

HIMACHAL PRADESH
STATE WATER AND SANITATION MISSION
WSSO, DHALLI, SHIMLA-171012

No: SWSM-WSSO-Lab/2014-15/ 1840-72
To

Dated:- 17-12-2014

The Member Secretary, DWSSM
Cum-Executive Engineer,
IPH Division, Bilaspur, Hamirpur, Shimla, Solan,
Dharamshala, Chamba, Una, Nahan, Mandi,
Kullu, Kaylong, R/Peo.

Subject: Designating State Laboratory for water testing in Himachal Pradesh as per NRDWP guidelines

This is in reference to 2nd SLSSC meeting held on 14th November, 2014, minutes of which has been circulated and also hoisted on departmental website vide which the MoU of M/s ECO Lab and Consultants (P) Ltd, Mohali was allowed to be extended for one year w.r.t. 17-12-2014 to 16-12-2015.

In this connection, a Memorandum of Understanding (MoU) has been entered on dated 16-12-2014 between M/s Eco Laboratories & Consultants Pvt. Ltd., E 207, Industrial Area, Phase-8B (Sector-74), Mohali, Punjab-160071 and Water and Sanitation Support Organization, Dhalli, Shimla, Himachal Pradesh-171012 to designate as State laboratory for water testing in Himachal Pradesh. The complete detail of MoU along with Terms of Reference (ToR) is hoisted on the departmental website.

It is requested to appraise the other Executive Engineers in your district about the same and take further necessary action so that mission of achieving better quality of drinking water is achieved in the State.

Encl: As above

Director (WSSO)
Dhali, Shimla-12

Copy to:-

1. The Additional Chief Secretary (IPH) to the Govt of Himachal Pradesh, Shimla-2 for information please.
2. The Engineer-in-Chief (IPH), U.S. Club, Shimla-I for information please.
3. The Zonal Chief Engineer, IPH Zone, Dharamshala, Hamirpur, Shimla and Mandi for information please
4. The Superintending Engineer, IPH Circle, Kullu, R/Peo, Shimla-9, Chamba, Nahan, Sundernagar, Bilaspur, Dharamshala, Hamirpur, Una, Nurpur, Rohroo for information please.
5. The Programmer/Consultant, Computer Cell, IPH, US Club for uploading the same on departmental website.
6. The Director, M/s Eco Laboratories & Consultants Pvt. Ltd. (Eco Lab), E- 207, Industrial Area, Phase-8B (Sector-74), Mohali, Punjab-160071 for information and necessary action please.

Director (WSSO)
Dhali, Shimla-12

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8618
22/12/14

Navchetan Singh Raina
Stamp Designer (Landra)
Ajitgarh M.: (9915374442)

AFFIDAVIT



Eco Laboratories & Consultants Pvt. Ltd.
E-207 Industrial Area Phase-8B, Mohali

**GOVERNMENT OF HIMACHAL PRADESH
WATER AND SANITATION SUPPORT ORGANIZATION**

MEMORANDUM OF UNDERSTANDING

Between: - Water and Sanitation Support Organization and M/S Eco Laboratories & Consultants Pvt. Ltd., E-207, Industrial Area, Phase-VIII B (Sector-74) Mohali, Punjab.

This Memorandum of Understanding (MoU) is entered on 16th day of December 2014 between:

- (i) Water and Sanitation Support Organization (WSSO) through Director WSSO (hereinafter called the first Party) and
- (ii) The M/s Eco Laboratories & Consultants Pvt. Ltd., E 207, Industrial Area, