

# Government of Rajasthan

Rajasthan Health Systems Development Project  
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No.F.5 (1.20)/RHSDP/QI/HCWM/CTF Evaluation/2010/240  
Credit No. 3867-IN

Date: 3/2/11

## Letter of Expression

1. The Government of Rajasthan has received a credit from International Development Association towards Health Systems Development Project. Part of the process of the credit will be applied to payment for eligible consultants under the contracts for which this invitation for bid is issued.
2. RHSDP initiated the dedicated effort to establish Health Care Waste Management (HCWM) System at 343 secondary level health institutions across the state. A portion of credit received from the World Bank is being utilized for quality improvement interventions by the project.
3. RHSDP invites "Expression of interest" from eligible consulting organization to conduct a study "**Third party evaluation of CTF services**".
4. The consulting organization must have past experience and exhibit capabilities in carrying out such activities in health sector for past three years. The consultant should have good knowledge of Environment / Pollution control and norms of Bio Medical Waste (Management and Handling) Act and Rules.
5. The consulting organization would be selected following the Least Cost Selection (LCS) procurement process as per the World Bank guidelines.
6. Interested organizations are required to submit their profile, giving the following details:-
  - a. Name, address, Fax No. and Email Address of the agency
  - b. Names and short CVs of the chief functionary and principal staff members
  - c. List of similar assignment undertaken (completed and ongoing) in the related medical field in the past three years
  - d. Registration status and organizational structure
  - e. Financial status of last three years
7. Detailed Terms of Reference is available on the department website [www.rajswasthya.nic.in](http://www.rajswasthya.nic.in) and for further query contact during office hours at the above office address.
8. The letter of "Expression of Interest" should reach the office of the Project Director, RHSDP on or before **1700 hours on 28 February 2011**, under sealed cover.

  
Project Director  
RHSDP

## Terms of Reference

### **Assessment of Operations of Common Treatment Facilities (CTFs) under Rajasthan Health Systems Development Project**

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#### **Project Background**

The Rajasthan Health Systems Development Project (RHSDP), supported by the World Bank, aims at establishing an appropriately managed health system, through the delivery of effective services, stemming from policy reform, institutional, and human resources development. The project has been effective since 2004 and has now been extended to September 30, 2011.

During the project design phase an Environmental Sub-component primarily focused on Healthcare Waste Management (HCWM) was prepared. Implementation of the HCWM Plan has been quite successful and benchmarks for achieving the environmental objectives have been regularly met. Environmental issues associated with this project primarily relate to civil works, improved management of medical waste from the health care facilities and ensure compliance with the Government of India's Bio-Medical Rules.

As mandated by the Rules, the Government of Rajasthan has contracted the disposal of infectious waste to service providers who operate Common Treatment Facilities (CTFs). There are 11 CTFs across the state, which have service contracts with 265 healthcare facilities under the project.

The CTFs have contractual arrangements with the Department of Local Self Government (LSG) and with the healthcare facilities. Implementation of CTF services are monitored by the LSG while the Rajasthan Pollution Control Board (RPCB) is the regulatory authority for ensuring compliance with the legal requirements.

#### **Objective of Assignment**

The objective of the assignment is to undertake a comprehensive assessment of the implementation of the CTF operations. The on-site review and documentation of HCWM system will cover 11 Common Treatment Facilities which are currently operational and a field survey of about 33 healthcare facilities which are contracted with these service providers (3 per CTF).

#### **The specific objectives are to review:**

- (i) Operations of equipment and waste treatment and disposal
- (ii) Implementation of services provided by the CTFs to the facilities



## **Tasks**

The consultant will undertake site visits to the 11 CTFs and to a sample size of about 33 healthcare facilities contracted to these CTFs. The consultant will cover 25 districts, which are connected with the CTFs and visit the health facilities as follows:

District Hospitals	:	15
100 Bedded CHCs	:	6
50 Bedded CHCs	:	6
30 Bedded CHCs	:	6

The consultant will be required to track the waste travel route and review pick-up operations in process and also review actual waste treatment operations while in process within CTF premises. The consultant should also include some photographic evidence in the report. Consultant will review the following:

