



**Government of Odisha
(Housing and Urban Development Department)**

EXPRESSION OF INTEREST

**for Selection of Agency for Establishment of
Public Health Engineering Laboratories
for Testing and Quality Monitoring of Water &
Waste Water on PPP Mode for period of 10 Years in
9 Public Health Divisions of Odisha -
Cuttack-II, Angul, Keonjhar, Jharsuguda, Bolangir,
Bhawanipatna, Rayagada, Koraput and
Bhanjanagar at Chatrapur**

**OFFICE OF THE ENGINEER-IN-CHIEF, PH
Heads of Department Building, 1st Floor, Unit – V,
Bhubaneswar – 751 001, ODISHA
Phone No.0674-2393909
e-mail : eicphodisha@gmail.com**

AUGUST - 2018



**GOVERNMENT OF ODISHA
OFFICE OF THE ENGINEER-IN-CHIEF, PUBLIC HEALTH
ODISHA, BHUBANESWAR**

EXPRESSION OF INTEREST

EOI No. 01 /2018-19 Date 10.08.2018

Sealed **Expression of Interests** (EOIs) are invited from interested/ intending Government (State/ Central/ Union Territory) and Private Agencies having experience of Establishing and Operating Water/Waste Water Testing Laboratories/ any other Laboratories duly certified/ accredited by NABL, Department of Science and Technology, Government of India for empanelling/ short listing/ **selecting such agencies** for **Establishment and Operation of Public Health Engineering Laboratories for Testing and Quality Monitoring of Water & Waste Water on PPP mode for a period of 10 years in 9 PH Divisions at Cuttack-II, Angul, Keonjhar, Jharsuguda, Bolangir, Bhawanipatna, Rayagada, Koraput & Bhanjanagar at Chatrapur.**

The sealed EOIs can be sent in prescribed format by **Registered Post / Speed Post / Courier** only to the undersigned by **05.09.2018 at 5.00 PM.** The detailed EOI can be downloaded from the website of the Housing & Urban Development Department - **http: www.urbanodisha.gov.in** & from Government of Odisha website (**http://www.odisha.gov.in**) with effect from **16.08.2018 at 11.00 AM** under the item "**EOI for Establishment and Operation of Water-Testing Laboratories**" at the home page. The authority reserves the right to cancel all or any of EOI bid without assigning any reason thereof.

Sd/-

ENGINEER-IN-CHIEF, PH

1st Floor, Heads of Deptt. Building Unit -5,
Bhubaneswar-751 001, Odisha.

email : eicphodisha@gmail.com

Memo No.(SOT)-387/2018/ 11588 /Dated 10.08.2018

Copy along with soft copy forwarded to the Deputy Director (Advt.) and Deputy Secretary to Govt., Information & Public Relation Deptt., Odisha, Bhubaneswar for information with a request to arrange immediate publications of the "**Expression of Interest**" (EoI)" for one day in **1 (one) English National News Paper all editions** in addition to **one leading Oriya daily.** It is requested to ensure the publication of above EoI notice on or before **16.08.2018.** The payment for publishing the same in the above mentioned newspapers will be borne by this office, if the same cannot be borne by the I&PR Deptt. Copies of the newspapers featuring publication of the notice may please be sent to this office for necessary action.

Encl: As above

Sd/-

ENGINEER-IN-CHIEF, PH

Memo No. 11589 Dated 10.08.2018

Copy submitted to the Commissioner-cum-Secretary to Government, Housing & Urban Development Department, Odisha, Bhubaneswar for favour of kind information & necessary action.

Sd/-
ENGINEER-IN-CHIEF, PH

Memo No. 11590 Dated 10.08.2018

Copy with **Soft Copy** of the **EoI** forwarded to the Head, State Portal Group, I.T. Centre of State Secretariat for display in the **Government of Odisha Web Site (<http://www.odisha.gov.in>) on or before 16.08.2018.**

Encl : As above

Sd/-
ENGINEER-IN-CHIEF, PH

Memo No. 11591 Dated 10.08.2018

Copy with **Soft Copy** of the **EoI** forwarded to the PMU Cell, H&UD Department, Odisha, Bhubaneswar for display in the H & UD Department - **<http://www.urbanodisha.gov.in> on or before 16.08.2018.**

Encl : As above

Sd/-
ENGINEER-IN-CHIEF, PH

Memo No. 11592 Dated 10.08.2018

Copy forwarded to the Superintending Engineer, PH Circle, Cuttack/ Balasore/ Sambalpur/ Berhampur/ Bhawanipatna/ Executive Engineer, PH Division, **Cuttack-II, Angul, Keonjhar, Jharsuguda, Bolangir, Bhawanipatna, Rayagada, Koraput & Bhanjanagar at Chatrapur** for information & necessary action.

