received with your initiative	Govt./ Industry	Lab Reserve generation

II.3.2 Technology / Process / Know-how transferred:

Sl. No	Title	Period during which developed	Date of transfer	Organization/Industry	Total fees realised	Your Role*

II.3.3 Testing, Evaluation and Calibration jobs undertaken and amount charged

II.3.4 No. of EIA jobs undertaken and amount charged

II.3.5 Software developed & delivered and amount charged

II.3.6 Others (*specify, if any*)

II.4 Technology / Process / Product development:

Sl. No	Title	Year of Development	Your contribution in the development*

**not more than ten words.*

In case your work such as 'spin-offs' etc., cannot be depicted in terms of the above parameters, you may like to quantify your contributions in your own way and while doing so you may refer to Section/Para No (s), in case such points are already reflected elsewhere in this report.

Section III

Kindly provide details on the following, whatever applicable, total information being within 300 words

III.1. Field work undertaken

- a) Field data collection (including oceanic data) indicating the number of days involved per year
- b) Field implementation / Technology diffusion
- c) Technical guidance / Counseling

III.2. ECF catalyzed and budget handled (CSIR & other Agencies)

III.3. Participation and contributions made for strategic sector

III.4. Have you been able to create / add new clients to the organization

III.5. Contribution to indigenous technology / component / product / device / engineering systems design & development

III.6. Activities leading to foreign exchange saving

III.7. S&T Cooperation established with other countries including regional collaboration

III.8. Assistance provided for national / international institution building

III.9. National / International training programs organized

III.10. Your contribution towards upliftment of science & technology in the country

III.11. Any other point, not covered so far, to complete the spectrum of your achievements

Section IV

Kindly provide information on following lines, whatever applicable, within 300 words

- IV.1. Participation in policy formulation and / or decision making
- IV.2. Formulating/amending existing rules / procedures for better effective functioning of the organization
- IV.3. Interacting within CSIR, with other R&D Organizations, Govt. Departments, Industry and / or International Agencies for project formulation or meeting effectively the objectives of identified programmes
- IV.4. Obtaining/processing for financial approval and associated management for implementing mega projects.
- IV.5. Providing major service to your organization in its efficient functioning & image building.
- IV.6. Membership in organizational / national / international committees.
- IV.7. Important administrative responsibilities taken and success achieved.
- IV.8. Major events organized as leader / coordinator.
- IV.9. Major initiative taken towards better positioning of your organization.
- IV.10. Any other dimension of your contribution essentially depicting your leadership quality.

Section V**Participation/Contribution to AcSIR /HRD**

V.1. No. of Lectures delivered and details

Sl.No	Subject/Co urse	Credits	No. of Students	No .of Lecture Hours	No. of Practical Sessions

V.2. Did you have a role in the design of curriculum of any subject?
(under 100 words)

V.3. What other contributions you have made to the Academy this year ?
(under 150 words)

V.4. Did you prepare any lecture notes, tutorials, test/assignments etc.?
(under 100 words)

V.5. Please explain any other responsibility you have been assigned/
undertaken including teaching PG/PhD students in 150 words.

V.6. No. of MS(Research), Ph.D. students guided (indicate whether in
progress or completed/awarded).

V.7. Students guided for their project work/assignments for PG Courses
like M.Sc./M.E/ M.Tech. /MBA/MCA etc.

Section VI

Provide salient details including the name of the organization and the year of award, on the following

VI.1. Fellowships of professional societies (*restricted to **all India level selections** only, besides international selections, if any*)

VI.2. Prestigious award / recognition received (*restricted to **national & international level recognitions** only, kindly also indicate in monetary terms, wherever applicable*)

VI.3. Editorship in reputed journals

Date

(Signature of Scientist)

NB : Correctness of the information provided as above, is crucial as the assessment is based fully on the Work Report forwarded to the Collegium for the purpose.

