

**Guidelines on Procedures for Inviting Entities to Apply for a Project Subsidy under the
Fiscal 2013 Supplementary Budget Project: “Project for Decommissioning and
Contaminated Water Management (Development of Technologies for Repair and Water
Stoppage of Leakage Sections in PCV)”**

Date: June 13, 2014

Management Office of the Project for Decommissioning and Contaminated Water
Management

The Management Office of the Project for Decommissioning and Contaminated Water Management invites entities to apply for a project subsidy under the Fiscal 2013 Supplementary Budget Project, “Project for Decommissioning and Contaminated Water Management (Development of Technologies for Repair and Water Stoppage of Leakage Sections in PCV)” as outlined below. When applying for a project subsidy, please refer also to the Subsidy Granting Rules.

1. Purpose of Project

The purpose of this Project is to improve the standard of Japan’s science and technology and to smoothly carry out measures for decommissioning and contaminated water management by implementing projects that support the development of technology for decommissioning and contaminated water management.

2. Contents of Project

For the decommissioning of TEPCO's Fukushima Daiichi Nuclear Power Plant (hereinafter referred to as "Fukushima Daiichi Nuclear Power Plant"), it is utmost important to retrieve fuel debris and maintain it in a secure state.

Currently, there are no detailed data available to identify the locations and properties of fuel debris or the damaged sections of pressure containment vessels and reactor pressures vessels. To retrieve fuel debris while minimizing exposure to workers, the best way is considered to be taking out fuel debris in a state of being submerged in water, as the method used in the accident at the Three Mile Island (hereinafter referred to as "Full Water Submersion").

In order to apply Full Water Submersion, it is necessary first to repair and stop the water

leakage in the sections of pressure containment vessel (hereinafter referred to as "PCV"). Also, even if Full Water Submersion is difficult to apply and an alternative method (Partial Water Submersion) is to be taken, structuring of a PCV boundary is necessary in order to prevent scattering of radioactive materials. For this reason, with the aim of achieving appropriate PCV repair and water stoppage, devices shall be developed. Such devices shall be capable of repairing and water stoppage in the sections of the PCV by remote control when such sections resist human access due to high dose, excessively narrow spaces, or any other reason. Specifically, the following measures shall be implemented.

(1) Developing PCV repair and water stoppage technology

In order to repair and stop water leakage sections of the PCV and provide a boundary, the following technologies shall be developed. Each technology has difficult technical problems. The development of such technology shall proceed step by step in order to confirm the feasibility of the whole repair and water stoppage technologies.

[1] Technology for Reinforcing Suppression Chamber Legs

In order to respond to a load increase caused by a rising water level inside the PCV, water stoppage material filled, or any other reason, a technology shall be developed to reinforce the suppression chamber (S/C) legs. To design, manufacture, and test the reinforcement technology, a reinforcement method and reinforcement materials shall be developed, taking into consideration groundwater levels, working environments, and other factors.

[2] Studying the circulation cooling system

After PCV repair and water stoppage work are started, it is necessary to establish a circulation cooling system for the PCV in order to remove decay heat from fuel debris. For this reason, scenarios for establishing cooling system shall be created, with special attention directed to PCV repair and water stoppage sections, water intake sections, water intake method, equipment, and other factors.

[3] Technology for Water stoppage at vent pipes

To establish a water stoppage method for a vent pipe, a system shall be designed, manufactured, and tested at the factory.

[4] Technology for Water stoppage at the sealing sections

Water stoppage technology shall be developed for sealing sections on the hatch, personal air lock, closing flange, electric penetrometer, or other parts.

[5] Technology for Water stoppage at piping bellows

For water stoppage at piping bellows installed in passages and small chambers, such as the main steam isolation valve chamber (MSIV chamber) and the personal airlock

chamber, water stoppage performance shall be evaluated for feasibility based on the condition of each part. Then a relevant device shall be designed and developed.

[6] Technology for establishing a boundary on the PCV connection piping

Isolation valves on the PCV connection piping deteriorate over time, etc. and therefore water stoppage performance and sealing function might be lower. For this reason, a device shall be designed and developed to establish a boundary by filling the interconnecting piping with a waterstoppage material, by coating the outer surface of the valve, or by other means.

[7] Technology for Water stoppage at the piping penetration part of the torus chamber wall

The torus chamber is likely to receive water in the event that the PCV boundary is damaged after PCV repair or water stoppage. To deal with this problem, a device shall be designed, manufactured and tested at the factory to provide water stoppage for the piping penetration part of the torus chamber wall. In addition, the development of this technology needs to proceed in coordination with the development of technology for reinforcing suppression chamber legs, a water stoppage material, and a implementation method described in [1].

