

**Terms of Reference – Individual Contract for an expert for EPC Unit / Central Environmental Authority for preparation of an implementation guideline for polluter Pays Principle.**

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**Title** - Preparation of an implementation guideline for Polluter Pays Principle in selected industry sectors located in sensitive areas of river basins.

**Report to** - Director General / - Central Environmental Authority

**Duty Station** - Central Environmental Authority

**1. Purpose**

These Terms of Reference have been developed to obtain services from an expert on Environmental Engineering for preparation of an implementation guideline for polluter Pays Principle in selected industry sectors located in sensitive areas of river basins.

**2. Background**

The amendment to the National Environmental Act No 47 of 1980 is being finalized and the concept of Polluter Pays Principle (PPP) has been included in the amendments, which is a market based tool to control pollution. Based on the PPP a new regulation has to be drafted and the EPC Unit is preparing and focusing for an effective implementation mechanism for the regulation once it is drafted and finalized.

The Action Plan 2022 of EPC Unit has included a preliminary study for PPP which needs the development of suitable methodology for pollution load estimation, and drafting of an implementation guideline addressing the practical issues for better implementation.

For the preliminary study high polluting, wastewater generating sectors including textile industries located in Kelani river basin including 02 Export Processing Zones Biyagama & Seethawaka need to be selected. The Preliminary study report should consist of the overview of the study including proposed calculations / methodology, flow rate measurements, measuring devices applicable according to the existing situation and waste minimization options.

Necessary field inspections will be carried out by CEA officers as well as other party who will be selected by the tender process. Training programmes will be conducted by the selected

consultant to aware the inspecting officers. Incorporating the preliminary study an implementation guideline for PPP will be developed. With the urgency of the work to be completed within 06 months and to address the practical issues faced during inspections and installation of flow metering, an expert with civil engineering and environmental back ground with previous experience in similar studies should be assigned as a consultant.

### **3. Objectives of the Consultancy**

**The overall objectives of this consultancy service are to:**

1. Preparation of preliminary study report including proposed calculations / methodology, flow rate measurements, measuring devices applicable according to the existing situation and waste minimization options.
2. Preparation of implementation guideline addressing the practical issues for better implementation of PPP.
3. Awareness for CEA officers on pollution load calculation & implementation mechanism.

### **4. Scope of Work**

The expert shall be responsible

- I. To complete the assigned tasks within the given period of time ( 06 months)
- II. Preparation of preliminary study report including proposed calculations / methodology, flow rate measurements, measuring devices applicable according to the existing situation and waste minimization options.
- III. Guidance to select necessary flow meters & identify issues in installation of flow meters and suggest remedial measures
- IV. Awareness programs for CEA officers
- V. Industrial inspections can be arranged as per the request of the consultant (counterpart staff, transport, equipment.)
- VI. Preparation of Data collection formats for waste load calculation and data reporting.
- VII. Preparation of implementation guideline addressing the practical issues for better implementation of PPP.

### **5. Transfer of Knowledge**

Knowledge transferring though awareness programmes and from the guideline prepared by the consultant for implementation of PPP.

## 6. Reports & schedule of deliverables & Criteria of Payments

	Action/delivery
i	Preliminary study report including proposed calculations / methodology, flow rate measurements, measuring devices applicable according to the existing situation and waste minimization options.
ii	Draft Implementation Guideline including management of ambient water quality in a river by using PPP as an economic tool (as per the given format by the CEA )
iii	Awareness Programs
iv	Final completed Implementation Guideline for PPP

### Criteria for Payments

	Payment Criteria	% of the Total Payment
i	Preliminary study report including proposed calculations / methodology, flow rate measurements, measuring devices applicable according to the existing situation and waste minimization options.	25%
ii	Draft Implementation Guideline for PPP As per the given format by the CEA  Awareness programmes	50%
iii	Implementation Guideline for PPP( final)	25%

## 7. Duration

Estimated duration of the assignment is 06 months from the date of acceptance of the study by the expert and to the date from submission of guideline for implementation of PPP.

## 8. Specifications of the expert

The expert shall possess the following academic qualifications & experience

<b>Academic qualifications</b>	Doctor of Philosophy (Environmental Engineering)
<b>Area of specialty</b>	Environmental Engineering/Environmental modelling and Management/ Water Supply/Wastewater Engineering Cleaner Production Able to conduct / guide laboratory analysis of water quality, wastewater.
<b>Professional Qualifications</b>	Chartered Civil Engineer Cleaner Production Auditor
<b>Experience</b>	Similar studies carried out in pollution load estimation. Cleaner Production consultations & studies More than 20 years of experience in research studies in environmental field relevant to river water quality analysis including pollution load calculations and laboratory Experience in Designing of hydraulic structures for pollution load calculations

## 9. Method of Hiring

The suitable expert will be hired on an individual contract basis.