

# **COLD CHAIN SECTOR UNDER HCFC PHASE-OUT MANAGEMENT PLAN (HPMP)** **STAGE-II PROJECT**

## **Terms of Reference (TOR)**

### **1. Background**

India is a Party to the Montreal Protocol since 1992 and has been implementing phase-out of production and consumption of Ozone Depleting Substances (ODSs). The production and consumption of Chlorofluorocarbons (CFCs), Carbon tetrachloride (CTC) and Halons has been successfully phased out in India as of 1<sup>st</sup> January, 2010. The phase-out of Hydrochlorofluorocarbons (HCFCs) is ongoing as per the accelerated phase-out schedule of HCFCs under the Montreal Protocol.

The HCFC Phase-out Management Plan (HPMP) is being implemented in the country. The Executive Committee (ExCom) of the Multilateral Fund (MLF) at its 77<sup>th</sup> meeting vide decision 77/43 approved the HPMP Stage-II for India. The UNDP is the lead implementing agency for implementation of HPMP Stage-II. United Nations Environment Programme (UNEP) and Deutsche Gesellschaft für Internationale Zusammenarbeit, (GIZ) Proklima, Government of Germany are the cooperating agencies.

UNEP is the implementing agency, to implement the enabling activities under the non-investment component of India's HPMP Stage-II. Under sector based policy development for Ozone depleting substance phase-out, activities related to Cold Chain Interventions is part of HPMP Stage-II. The UNEP implements the programme through the Project Management Unit (PMU), Ozone Cell, Ministry of Environment, Forest and Climate Change (MoEF&CC).

The cold-chain is a logistical chain of activities involving packaging, storage and distribution of perishable food products and vaccines. Cold chain has linkages with achievement of Sustainable Development Goals. It is also linked to reduction of emissions related to food loss. Selection of appropriate cooling technology, minimizing leakage of refrigerants and maximizing energy efficiency will lead us to have sustainable cooling. Use of renewable and alternate energy technologies are especially promising for cold chain applications.

The PMU, Ozone Cell, MoEF&CC invites proposal for carrying out the activities listed in scope of work and deliverables given in Section 3 and 4 below respectively.

### **2. Objective**

The activities related to Cold Chain Sector HPMP Stage-II inter alia relate to application of non-ODS and low Global Warming Potential (GWP) alternatives in the Cold Chain sector covering inter alia cooling technologies, improvement of energy efficiency, emphasis on better O&M practices and use of renewable and alternate energy technologies, where possible.

### **3. Scope of Work**

- I. To undertake a study on the application of non-ODS and low Global Warming Potential (GWP) alternatives in Cold Chain Sector in India involving collection, collation and analysis of information through desk study as well as field visit, where required.

The study shall be for cold chain for agricultural produce and vaccines, as appropriate, and cover the state of art on the topics mentioned above, survey existing infrastructure, identify gaps and the likely interventions to achieve sustainable cold chain infrastructure. The scope of study shall be approved by Ozone cell and UN Environment.

### **II. Workshops**

1. Organize 1 capacity building workshop with Cold Chain institutes, concerned stakeholders including National Cold Chain Centre for phase-out of HCFC and improvement in energy efficiency in Cold Chain sector.
2. Organize 1 consultation workshop with concerned stakeholders on the draft study report and non ODS low GWP alternative development trends, refrigerant leakage and energy efficiency related issues, and the technical and policy options.

Workshops inter-alia include:

- i. Finalization of venue, which should be able to accommodate at least 60 participants, have audio-visual facilities, internet, seating arrangement, separate area for refreshments, requisite approval for holding such events.
- ii. Secure participation for the workshop, which shall be the target audience and a minimum participation of 60 participants shall be ensured.
- iii. Preparation of background material for distribution to delegates.

- iv. Finalization of agenda/ programme structure for the workshop including the dates and faculty/speakers in consultation with Ozone Cell, MoEF&CC.
- v. Preparation of Workshop Completion Report (WCR) covering the following:
  - a. Workshop structure/agenda
  - b. Date and venue
  - c. Details regarding faculty/speakers for each topic in the structure/ agenda
  - d. No of Participants attended along with contact details
  - e. Analysis of feedback
  - f. Conclusions and recommendations
  - g. Photographs for each workshop both in print and soft copies

#### **4. Schedule**

The duration of completion of all the activities as per the scope of work is 6 months from the date of award of the assignment.