[8] Technology for Repairing D/W shell

In Reactor 1 of the Fukushima Daiichi Nuclear Power Plant, it is not possible to deny that the D /W shell was damaged. For this reason, repair methods shall be studied based on multiple scenarios. And then, a feasible method shall be selected and relevant devices shall be developed.

(2) Development of plan for processes to PCV water-filling

In order to establish a PCV boundary for the No.1 to No. 3 reactors at Fukushima Daiichi Nuclear Power Plant and to enable Full Submersion Method, it is necessary to solve a number of difficult problems. Therefore, a comprehensive plan shall be formulated for the whole process to PCV water-filling. Such a plan shall enable early judgement of the feasibility of PCV water-filling at each stage of research and development.

Also, the plan shall be formulated so that it reflects overall information necessary to achieve PCV water-filling (including earthquake resistance assessment, criticality management measures, debris retrieval method, and radiation dose and narrowness in and around the PCV).

(3) Managing research and development activities

[1] Developing human resources from a medium- to long-term perspective

Cooperative measures such as joint research projects with universities and research

institutions shall be strengthened with a view to developing human resources required from mid- and long-term perspectives.

[2] Mobilizing domestic and foreign knowledge

Projects shall be implemented by making the best use of data from domestic and overseas sources. In particular, the introduction of necessary technologies from domestic and overseas sources shall be widely considered

[3] Setting indicators to determine the achievement of goals

Easily understandable performance indexes serving as criteria for appraising goals achieved shall be studied, and such indexes, to be provided in numerical terms, shall be used to verify whether or not goals have been achieved at the time of project termination.

[4] Establishing and managing an external committee

In conjunction with implementing this Project, a committee composed, if necessary, of outside experts shall be established to discuss and verify research plans, implementation methods, and performance assessments, with a view to having them reflected in practical work.

[5] Coordinating the decommissioning operations with other research and development projects

Any contribution of the results obtained to decommissioning operations and other research and development activities shall be verified. Also, cooperative efforts with other research and development projects shall be pursued towards the decommissioning.

[6] Delivering project reports

As a rule, a quarterly report shall be prepared and submitted concerning project implementation plans, progress of projects, and project outcome. Upon termination of the project, a project implementation report shall be prepared and submitted.

[7] Improving information disclosure

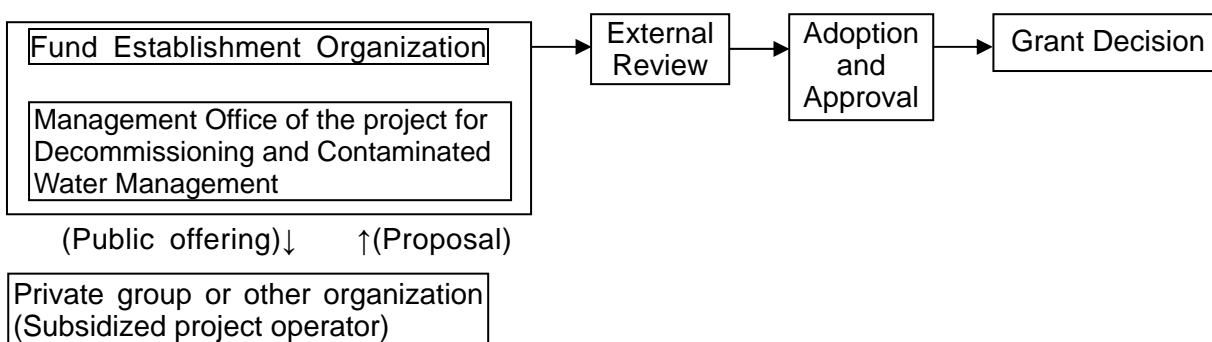
More efforts shall be made to improve explanations and briefings on the details of project implementation and its results, in order to make them more understandable to the general public.

*A strategic meetings is scheduled to discuss fuel debris retrieval at the initiative of the Organization for Nuclear Damages Compensation and Decommissioning Support, which will be started in the near future. In implementing the project, the subsidized operator shall collect and provide relevant information for the strategic meeting. Also, the subsidized operator shall develop a flexible implementation system that reflects

discussions on the Medium- and Long-term Road Map and discussions at meetings of the Management Office of the Project for Decommissioning and Contaminated Water Management.

