

Evaluation criteria for National R&D Agency, Institute of Physical and Chemical Research (RIKEN) (draft)

| Item   |  | Evaluation criteria   | Remark (related evaluation/monitoring indicator, etc.)  |
|--|--|---|---|
| 3.1 Establishment and operation of the research institute management system to maximize R&D outcomes and create innovation | Reinforcing the system and function to support management under the president's leadership                             | <ul style="list-style-type: none"> <li>○ Establishment and operation of a corporate management system serving as the model for other national R&amp;D agencies to maximize R&amp;D outcomes and create innovation under the leadership of the president</li> <li>○ Suitable response to requests by the competent minister pursuant to Article 7 of the Act on Special Measures (only if said case is present)</li> </ul> | (Evaluation indicator) <ul style="list-style-type: none"> <li>• Analysis of social needs in Japan; appropriate evaluation of corporate management; and based on these, progress of improvement of corporate management under the leadership of the president</li> <li>• Improvement of research environment including personnel system reformation, recruitment of diversified and outstanding human resources and establishment of research support function</li> <li>• Acceptance and fostering of researchers in Japan and abroad; and acceptance of students</li> <li>• Collaboration with overseas research institutes</li> <li>• Distribution of research outcomes; and approach to outreach activities</li> </ul> etc. |
|  | Improving the research environment and fostering outstanding researchers to produce the world's best research outcomes |   | (Monitoring indicator) <ul style="list-style-type: none"> <li>• No. of permanent employees</li> <li>• Proportion of foreign and female researchers and No. of research assistants</li> <li>• No. of young researchers in Japan and abroad; and No. of university students accepted</li> <li>• No. of papers published in academic paper magazines; and indexes for the quality of papers (No. of top 10% cited papers, etc.)</li> <li>• No. of outreach activities</li> </ul> etc.  |
|  | Promoting social return of research outcomes through close collaboration with related organizations                    |   | (Evaluation indicator) <ul style="list-style-type: none"> <li>• One to one collaboration with industries and universities, and social return of resulting research outcomes</li> <li>• Progress of intellectual property management; and creation and fostering ventures</li> <li>• Exploiting and creating of new sciences, and resulting outcomes such as production of innovative seeds</li> </ul> etc.  |
| 3.2 Promoting of strategic R&D based on national strategies, etc.  | Exploiting and creating new science to support sustainable innovation in Japan   | <ul style="list-style-type: none"> <li>○ Strategic promotion of R&amp;D based on the mid to long-term objectives/plan to meet national and social needs designated in the Science and Technology Basic Plan</li> </ul>  | (Monitoring indicator) <ul style="list-style-type: none"> <li>• No. of collaborations with internal and external research institutes; and No. of joint projects</li> <li>• Acceptance of funds from private enterprises for large-scale joint research projects; No. of patents (application, registration); implementation rate of patents owned for more than 10 years; and No. of RIKEN originated ventures</li> <li>• Activities of researchers (senior researchers) having excellent research achievements, in-depth insights and ability for leadership in relation to the exploitation and creation of new sciences; and No. of horizontal and cross-sectoral integrative research projects</li> </ul> etc.            |
|  | Advanced intelligence projects   |   | (Evaluation indicator) <ul style="list-style-type: none"> <li>• Progress of strategic R&amp;D in individual fields focusing on major R&amp;D themes set in the mid to</li> </ul>  |
|  | Theoretical and mathematical   |   |   |

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|   | sciences                      | <ul style="list-style-type: none"> <li>○ Creation of world’s best R&amp;D outcomes; and social return of these outcomes</li> <li>○ Appropriateness of R&amp;D management for maximizing R&amp;D outcomes</li> <li>○ Suitable response to requests by the competent minister pursuant to Article 7 of the Act on Special Measures (only if said case is present)</li> </ul>  | <p>long-term objectives/plan</p> <ul style="list-style-type: none"> <li>• Creation of world’s best R&amp;D outcomes and social return of these outcomes</li> <li>• Management concerning the progress of R&amp;D</li> </ul> <p>etc.</p> <p>(Monitoring indicator)</p> <ul style="list-style-type: none"> <li>• No. of papers published in academic paper magazines; and indexes for the quality of papers (No. of top 10% cited papers, etc.)</li> <li>• No. of patents (application, registration); acceptance of external funds; and No. of collaborations (joint research, etc.)</li> </ul> <p>etc.</p>  |
|   | Medical sciences              |   |   |
|   | Bio-functional science        |   |   |
|   | Brain and neuroscience        |   |   |
|   | Sustainable resource science  |   |   |
|   | Emergent matter science       |   |   |
|   | Advanced photonics            |   |   |
|   | Accelerator science           |   |   |
| 3.3 Establishment, operation and upgrading of the world’s most advanced research infrastructure | Computational science         | <ul style="list-style-type: none"> <li>○ Promotion of the operation, sharing, enhancement and application of R&amp;D infrastructure based on the mid to long-term objectives/plan</li> <li>○ Creation of outstanding research outcomes for enhancement and application as a research institute; and social return of these outcomes</li> <li>○ Creation of outcomes to contribute to the development of S&amp;T or socioeconomic by sharing R&amp;D infrastructure with external organizations</li> <li>○ Appropriateness of R&amp;D management for maximizing R&amp;D outcomes</li> <li>○ Suitable response to requests by the competent minister pursuant to Article 7 of the Act on Special Measures (only if said case is present)</li> </ul> | <p>(Evaluation indicator)</p> <ul style="list-style-type: none"> <li>• Progress of the operation, sharing, enhancement and application of R&amp;D infrastructure focusing on major themes set in the mid to long-term objectives/plan</li> <li>• Creation of outstanding R&amp;D outcomes for enhancement and application and social return of these outcomes</li> <li>• Creation of outcomes resulting from sharing with external organizations</li> <li>• Management concerning the progress of research on the operation, sharing, enhancement and application of R&amp;D infrastructure</li> </ul> <p>etc.</p> <p>(Monitoring indicator)</p> <ul style="list-style-type: none"> <li>• No. of sharing cases, etc.</li> <li>• No. of papers published in academic paper magazines; and indexes for the quality of papers (No. of top 10% cited papers, etc.)</li> <li>• No. of patents (application, registration); acceptance of external funds; and No. of collaborations (joint research, etc.)</li> </ul> <p>etc.</p> |
|   | Synchrotron radiation science |   |   |
|   | Bio-resource research         |   |   |