### **At CTF:**

- Hardware (civil works, equipment, numbers of vehicles etc) at each CTF site and maintenance records
- Records of environmental clearances from PCB, before installation and during operations
- Quantum of waste collected per day and per month – any trend?
- Quality of the service provider staff in terms of their knowledge and technical skills for operating the equipment – have they been trained?
- Use of protective gear when operating equipment and handling waste
- Availability of protective gears
- Quality of transport vehicles
- Pick-up plan prepared by CTFs and compare during site visits to facilities
- Treatment and Disposal methods used for different categories of waste
- Operations of different equipment – incinerator, autoclave, shredder – and whether they are operated in optimum conditions
- Disposal of ash and sharps and shredded plastic
- Occupational and safety measures of CTF staff
- Do they double-handle the waste?
- Are there concerns about segregation practices and quality of plastic bags?
- Are they operating at optimum capacity – can they take on more facilities?
- Level of collaboration with RPCB? Are there specific guidelines or directives specified by RPCB?
- Other generic issues such as concerns on payment, distances etc

### **At health facilities and during transportation:**

- Vehicle quality and knowledge of driver and assistant with regard to color-coded bags, pick-up schedule, protocol etc
- Weighing of bags and weighing operations at facility and how it is double check at CTF premises
- How often does pick-up happen at the facility

- Following the standard during collecting HCWM wastes in Vans
- Are CTF operations regular?
- Is plastic waste (IV bottles etc) picked up by CTF or managed by the facility
- How does the facility pay the CTF operator?
- How do they validate the bills with services provided?
- Satisfaction with services provided by CTF
- Segregation of the waste at the hospital

The consultant will utilize the checklists while undertaking field visits, reviewing documentation and interviewing the key stakeholders. The consultant will also interact with the district level officers (CM&HO and DPC) of 11 districts regarding CTF services in their districts.

### **List of key positions whose CVs shall be evaluated**

<b>S. No.</b>	<b>Position</b>	<b>Qualifications</b>	<b>Experience</b>
1.	Team Leader (1)	Post graduate degree in Environmental Science / Microbiology / P. hd / Health / HCWM Course	Environment / Research / Study / Field / HCWM related
2.	Field Manager (2)	Post Graduate with science background	Environment / Research / Study / Field / HCWM related
3.	Field Assistant (2)	Graduate in any subject	Field work

### **Time Frame and Deliverables**

The consultant will have a total of 60 days starting from date of the signing the contract including 40 days of field visits, information collection, report writing and finalization. The Consultant will submit following deliverables:

- Work plan and methodology for conducting the proposed evaluation study
- Draft report for review by the RHSDP Officials
- Power point Presentation for the department officials
- Raw material and data, collected from the field
- 10 Copies (hard and soft) of the final report

### **The final report submitted should also include:**

- Executive summary of the assessment study
- Comprehensive picture of CTF services in the state
- Key bottlenecks and issues
- Recommendation to improvement of CTF services

## **Organization and management of Work**

This work will be carried out in close collaboration with the team at RHSDP, who will be responsible for the detailed arrangement and logistics related to site visits and meetings.

## **Review Committee to monitor support services work**

A technical committee under chairmanship of the Project Director, RHSDP, will review the progress of the assignment. The members of review committee will be as follows:

- Director-HA & AIDS, DM&HS
- FA & CAO, RHSDP
- Additional Director-HR, RHSDP
- O I/c – QI Cell, RHSDP
- Officer- HMIS, RHSDP
- Consultant HCWM, RHSDP

## **Schedule of Payments**

The complete cost of the above study will be paid in the following manner:

- 30 % of the total cost will be paid at the time of submission of work plan and methodology by the Consultant
- 40 % of the total cost will be paid at the time of submission of draft report of the proposed study by the Consultant
- 30 % of the total cost will be paid at the time of submission of 10 copies (hard and soft) of final report by the Consultant.