3. Project Term: Date of grant decision through March 31, 2016

4. Project Scheme



5. Application Requirements

Private groups and other organizations who are entitled to apply for this grant shall comply with all of the following conditions (1) to (7). Applications from consortiums are also acceptable, in which case the managing corporation shall be responsible for submitting a project plan (the managing corporation may not transfer all of its duties to another corporation). The applicant must

- (1) have a framework competent enough to properly carry out the subsidized project;
- (2) have skills, knowledge and experience necessary to carry out the subsidized project;
- (3) have a management infrastructure necessary to smoothly carry out the subsidized project and have adequate fund management capability;
- (4) execute the project in accordance with Japanese laws and regulations, and also have the ability of implementing appropriate accounting practices based on "METI Subsidized Project Processing Manual (*)";
(*) http://www.meti.go.jp/information_2/downloadfiles/jimusyori_manual.pdf
- (5) not fall under the provisions of Article 70 and Article 71 of the Cabinet Order concerning the Budget Settlement and Accounting;
- (6) not fall under any of the action requirements listed in column 1 of Appendix 2 to the

Measures for Suspension of Nominations concerning Suspension of and Contracts on Subsidy Grants from the Ministry of Economy, Trade and Industry (No. 01, January 29, 2003) ;

- (7) have participated in a public offering briefing session or have directly received an explanation upon receiving a copy of these guidelines; and
- (8) agree that the intellectual property rights and other rights obtained by the subsidized project operator belong to the subsidized project operator, but that the results obtained by the subsidized project operator shall be provided for use in decommissioning and waste water management at the Fukushima Daiichi Nuclear Power Plant. The terms and conditions of such use shall be determined separately through consultation between the Ministry of Economy, Trade and Industry and the subsidized project operator.

6. Requirement Conditions for Grant Decision

(1) Scheduled to be adopted: 1 project

(2) Subsidy rate / subsidy amount

Up to 50% of the applicable expenses;

Maximum: 2,000,000,000 yen (Project amount: 4,000,000,000 yen)

The contents of the project, amount of the subsidy, etc. will ultimately be settled only after coordination with Ministry of Economy, Trade and Industry.

(3) Time of Payment

In principle, the subsidies are paid after the project is completed.

*Please note that cases where the payment (i.e. the payment by estimate) before the completion of the project is permitted are limited.

(4) Confirmation of the amount of payment

The amount to be paid is decided based on the result report which is submitted by the operating entities after the project is complete as well as the results of the survey at the verification site and/or the office.

The amount to be paid will be the total of the expenses to be covered by the subsidies, which do not exceed the granted subsidy amount. For this reason, the account ledgers, receipts and other documents are necessary for supporting all the expenses. All the expenses will be strictly inspected and the expenses are strictly evaluated. Thus, the expenses not meeting the conditions mentioned above may be rejected.

7. Application Procedure

(1) Application period

Initiation date: June 13, 2014

Deadline: June 27, 2014, Monday, 10:00

(2) Briefing session

Date: June 18, 2014, Wednesday, 10:00 to 11:00

Location: Mitsubishi Research Institute, 4th floor, CR-F Meeting Chamber at Capital Hotel Tokyu, Office Building, 2-10-3, Nagatacho, Chiyoda-ku, Tokyo

Map: http://www.mri.co.jp/company/info/office/headoffice_map.html

Those who wish to participate in the briefing session should contact us by e-mail at "12. Contact Information", by 10:00, May 19 (Monday).

When contacting us, be sure to refer in the subject (title) of the mail to "Participation in the briefing session on the Project Subsidy under the Fiscal 2013 Supplementary Budget Project for Decommissioning and Contaminated Water Management (Development of Technologies for Repair and Water Stoppage of Leakage Sections in PCV)". Also specify "Name of organization", "Name of participant" "Name of department", "Telephone number", "Fax number" and "e-mail address".

Up to two persons may attend the briefing session for one application (including a joint application with other organizations). The venue of the briefing session will be notified to your "E-mail address". Please note that, if there are more participants than scheduled, participants may be divided into multiple sessions, with the time schedule changed.

(3) Application documents

[1] Submit the following documents collectively in a single file. Describe the title of the file as "Subsidy Application for the Project for Decommissioning and Contaminated Water Management (Development of Technologies for Repair and Water Stoppage of Leakage Sections in PCV)".