Sd/-
ENGINEER-IN-CHIEF, PH

Expression of Interest for Selection of Agency for Establishment and Operation of Public Health Engineering Laboratories for Testing and Quality Monitoring of Water & Waste Water on PPP mode for a period of 10 Years in 9 PH Divisions of Odisha – Cuttack-II, Angul, Keonjhar, Jharsuguda, Bolangir, Bhawanipatna, Rayagada, Koraput and Bhanjanagar

The Office of the Engineer-in-Chief, Public Health Engineering Organisation, Housing and Urban Development Department, Government of Odisha invites **Expression of Interest (EoI) from the eligible Firms / Agencies for Establishment and Operation of Public Health Engineering Laboratories for Testing and Quality Monitoring of Water & Waste Water on PPP mode for a period of 10 years in 9 PH Divisions – Cuttack-II, Angul, Keonjhar, Jharsuguda, Bolangir, Bhawanipatna, Rayagada, Koraput and Bhanjanagar.**

Interested eligible firms are requested to submit their Expression of Interest along with the information as per the forms and with documents mentioned below.

Eligibility to Participate in the Bid:

1. EoI may be submitted by interested Agency as **a single entity or a group of entities (“Consortium”, of not more than 3 members)**. These agency shall be a company as specified in the Companies Act, 1956 / a society registered under The Societies Registration Act, 1860 / a trust registered under the Indian Trusts Act, 1882 / a company as specified in section 25 of Companies Act, 1956/ a Limited Liability Partnership registered under 'The Limited Liability Partnership Act, 2008

AND

2. The time period elapsed from commencement of business should be at least five years as on 31st March 2018. In case of a consortium, the number of years from commencement will have to be met by the Lead Member

AND

3. Agency shall have the relevant experience in water/ waste water testing labs having-
 - (i) **Construction/ development and design/ layout of such labs;**
 - (ii) **Supply/ procurement/ manufacturing of equipment for Water and Waste Water Testing Laboratories;**
 - (iii) **Operations and Maintenance of Water and Waste Water Testing Laboratories including testing & quality monitoring;**

(iv) Development of a database management system for recording, reporting, analysing such test results.

OR

Companies establishing/operating any **NABL Accredited Laboratories** are also eligible to participate in the present EoI.

Agencies with experience in one or more of the above-mentioned areas are eligible to participate in the EoI and share their experience and expertise with PHEO Department during an EOI presentation which will be scheduled post submission of the EoI.

Agencies with experience in one or more of above-mentioned areas may participate individually or may form a consortium with other firms to participate in the Expression of Interest. Participating agencies may form consortium with other firms participating in EoI during the RFP stage.

The Expression of Interest meeting / presentation is scheduled to be held on **29.08.2018 at 4.00 PM.**

Objective of the Assignment:

PHEO intends to establish 9 new PH Division level laboratories with NABL accreditation and for operation for a period of 10 Years on Public Private Partnership (PPP) model. Details of the Divisions are as under:

- Cuttack-II
- Angul
- Keonjhar
- Jharsuguda
- Bolangir
- Bhawanipatna
- Rayagada
- Koraput
- Bhanjanagar

These Divisional Laboratories with NABL accreditation envisage to undertake following activities:

- a) Conduct test procedures for analysis of physical, chemical & microbiological parameters of water & waste water in line with defined guidelines (as per BIS/APHA/USEPA standards)
- b) The indicative frequency of such tests to be conducted is provided in Annexure 1. However, the same may undergo some changes, if any, as required by PHEO department, Govt. of Odisha
- c) Undertake routine monitoring & surveillance of distribution system and suggest corrective actions based on water and waste water quality data analysis

