

Market Alert #1: Fukushima Decontamination Schedule, Tender Process, and Technologies

1. Overall Schedule

In January 2012, Japan's Ministry of Environment (MOE) published an updated comprehensive schedule of decontamination projects in Fukushima Prefecture. This schedule runs through March 2014 and the work stages depend upon the types of land and facilities, as well as the level of contamination. Please see the schedule below:

		FY 2011 (Apr 2011 – Mar 2012)	FY 2012 (April 2012 – March 2013)				FY 2013 (April 2013 – March 2014)			
			Apr - Jun	Jul - Sep	Oct - Dec	Jan - Mar	Apr - June	Jul - Sep	Oct - Dec	Jan - Mar
Plan		“Special Decontamination Areas”								
Decontamination demonstration model work		Control under Cabinet Office	Areas with high level of radiation (model control under Ministry of the Environment)							
Advance decontamination		Municipal offices, community halls, etc.	Joban Highway (MOE control)							
		Infrastructure / water and sewage								
Full-scale decontamination	Area with less than 20mSv/year *Aiming for reducing additional exposure dose to less than 1mSv/year as a long-term goal	*Identification of the stakeholders *Meeting with residents *Monitoring the radiation levels of buildings *Surveys of the condition of the buildings *Acquiring consent for decontamination *Decontamination in the order of conclusion of consent	Areas with 10 – 20mSv/year Schools with 5 – 20mSv/year							
	Area from 20 - 50mSv/year *Aiming for reducing exposure dose in residential and farmland areas to less than 20mSv/year by 2014 Mar.		Areas with 5 – 10mSv/year				Areas with 1 – 5mSv/year			
	Area with more than 50mSv/year *Demonstration projects will be implemented. Lessons learnt will be reflected in future decontamination policy		*Decontamination will start as soon as the requirements are met, such as consent of residents and designation of temporary storage areas.				Areas with 20 – 50mSv/year			
Temporary storage		Design	Surveys and preparation (in the order agreed by the community) / Delivery and management							
			Model work				*Verification of the results			

2. The Tender Process

In order to participate in projects commissioned by the Government of Japan, firms must be registered as legal entities in Japan and compete according to the dictates of Japan's tender system. GOJ tenders are announced in Japanese on the websites of the entities administering the tenders and the period between issuance and submission is usually two to four weeks.

In order to qualify to bid on nuclear decontamination projects, interested firms must hold a “Qualification of Civil Engineering Work from the Ministry of Environment (MOE) for Participation in Open and Competitive Bidding” certification.

In addition, a required qualification grade, which ranges from “A” to “D” and indicates the qualification level needed to be eligible for particular projects, is specified in the tender document. “A” is the highest

level and qualifies firms to participate in projects exceeding 300 million yen (approximately \$3.3 million). Also, an “A” grade is considered the minimum standard for nuclear decontamination projects.

To apply for tenders, bidders must submit a number of required documents (see the list below) by the closing date specified in the tender document.

An “Integrated Tender Evaluation System” is used to appraise each bidder’s proposal. This system is an overall rating methodology used by MOE to assess the suitability of each applicant firm for the particular project being tendered. This evaluation system consists of the following elements:

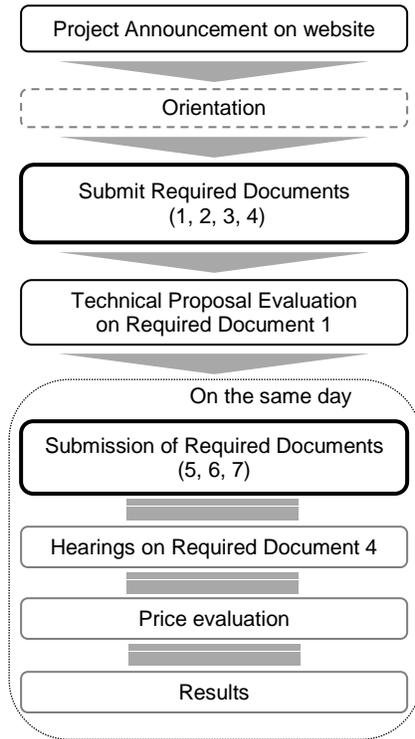
1. Tender price: It shall be less than the ceiling price, but higher than the standard price set by MOE
2. Technical proposal: It shall be based on common specifications
3. Additional innovative and novel proposals: These elements will add extra point(s) to the total

MOE tenders for Fukushima nuclear decontamination work are made public via the following website (in Japanese only): http://www.env.go.jp/kanbo/chotatsu/index_nyusatsu_koji.html

List of Required Documents

	Required Documents	Comments
1	Tender Participation Application Form	The Application Form is posted on the website with an announcement of a project.
2	Technical Proposal	The Technical Proposal shall be five pages, maximum on A4-sized paper in a single-side-printed format.
3	Reference Materials	Reference Materials shall be 10 pages, maximum, including the "Technical Proposal" on A4-sized paper and single-side-printed format.
4	Implementation Framework	The framework format is posted on the website with the announcement of the project.
5	Proxy	The proxy format is posted on the website with the announcement of the project. A proxy is required if an agent participates in a tender.
6	Tender Price	The price format is posted on the website with the announcement of the project.
7	Itemized Statement of Construction Costs	The format in which the bidder must stipulate its costs is posted on the website with the announcement of the project.

Tender Flow Chart



3. Approved Technologies

Japanese regulators commonly use the “positive list” approach to regulating safety and effectiveness a wide variety of industrial and commercial applications, from specifying the types of ingredients allowed in cosmetics to permissible food additives. If an ingredient, additive, or process is not included on the “positive list,” the product or process cannot be sold or used in Japan. The MOE uses this approach when specifying the technologies that can be used nuclear decontamination.

The following technologies have been approved by the MOE for use in nuclear decontamination work in Japan, categorized under six different land/facility and process headings. The MOE has noted that this list is not static and new technologies may be added starting sometime in 2013 via a full-scale decontamination project tender process by which effective and creative proposals will be accepted for consideration. Commercial Service Japan (CS Japan) will use [the Fukushima Decontamination Market Alerts webpage](#) to notify U.S. firms when the MOE initiates this tender process to consider new technologies.

	Category	Decontamination Technologies
1	Farm Land	plow / topsoil removal / hardening / turf stripping
2	Roads and Pavement	high-pressure water / road cleaners / surface stripping / blasting / ultra-high-pressure water
3	Trees and Forests	weeding / removal of leaf mold / clipping / water hosing
4	Housing	wiping off with cloth / removal of the sediment in drain spouts

5	Volume Reduction of Waste	chipping / pruning and sticks/ incineration
6	Temporary Storage of Waste	shielding / gas discharge / tank for checking radioactivity concentration of seeping water

4. References

Organization	Website
Ministry of Environment (MOE)	http://www.env.go.jp/en/
Ministry of Education, Culture, Sports, Science and Technology (MEXT)	http://www.mext.go.jp/english/
Cabinet Office, Government Of Japan (CAO)	http://www.cao.go.jp/index-e.html
Reconstruction Agency	http://www.reconstruction.go.jp/english/
Fukushima Prefecture	http://www.cms.pref.fukushima.jp/
Fukushima City	http://www.city.fukushima.fukushima.jp/
Fukushima Kankyo Saisei Office (Local office of MOE)	http://tohoku.env.go.jp/fukushima/
Japan Atomic Energy Agency (JAEA)	http://www.jaea.go.jp/english/index.shtml
Decontamination Information Plaza (MOE)	http://josen-plaza.env.go.jp/
Off-site Decontamination Measures (MOE)	http://josen.env.go.jp/en/

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