- Application form (Form 1)
- Project Proposal (Form 2)
 - Project plan, a description of activities carried out under the subsidized project and the method for carrying those activities;
 - Description of the results of past projects similar to the subsidized project and an explanation of the technical ability (availability of relevant knowledge and abilities) to perform the subsidized project;
 - Description of the accounting basis to be used in the subsidized project (including accounting processing capacity, a retention and management framework for expenditure- related evidence, and financial conditions) ;
 - Total amount of subsidy application (including a description of individual expense

items) , and as necessary, a financial plan.

- Other materials

- Company / organization outline (name / address, date of establishment, main business operations, organizational chart, number of workers)
- Financial report and the statement of receipts and disbursements (for the last year)
- Articles of association or the articles of endowment
- Other supplementary materials

*An application shall be submitted in 15 A4-size copies written in Japanese or English. The paper application shall be accompanied by a CD-R storing relevant electronic data. Such data shall be provided in the Ichitaro, MZ-Word, MS-Power point or MS-Excel format. (If these formats are not available, please contact the Management Office of the Project for Decommissioning and Contaminated Water Management.)

[2] All the application documents submitted will not be used for any purposes other than the evaluation in the course of the selection process. Please note that the application documents submitted will not be returned. We take the utmost care to preserve confidentiality. However, if your proposal is adopted, the information except the non-disclosure information (i.e. the personal information, the information detrimental to the legitimate interests of legal entities) may be disclosed under the “Act on Access to Information held by Administrative Organs” (Act No. 42 enacted on May 14, 1999).

[3] The costs spent for issuing the application documents and other documents will not be included in the expenses. Also, the costs spent for issuing those documents will not be compensated for regardless of whether the proposal is adopted or not.

[4] The matters described in your proposal are considered to be the fundamental policies which should be observed during the project. Consequently, please be sure to describe only the matters which are feasible within the budget. Also, please note that even if your proposal is adopted, it may be rejected later on if you make a significant change to it at your discretion.

(4) Submission of application documents

Send the application documents by post or by any other means to the following address:

Shinbashi JB Building 5F, 6-9-5, Shinbashi, Minato-ku, Tokyo 105-0004
Mitsubishi Research Institute, Inc., Management Office of the Project for
Decommissioning and Contaminated Water Management
Contact: Matsumoto, Sugiyama, or Kawai

*Fax and e-mail submissions are not acceptable. Any application document

lacking required information will not be reviewed. Prepare the application documents with extreme care in accordance with the application procedure.

*Submission after the deadline will not be accepted. When sending the application documents by post, allow for sufficient time to permit its timely arrival.

8. Review and Adoption

(1) Review procedure

In the review, application documents are examined, and in addition, the applicant is required to make a presentation at the Review and Evaluation Committee on the Decommissioning and Waste Water Management Project (within one week of the application deadline) . Up to four persons are permitted to participate in the presentation for each application. In addition, where necessary, a hearing or field survey may be conducted, and the applicant may be requested to provide additional documents.

(2) Review criteria

A comprehensive evaluation will be conducted on the basis of the following criteria. However, any proposed project failing to meet criteria [3] and [4] will not be adopted, regardless of the results of evaluation of other items.

[1] Purpose and nature of the project and implementation method

- A review will be made to decide whether the purpose of the proposed project matches that of the project specified in these application guidelines.
- A review will be made to decide whether the nature of the proposed project is consistent with its purpose and whether the nature of the proposed project is described in a specific manner.
- A review will be made to decide whether the implementation method for the project is consistent with the purpose and nature of the proposed project.

[2] Project schedule

- A review will be made to decide whether the proposed project schedule is consistent with the purpose and nature of the proposed project.

[3] Project implementation framework

- A review will be made to confirm the project implementation framework, the expertise of the organization, the expertise of workers, the past results of similar projects, and other factors.

[4] Management base and management framework for performance of the proposed project

- A review will be made to confirm the management base and management framework

for performance of the proposed project.

(3) Decision and Announcement of Results

When a subsidy application is adopted, the relevant applicant will receive an adoption notice, and the adoption will be publicized on the website of Management Office of the Project for Decommissioning and Contaminated Water Management.

9. Granting of Subsidy

The project shall be initiated after the adopted entity submits a grant application for the subsidy to PMO and PMO has sent a notice of grant in return.

It should be noted that there may be changes in the details, composition and scale of the project as well as its budget between the determination of adoption and grant, as a result of consultation with the PMO. Also, please be aware that the subsidy may not be granted if the granting requirements are not met.

Although subsidized project operating entities may be provided with information required to implement the project after the determination of grant, they may be requested to observe the confidentiality depending on the nature of the information.