- d) Routine Monitoring of identified control measures within water supply system
- e) Identifying contamination points within water supply systems and control
- f) Develop a management information system for recording, reporting and analysis of test results

Scope of Work for the Assignment:

The broad scope of work of the Concessionaire includes establishment and carrying out the operations of water and waste-water testing laboratories at different locations in Odisha, which include following key activities:

a. Establishment:

Setting up of laboratories: The Agency shall have to establish the Water and Waste water testing laboratories at identified locations as the case may be in the state of Odisha to strengthen the monitoring of water and waste water quality, with complete setup within a period of **9 (Nine) Months** from the date of award of contract.

The building for setting up laboratory will be provided along with electrification and water supply arrangement, depending upon availability. In case of non-availability of space, the selected Agency is required to lease/rent out the building for setting up the laboratory. The client to pay for the lease/rent amount for the duration of operations as per the fair rent as determined by the government from time to time.

The selected Agency will be responsible for paying the electricity and water supply connection bills.

Agency shall be responsible to carry out the interiors of the laboratories as per the specifications mentioned at the RFP Stage. It will include walls of laboratory, balance room, media preparation and sterilization room, floor units, slides, skirting, table-tops, support brackets, storage units, sink units, reagent shelves, electric trunking, overhead shelves, chemical storage cabinets etc.

b. Operation and Maintenance:

- **Resource Mobilization:** Further to the establishment of the laboratories, agency shall be responsible for provision of requisite number of qualified manpower to perform all the functions to be performed by each lab as per requirement.

- The **coverage area** for conduct of Water and Waste Water quality tests will be areas under Urban Local bodies as identified by the PHEO department. The Agency shall be responsible for conducting water quality testing of rural water supply, **if required/ on need basis, as and when defined by PHEO Department**, and charge payments in line with the quoted unit rates for such tests.
- **Collection of Samples to perform tests:** Laboratories shall be required to collect samples of water and waste water at regular intervals (as per the CPHEEO Guidelines) from identified collection points/water sources within the defined coverage area for each lab. The collection points will be defined by the PHEO Department. The number of the parameters to be tested is defined and listed in Annexure 1.
- **Performing Water and Waste Water Quality tests:** Laboratories shall perform water quality tests of the collected samples as per the BIS/APHA/USEPA standards. The laboratories to function throughout the year (365 days of the year).
- **Reporting:** Each Laboratory shall be required to report detailed analysis of the sample tested and provide hard copy & soft copy of the analytical results daily and submit the same to the PHEO Server. In addition to reporting, they shall also be required to undertake design and maintenance of Management Information System and record keeping of all the tests.
- **Re-checking of Samples:** To reply any queries raised by PHEO regarding data authenticity, the Laboratories shall have to re-run the sample tests and provide new reports, as and when required by the PHEO. All the collected samples in every laboratory to be preserved as per the NABL Accreditation Guidelines.
- **Management Information System:** A central Management Information System, MIS, to be designed and maintained within 2 months of the establishment of each laboratory to upload and enter data reports. The access rights of the MIS to be given to the PHEO officials only. The MIS to provide real-time information and monitoring access to the PHEO Department. The Agency to provide system & API access as and when required to PHEO for integration of MIS with other IT solutions as and when implemented by PHEO.

Team:

Agencies are required to deploy separate teams for Sample Collection and Water & Waste Water Testing for each PH Divisions covered under this assignment. Agencies are required to refer the CPHEEO Guidelines in deciding the team size in the nine Divisional Laboratories. The indicative

assessment of the workload of sample collection and testing on required parameters is provided in **Annexure 1**.

Documents to be submitted along with the Expression of Interest:

The Expression of Interest shall be submitted in the Forms enclosed in this document along with the necessary supporting documents.