#### **5. Timeline and reporting**

- 1) Inception report– Within 1<sup>st</sup> month of project inception, covering the following:
  - a. Venue, agenda, list of speakers and tentative dates for the workshops.
  - b. Exact scope for study and timeline for completion of study.
  - c. Format of WCR
- 2) Mid-term report– End of 3<sup>rd</sup> month, covering progress on each activity, submission of draft study report and submission of WCR for consultation workshop on draft report for study.
- 3) Final report - End of 6<sup>th</sup> month, WCR for capacity building work shop and submission of final study report.

#### **6. Terms of Payment**

- a. 50% after signing the agreement.
- b. 30% after submission of mid-term report.
- c. 20% after submission of final report and WCR and acceptance by MoEF&CC.

## **7. Eligibility Criteria**

- a. Average Annual financial turnover during the last three years, ending 31st March, 2020, should be at least INR 10 lakhs (to be supported with financial statements / audited balance sheets of the last three financial years).
- b. Minimum 3 years' experience working in the field of Montreal Protocol and related areas such as cold chain, energy efficiency, ODS phase-out, awareness generation and content development for ODS phase-out, monitoring and verification of ODS phase-out projects for government/ PSUs, autonomous bodies, international organizations, bilateral and multilateral bodies (to be supported by letter of award and contract).
- c. Experience of executing at least 3 assignments of order value INR 15 lakhs in the field of Montreal Protocol, international/ multilateral conventions for government/ PSUs, autonomous bodies, international organizations, bilateral and multilateral bodies (to be supported by letter of award and contract).

## **8. Submission of Proposal**

The proposal will be submitted in two parts involving Technical and Financial Proposals in two separate sealed envelopes. Proposal sent by Email/Fax will not be entertained. Last date of acceptance of the duly filled and completed bids is 9<sup>th</sup> July, 2020 by 17:30 Hours at the following address:

The Additional Director  
Ozone Cell  
Ministry of Environment, Forest and Climate Change (MoEF&CC)  
Core 4B, 2<sup>nd</sup> Floor, India Habitat Centre, Lodhi Road  
New Delhi - 110 003

### **a. Technical Proposal**

The Technical Proposal should include the following:

- i. Introduction.
- ii. Details of experience of similar work.
- iii. Approach and Methodology.
- iv. Work Plan.
- v. Details of Technical Team (include one page CV each of the persons to be associated) including qualification in relevant areas.

## b. Financial Proposal

The Financial Proposals should include the total lump-sum cost in INR inclusive of all taxes, travel and other expenses related to the assignment.

## 9. Evaluation and Selection

Evaluation Criteria (will be applied only to those who meet the eligibility criteria)  
Criteria and their marks

Sr. No.	Criteria	Marks	
	Sub-criteria	Total criteria	Sub-criteria
1	Past Experience of the Firm	40	
	<ul style="list-style-type: none"> <li>• Number of years relevant experience               <ul style="list-style-type: none"> <li>○ 3 -6 Years</li> <li>○ More than 6 Years</li> </ul> </li> <li>• Experience of working with government/ PSUs, autonomous bodies, international organizations, bilateral and multilateral bodies               <ul style="list-style-type: none"> <li>○ 3 -6 Assignments</li> <li>○ More than 6 Assignments</li> </ul> </li> </ul>		20 10 20  20  10 20
2	Methodology, Work Plan and Understanding of TOR	20	
	<ul style="list-style-type: none"> <li>• Understanding of TOR</li> <li>• Approach and methodology</li> <li>• Work plan with timelines</li> </ul>		06 08 06
3	General profile of qualifications, experience and number of key staff	25	
	<ul style="list-style-type: none"> <li>• Qualifications</li> <li>• Relevant experience</li> </ul>		10 15
4	Overall financial strength of the firm in terms of turnover, profitability and cash flow (liquid assets) situation	15	
	Turnover figure for last three years <ul style="list-style-type: none"> <li>• 10 - 15 lakhs</li> </ul>		5

	<ul style="list-style-type: none"> <li>• 15 - 20 lakhs</li> <li>• 20 lakhs and above</li> </ul>		10 15
5	Total	100	

The minimum cut off will be 75 (Seventy Five) marks for Technical proposal and competency.

### **Selection Methodology**

Quality and cost based selection

- a. Technical proposal -70%
- b. Financial proposal -30%

Financial proposals will be opened only for the technically qualified bidders and will be given cost score based on relative ranking of prices, with 100 marks for the lowest bidder and pro-rated lower marks for higher priced offers. The total score shall be obtained by weighting the quality and cost scores and the bidder that obtains the combined highest score will be considered for award.