Enclosed : List of CTFs with contact persons and their covering areas



## CTF – Contact List

S. N.	Name of CTF and Office Address	Plant Address	Contact Person	Covering Area / Districts
1.	E-tech Projects - 14, Leela Dharamshala, Govt. Hospital, Suratgarh Road, Sri Ganganagar	Bypass Road Hanumangarh Junction, <b><u>Hanumangarh</u></b>	Sh. Ghanshyam Ji Ph. 9352680001 9414282068	Hanumangarh Ganganagar
2.	E-tech projects- Near Power house, Opp. Jailwell, Bikaner etechmanish@rediffmail.com	Near Power house, Opp. Jailwell, <b><u>Bikaner</u></b>	Sh. Manish Ji Ph. 9314442517 9314442518	Bikaner Churu Nagaur (Partial)
3.	En-vision Eng. Pvt. Ltd. - 128/103, Ist floor, Samruddhi Complex Opp. Krishi Mandli, Near Reti Stand, Udaipur envision_surat@hotmail.com	5008, village Umerda, Tehsil- Girwa, Udaipur, <b><u>Udaipur</u></b>	Sh. A R Mathur Ph. 9928118762 Kapil 9214466308 0294-2481513	Udaipur Banswara Chittorgarh Rajsamand
4.	Sales Promoters- Jaipur Bypass Road, Parbatpura, Sendriya, Ajmer slspromoters@yahoo.co.in	Jaipur Bypass road, Srinagar, Sendriya, <b><u>Ajmer</u></b>	Sh. Anil Jain Ph. 9829790903	Ajmer Bhilwara Nagaur (Partial)
5.	Sales Promoters- Municipal Land Fill Area, Jaisalmer Road, Barli Post Office, Jodhpur- 342001	Jaisalmer Road, <b><u>Jodhpur</u></b>	Sh. Basant Rathore Ph. 9829790902	Jodhpur Pali
6.	Rajputana Biotech. Pvt. Ltd. Powen Tower, Venkateshwar Colony, New Sanganeer Road, Sodala, Jaipur	Village Thingla, Near Polo victory College, <b><u>Sawai Madhopur</u></b>	Sh. Sumer Singh Ji Ph. 9314430173 9414203068	Sawai Madhopur Karoli, Tonk
7.	Rajputana Biotech. Pvt. Ltd. Powan Tower, Venkateshwar Colony, New Sanganeer Road, Sodala, Jaipur	CBWTF, Village Khori Ropada, Kanota, Agra Road. <b><u>Jaipur-II</u></b>	Sh. Moti Singh Ji Ph. 9414048914 Sh. Hemendra Ji Ph. 9828114018	Jaipur (Rural) Dausa
8.	Instro Medix Pvt. Ltd. , 10, Joshi ka Bag, Sayat ka Gattta, Tonk Road, Jaipur. iipjpr@gmail.com himanshusuri22@gmail.com	CBWTF, Gram khori Ropara, Agra Road, <b><u>Jaipur-I</u></b> Fax 0141-2700780	Sh. Himanshu Ji Ph. 09711203628 Ph. 8890908882 9829398664	Jaipur (Urban)
9.	Hoswin Incinerator 2/444, Aravli Vihar, Hausing Board, Kala Kua, Alwar. arvind_scx4200@yahoo.com	Rund Dhoninath, Behind Ashok Leylend, MIA, <b><u>Alwar</u></b>	Sh. Arvind Sharma Ph. 9828533689 Sh. Hemendra Ph. 9414023688	Alwar Bharatpur
10.	Hoswin Incinerator Jhalawar ecopro@rediffmail.com hoswin@airtelmail.in dr_agrawal@airtelmail.in	Baran bypass, <b><u>Jhalawar</u></b>	Sh. Asad Warsi Ph. 09827060693 Sh. Ankur Agrawal Ph. 9893993900 9660200580	Jhalawar Baran
11.	Rajdeep Biotech (Joint venture with M/s Rajputana Finstock) Seth Sundar Lal Strret, Chhavni, Kota	Rawat Bhata Road, Near Bara Bas Village, <b><u>Kota</u></b>	Sh. Rajendra Chawala Ph. 9414252273	Kota, Bundi