- Covering Letter (Form-1) in the letterhead of the firm/ Agency.
- Details of the Organisation (Form-2)
- Annual turnover of the Agency over the last three financial years certified by a Chartered Accountant (Form-3): (Please enclose audited financial reports of last three years)
- Past experience in Water and Waste Water Testing Laboratories/ any other NABL Accredited Laboratories (Form-4A and 4B)
- A declaration in the form of affidavit (Rs. 10/- Non-Judicial Stamp paper) from the Firm/ Agency that they have not been banned or de-listed or blacklisted for fraudulent practices (Form-5)

Documents to be enclosed with the Expression of Interest:

- **Company certificates** i) Certificate of incorporation highlighting registration details and ii) GST Registration No., PAN No./TAN No.
- Income tax returns of the last three financial years
- Supporting documents for past experiences: Work orders in case of ongoing projects/completion certificates in case of completed projects
- NABL Accreditation Certificates for Labs / Testing Parameters as applicable (Please enclose supporting documents)

Agencies must ensure that the authorized signatory initial all the pages of EOI application, failing which the EOI application may not be considered for evaluation.

Submission of the EOI:

The interested eligible firms/agencies may submit their expression of interest in hard copy, in sealed cover superscripted "**EOI for Selection of Agency for Establishment and Operation of Public Health Engineering Laboratories for Testing and Quality Monitoring of Water & Waste Water on PPP mode in 9 PH Divisions**" with required documents as specified in this invitation notice duly signed by authorized signatory on or before **05.09.2018 by 05:00 PM** to the address mentioned below:

**Office of the Engineer-in-Chief, PH
Heads of Department Building, 1st Floor, Unit – V
Bhubaneswar – 751001, Odisha.**

The sealed cover containing the Eoi will be opened on **06.09.2018 at 11:30 AM**.

For any queries / clarifications relating to submission of EOI, please contact Team Leader PMU, PHEO or send email to eicphodisha@gmail.com.

NB: *EOI received after the above time and date shall not be considered and would be liable to be rejected.*

EOI Presentation:

Agencies/firms will be invited for an Expression of Interest meeting/ presentation. The objective / agenda of the meeting to be as follows:

- Opening Presentation by the PHEO department on project overview with focus on Scope of Work and Business Proposition for Agencies. Queries from Agencies will be addressed.
- Presentations by Agencies on their experience in Water and Waste Water Testing/ any other NABL Accredited Laboratories, interested in setting up Water and Waste Water Testing Laboratories. An Interactive Session with PHEO/H&UD Dept. officials.
- Platform to provide Agencies to explore partnerships amongst themselves.
- Inputs/Suggestions from participants for the RFP stage, if any.

The Expression of Interest meeting / presentation is scheduled to be held on **29.08.2018 at 4.00 PM, in PHEO Conference Hall, Office of the SE, PH Circle, Bhubaneswar (Behind Rajiv Bhawan), Unit-5, Bhubaneswar.**

After assessment of the interest of firms at the EOI stage and considering the suggestions following the above process, the RFP will be invited through open Tender.

FORM-1

Covering Letter in the letterhead of the Firm/Agency

Ref:

Date:

To

Engineer-in-Chief, PH
Heads of Department Building, 1st Floor, Unit – V
Bhubaneswar – 751001, Odisha

Sub: Expression of Interest for Establishment and Operation of Public Health Engineering Laboratories for Testing and Quality Monitoring of Water & Waste Water on PPP Mode in 9 PH Divisions of Odisha.

Sir,

We, M/s. _____ are submitting herewith our Expression of Interest for Establishment and Operation of Public Health Engineering Laboratories for Testing and Quality Monitoring of Water & Waste Water on PPP Mode in 9 PH Divisions of Odisha. We give our consent to abide by the terms and conditions specified in the EoI notice by the office of Engineer-in-Chief, Public Health, Odisha and Housing & Urban Development Department, Govt. of Odisha.

I/ We hereby declare that the furnished information and all Supporting documents are true to the best of my/ our knowledge. Above all I / We also declare that I / We will not have any objection if the authorities of Housing & Urban Development Department, Govt. of Odisha, verify the details. I / We fully understand that our application is liable to cancellation, if it is found that any of these statements of facts therein is incorrect or false at any stage.

Thanking you.