10. Recognition of Subsidized Expenses

(1) Classification of subsidized expenses

The expenses covered by this project are expenses directly necessary for the execution of the project, specifically as follows. The subsidized expenses will be finalized upon coordination with the Ministry of Economy, Trade and Industry.

Items of Expense	Description
(1) Labor Costs	Expenses for personnel required to implement the subsidized project.
(2) Operating Costs	Expenses for raw materials, consumables, design/fabrication/processing, facility/equipment, goods purchase, research, outsourcing, travel, remunerations, rent/depreciation and other necessities.

(2) Expenses not to be Included in Expenses Covered by Subsidy

- Office supply equipment (furniture such as desks, chairs and bookshelves, office

machinery and so forth) with which the applicants should already be provided when considering the nature of the project.

- Expenses for handling accidents and disasters that occurred during the project. (However, cancellation fees incurred by reasons not attributable to subsidized project operating entities may be directly included as an expense. Please consult the person in charge on this matter.)
- Expenses unrelated to the project

(3) Exclusion of Consumption Tax from Expenses Covered by Subsidy

If general and local consumption taxes (hereafter referred to as “consumption tax”) are included in the subsidy amount, the applicants shall be requested to submit a report after the settlement of tax amount, according to the granting guidelines.

This is so specified as to demand, at the time of filing an income tax return, that subsidized project operating entities should report and return the amount to which the subsidy has been applied, out of the amount of deduction for taxable purchase, so that the amount for which the subsidy has been allocated out of the amount of deduction for taxable purchase shall not be detained.

However, because the report mentioned above is based on an income tax return that will be filed after the settlement of the subsidy, occasional delinquency in reporting due to lapse of memory has been found. Also, in order to avoid the complicated office procedures that need to be followed by subsidized project operating entities, the consumption tax shall be handled as follows.

When determining the amount of subsidy applied for in the grant application, the consumption tax must be excluded from the expenses covered by the subsidy before calculating the subsidy amount and submitting the application.

However, to avoid hindrance to the implementation of the subsidized project, such subsidized project operating entities as those listed below shall be permitted to include the consumption tax in the expenses covered by the subsidy when calculating the amount of subsidy.

- [1] Subsidized project operating entities who are not classified as taxpayers under the Consumption Tax Act
- [2] Subsidized project operating entities who are tax-exempt business entities
- [3] Subsidized project operating entities who are business providers subject to simplified tax
- [4] National or local governments (limited to cases when project is conducted with a special account), or subsidized project operating entities who are corporations listed in the attached Table 3.

[5] Subsidized project operating entities who are using the general account of a national or local government

[6] Subsidized project operating entities who are taxable business providers that choose a refund of consumption tax, following confirmation of consumption tax and purchase tax deductions, for instance due to a low amount of taxable sales

11. Miscellaneous

(1) Any expenses incurred before the date when the decision on grant of the subsidy is made (including expenses for order placement) shall not be covered by the subsidy program.

(2) In the event that the subsidized project operating entity desires to make a purchase or other contract related to material procurement or involving an occurrence of cost, it shall invite open competitive bidding, as a general rule, from the viewpoint of cost effectiveness. If the subsidized project operating entity desires to outsource part of the subsidized project to a third party or conduct the project in partnership with a third party, it shall in advance make a contract on the implementation and report this to PMO.

(3) Once informed that the decision on grant of the subsidy is made, the subsidized project operating entity shall not change the subsidy budget distribution or the details of the subsidized project nor interrupt or terminate the project without prior approval from PMO.

(4) The subsidized project operating entity shall promptly report the progress of the subsidized project and so on whenever required to do so by PMO.

(5) After the subsidized project is completed (or the project termination is approved), the subsidized project operating entity shall submit a project result report to the management office.

(6) The subsidized project operating entity shall keep accounts on any expenditures for the subsidized project with dedicated account books accompanied by all written evidences in a way that is clearly differentiated from the other accounting to ensure that all incomes and expenditures are meticulously accounted for. The entity shall maintain the account books at least five years after the fiscal year in which the date of completion (or the date of approval for termination) is included so that they can be accessible whenever requested by METI, fund establishment organization and PMO.

(7) With respect to the assets acquired or the utility of which has increased through the subsidized project (hereinafter referred to as "the Acquired Assets, etc."), the subsidized project operating entity shall manage them with due care of a prudent manager even after the completion of the subsidized project, and strive to effectively make use of them in

accordance with the purpose of the grant of the subsidy. All applicable Acquired Assets, etc. shall be properly controlled using an Acquired Asset Ledger during the asset disposal restriction period, which will be separately set forth.