EVALUATION-COLLEGIUM



Council of Scientific & Industrial Research

Enter your Lab Name

Performance Mapping of Scientists
Assessment Year _____ to _____

Employee Name Employee ID

Pen Picture- Behavioral Aspects

(Please note that this is only a qualitative evaluation and therefore no marks are to be awarded)

A. PERSONAL ATTRIBUTES	Excellent	Very Good	Good	Needs to be improved
1. Personality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Maturity and logical thinking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Level of selfconfidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Initiative and drive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Mental alertness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. PROFESSIONAL COMPETENCE				
1. Perception of organizational role	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Competence to handle the job	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Ability to Communicate (both in speech and writing)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Dedication and commitment to the job	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Comprehension and appreciation of new development related to his job	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. MANAGERIAL CAPABILITIES				
1. Ability to get along with colleagues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Willingness to accept responsibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Decision making ability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Crisis handling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Qualities of Leadership	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. INTEGRITY AND ETHICS (Please refer Appendix E before filling this column)	<input type="checkbox"/> Impeccable <input type="checkbox"/> Beyond Doubt <input type="checkbox"/> To be Monitored			
E. Any Adverse Comment (if Yes give details separately)	Yes/ No			

Total Individual Score

- 1.10
- 1.00
- 0.90
- 0.80
- 0.70
- 0.60
- 0.50

(Member 1)

(Member 2)

(Member 3)

Members Collegium

Place:

Date:

EVALUATION-EMPOWERED COMMITTEE



Council of Scientific & Industrial Research

Enter Your Lab Name

Performance Mapping of Scientists

Assessment Year _____ To _____

Employee Name Employee ID

We concur with the individual score as assigned by the collegium

The individual score may be upgraded to

Give reasons justifying the upgradation of individual score

The score may be downgraded to

Give reasons justifying the downgradation of individual score

Final score of the individual

General Comments on Appraisal

Grade

Assign equivalent score out of the corresponding range. Please refer adjoining table

Individual Score	Equivalent %
1.1	100
1.0	90-99
0.9	85-89
0.8	70-84
0.7	60-69
0.6	50-59
0.5	40-49

(Member1)

(Member2)

(Member3)

(Member4)

(Director/DG, Chairman, Empowered Committee)

Place:

Date:

Integrity and Ethics: Please read the following guidelines before evaluating the employee for Integrity and ethics.

Guidelines issued by the Government of India, Department of Personnel, regarding, 'Integrity', vide O.M.No. 51/5/72-ESTT 'A' dated 20 May 1972.

In every form of confidential Report there should be a column regarding integrity to enable the Reporting Officer to make his remarks on the integrity of the Government servant reported upon. The following guidelines should be followed in the manner of making entries in the column relating to integrity:

- a) Supervisory Officer should maintain a confidential diary in which instances which create suspicion about the integrity of a subordinate should be noted from time to time and action to verify the truth of such suspicion should be taken expeditiously by making confidential enquiries departmentally or by referring the matter to the special police establishment. At the time of recording the Annual Confidential Report his diary should be consulted and the material in it utilized for filing, in the column relating to integrity. If the column is not filled on account of the unconfirmed nature of the suspicious, further action should be taken in accordance with the following sub-paragraphs.
- b) The column pertaining to integrity in the character Roll should be left blank and a separate secret note about the doubts and suspicions regarding the Government servants integrity should be recorded simultaneously and followed up.
- c) A copy of the secret note should be sent together with the character roll to the next superior officer who should ensure that the follow up action is taken expeditiously.
- d) If, as a result of the follow-up action, a Government servant is exonerated, his integrity should be certified and an entry made in the character roll.
- e) If suspicions regarding his integrity are confirmed, this fact can also be recorded and duly communicated to the Government servant concerned.
- f) There may be cases in which after a secret report/note has been recorded expressing suspicion about a Government servant's integrity, the inquiries that follow do not disclose sufficient material to remove the suspicion or to 'confirm' it. In such a case the government servant's conduct should be watched for a further period, and in the meantime, he should as far as possible be kept away from positions in which there are opportunities for indulging in corrupt practices and thereafter action taken as indicated at(d) and(e) above.

There are occasions when a reporting officer cannot in fairness to himself and to the government servant reported upon, either certify integrity or make an adverse entry or even be in possession of any information which would enable him to make a secret report to the head of the department. Such instances can occur when a government servant is serving in a remote station and the reporting officer has not had occasion to watch his work closely or when a government servant has worked under the reporting officer only for a brief period or has been on a long leave etc. In all such cases, the Reporting officer should make an entry in the integrity column to the effect that he has not watched the government servant's work for sufficient time to be able to make any definite remark or that he has heard nothing against the government servant's integrity, as the case may be. This would be a factual statement to which there can be no objection. But it is necessary that a superior officer should make every effort to form a definite judgment about the integrity of those working under him, as early as possible, so that he may be able to make a positive statement.