Yours faithfully,

Name of Authorised personnel:

Designation:

Address:

Stamp & Signature of the Authorised Personnel

FORM-2
Details of the Organization

Sl. No.	Particulars	Details
1	Name of the firm / agency	
2	Status (Legal Entity)	
3	Date of Establishment	
4	Registered Address (with pin code)	
5	Telephone No.: Mobile No.: Email Id.:	
6	Name of the Contact Person: Designation of Contact Person: Telephone No.: Mobile No.: Email Id.:	
7	URL of Website of the firm / agency	
8	Quality Certifications (if any)	

If your organization is a Proprietorship Firm:

- Enclose the resume of the Proprietor

If your organization is a Partnership Firm:

- Enclose the CVs of the Partners
- Copy of Registered Partnership Deed

If your organization is a Private Ltd. / Public Ltd. / Others:

- Enclose the list of the Directors
- Certificate of Incorporation / Certificate of commencement of business
- Articles and Memorandum of Association

Stamp & Signature of the Authorized Personnel

FORM – 3**Annual Turnover of the Agency/ all Consortium members
over the last three financial years certified by a
Chartered Accountant**

Sl. No.	Financial Year	Annual Turnover* of the firm / agency (in INR)	Profit After Tax (in INR)	Annual Net Worth (in INR)
1.	2015-16			
2.	2016-17			
3.	2017-18			

*Turnover to include income from related work area.

Signature of the practicing Chartered Accountant / or attach audited P&L statements

Name:

Membership No.:

Stamp & Signature of the Authorized Personnel

FORM – 4A**I. Past relevant experience in Water/Waste Water Testing Laboratories:**

Sl. No.	Client Name	Project Name	Year (Start date – End date)*	Executing Agency in case of Consortium	Contract Value (in I NR)	NABL Accredited Labs (Yes/ No)

On-going assignments are allowed.

II. Past Experience in any other NABL Accredited Laboratories:

Sl. No.	Client Name	Project Name	Year (Start date – End date)*	Executing Agency in case of Consortium	Contract Value (in I NR)	NABL Accredited Labs (Yes/ No)

On-going assignments are allowed.

The Agency shall submit copy of all NABL Accreditation Certificates.

FORM – 4B**Past relevant experience
(Project Details)**

Project Name:	Country:
Project location within the country:	No. of professional staff provided by your firm:
Name of the client:	Professional staff months provided by your firm:
Address and contact person (client): Phone No..... Fax No..... Email id.....	Value of the assignment (in INR): Approximate value of services provided by your firm / agency (in INR):
Start Date:	End Date:
Detailed narrative description of the project with NABL Accredited Status, if any (for lab or for tests):	
Model / project structure adopted for the project implementation (if applicable)	
Description of actual services provided by your firm	

* Sl. No. to be maintained as per 'Form – 4A'.

* Please restrict the 'Project Details' to max. Two pages per project.

FORM-5**Declaration from the Firm/ Agency that they have not been banned, de-listed, or blacklisted for fraudulent practices**

Ref:

Date:

To

Engineer-in-Chief, PH,
Heads of Department Building, 1st Floor, Unit – V
Bhubaneswar – 751001, Odisha.

Sub: Declaration against fraudulent practices/ blacklisting.

Sir,

In response to EOI notice No. _____ dated _____, I, _____ (Name of the authorized person) working as _____ (Designation), do hereby declare that our organization M/s. _____ (Organization name) is having unblemished past record and was not declared ineligible/ banned or de-listed/ black-listed for corrupt & fraudulent practices either indefinitely or for a particular period of time, by the Government of India or by any State Government or by any Government Department, Public Sector Undertakings of the Government, Statutory Boards formed by the Government, or any other body, co-operatives, Institutions, Universities and Societies formed by the Government.

In the event of any deviation from the information/ declaration, Housing & Urban Development Department, Govt. of Odisha reserves the right to reject our EOI application.

Thanking you.