(8) If the subsidized project operating entity needs to dispose of (i.e., use, transfer, loan or offer as collateral assets contrary to the purpose of the grant of the subsidy) any Acquired Asset having a unit price equal to or higher than 500 thousand yen (tax excluded) during the asset disposal restriction period separately set forth, they must obtain prior approval. In this case, the entity shall pay part of or the entire subsidy amount as a general rule. (The maximum payment does not exceed the subsidy amount for the appropriate asset to be disposed of).

(9) After the completion of the subsidized project, the Board of Audit may visit the premises of the subsidized project operating entity for inspection.

12. Contact Information

5F, Shinbashi JB Bldg., 9-5, Shinbashi 6-chome, Minato-ku Tokyo 105-0004

Mitsubishi Research Institute, Inc., Management Office of the Project for
Decommissioning and Contaminated Water Management

Contact: Matsumoto, Sugiyama, or Kawai

Phone: 03-5425-2871 Fax: 03-3578-7025

E-mail: hair-second@mri.co.jp

Please contact us by e-mail or fax. Inquiries by telephone are not accepted.

(Form 1)

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To: Management Office of the Project for Decommissioning and Contaminated Water Management

Project Subsidy under the Fiscal 2013 Supplementary Budget Project: "Project for Decommissioning and Contaminated Water Management (Development of Technologies for Repair and Water Stoppage of Leakage Sections in PCV)

Application

Applicant	Company/Organization Name		
	Representative (Full Name and Title)		Seal or Signature
	Address		
Contact	Contact Person (Full Name)		
	Section/Department		
	Title		
	Telephone (Extension, if any)		
	E-mail		

(Form 2)

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Project Subsidy under the Fiscal 2013 Supplementary Budget Project: “Project for Decommissioning and Contaminated Water Management (Development of Technologies for Repair and Water Stoppage of Leakage Sections in PCV)

Project Proposal

1. Purpose, details and implementation method of the project
<ul style="list-style-type: none">*Describe the background and the purpose of the proposed project.*Provide a specific description of the implementation method for each item in “2. Project Details” of these Guidelines.*Provide specific suggestions for enhancing the outcome of this project.
2. Project schedule
<ul style="list-style-type: none">*Provide a monthly implementation schedule for each item in “2. Project Details” of these Guidelines.* Describe concrete steps for implementation.* Establish and describe concrete goals as milestones to achieve the purpose of implementation.* List quarterly progress report meetings (for intermediate and final report) in the implementation schedule.
3. Project implementation framework
<ul style="list-style-type: none">* Provide a chart of the implementation framework of the project and the number and roles of workers.* Describe the brief personal history, specialty field, past records of similar projects, concerning the project leaders and person responsible for project implementation.* If any operation is planned to be outsourced, provide its details.
4. Past project results

<p>*Describe the results of similar business carried out in the past by the organization. Include the following information in the description.</p> <p>- Project name, project outline, year of implementation, orderers, and other relevant information (indicated if a project was a voluntary one).</p> <p>* Describe the field of expertise of the main staff of this project and a record of similar projects carried out in the past (excluding staff addressed in item 3 above)</p>
<p>5. Management base and management framework</p>
<p>* Describe the financial condition and the fund management system (for management and retention of expenditure-related documentary evidence) (persons in charge and their roles) as necessary to ensure smooth progress of the project.</p>
<p>6. Total project cost (in thousands of yen)</p>
<p>*Indicate necessary expenses in accordance with “(1) Classification of subsidized expenses” in “10. Recognition of Subsidized Expenses” in these Guidelines. Add other expense items where necessary.</p>
<p>I Labor Cost</p>
<p>II Project Cost</p> <p style="padding-left: 40px;">[1] Design, manufacture, and processing</p> <p style="padding-left: 40px;">[2] Consumables</p> <p style="padding-left: 40px;">[3] Travel</p> <p style="padding-left: 40px;">[4] Gratuity</p> <p style="padding-left: 40px;">[5] Outsourcing</p>
<p>Total: thousand yen (*Total amount must not exceed the maximum subsidy.)</p>

Note: Expenses must not include consumption tax or local consumption tax.

(Other materials)

- [1] Company / organization outline (name / address, date of establishment, main business operations, organizational chart, and number of workers)
- [2] Financial report and the statement of receipts and disbursement (for the last year)
- [3] Articles of association or the articles of endowment
- [4] Other supplementary materials (as necessary)