Yours faithfully,

Name of authorized personnel:

Designation of authorized personnel:

Address:

Stamp & Signature of the Authorized Personnel:

Annexure-1A

Indicative Testing Parameters for Water and Waste Water Quality Control Monitoring are given as under:

Testing Parameters

The Divisional Laboratories shall have to carry out analysis on Physical, Chemical and Microbiological water quality parameter, along with Waste Water quality parameters, details are mentioned below:

- 1. Physical:** Color (Pt. Co), Odour, Free residual chlorine, pH, Turbidity (NTU), Total dissolved solid, Conductivity
- 2. Chemical:** Ammonia, Calcium, Chloride, Fluoride, Iron, Magnesium, Nitrate, Sodium, Potassium, Sulphate, Dissolved Oxygen, Alkalinity, Hardness
- 3. Microbiological:** Total coli form bacteria (MPN Count), MS2PHAGE (PFU), E-coli (Prsent/Absent)
- 4. Waste Water:** COD, BOD and others as mentioned in Annexure-1C

Suggested minimum sampling and testing frequency is given on the next page (Annexure – 1B)

Annexure-1B

Indicative minimum frequency of tests to be conducted across the Nine Divisional laboratories is defined below:

(The frequency of the tests is in-line with the Manual on "Operation and Maintenance of Water Supply Systems - 2005", defined by the Central Public Health and Environmental Engineering Organisation (CPHEEO))

Size and Source	Frequency	Parameters			Division								
		Physical	Chemical	Microbiological	Cuttack –II	Angul	Keonjhar	Jharsuguda	Bolangir	Bhawanipatna	Rayagada	Koraput	Bhanjanagar
a. Ground Water (Production Well)	Quarterly	√	√	√	157	68	57	44	41	58	37	47	193
b. Ground Water (Hand Pump)	Annually	√	√	√	1940	1413	924	1372	2742	2139	552	1988	2463
c. Surface Water (River source)	Weekly	√	√	√	4	4	4	2	9	6	2	6	12
d. Distribution System	Daily	√			38	25	26	25	28	20	12	33	33
	Weekly			√									
	Monthly		√										

Note:

Based on the area specific issues, e.g., High Sodium, Alkalinity, Magnesium etc. the frequency of the testing parameters may change, as and when demanded by the PHEO

Annexure-1C**Quality Control Tests to be run by the concession Laboratory in support of Waste Water (Sewerage Treatment Plant Operations)**

Typical tests for an Activated Sludge Process STP						
	Parameter	Abbr	Frequency	No. Sampling Points in ASP STP	Annual QC Samples	
Influent/ Effluent	Biochemical Oxygen Demand (Inf/Eff)	BOD	D	2	15	Tests used to prove compliance with effluent quality discharge limits and track influent condition (design parameters were prepared with assumed influent conditions, which must be tracked). Operator test frequency is daily. QC values chosen reflect one sampler per week per location.
	Chemical Oxygen Demand (Inf/Eff)	COD	D	2	15	
	Fecol Coliform	Fcol	D	1	7	
	Nitrogen, Ammonia (Inf/Eff)	NH4-N	D	2	15	
	Nitrogen, Total Kjeldahl (Inf/Eff)	TKN	D	2	15	
	pH (Inf/Eff)	pH	D	2	15	
	Phosphorus, Phosphate (Inf/Eff)	PO4-P	D	2	15	
	Total Chlorine Residual	HOCL	D	1	7	
	Total Suspended Solids (Inf/Eff)	TSS	D	2	15	
Basic Chemistry	Calcium	Ca	M	2	1	Basic Chemistry tests performed to understand the water quality conditions. Tests can be done periodically or on an as need basis
	Chloride	Cl-	M	2	1	
	Magnesium	Mg	M	2	1	
	Sodium	Na	M	2	1	
	Sulphate	SO4	M	2	1	
	Sulfide	H2S	M	2	1	
Metals and Organics	Arsenic	As	Q	3	6	Metals, organics and pesticides are done for establishing baseline conditions and to trouble shoot STP process upsets Industrial discharges are typically monitored for these parameters.
	Chromium (Hexavalent)	Cr 6+	Q	3	6	
	Fluoride	F-	Q	3	6	
	Iron	Fe	Q	3	6	
	Manganese	Mn	Q	3	6	
	Phenolic Compounds	Org	Q	3	6	

D- Daily, M-Monthly, Q-Quarterly

Note: The above-mentioned list is of typical tests to be conducted by the Agency in support of the quality control monitoring of STPs. The list excludes the process control tests, which are entirely the responsibility of the STP operator. The frequency of testing can be increased later on, if the circumstances require it, by the PHEO Department. The number of samples is representative of One STP, activated sludge process with biological nutrient removal.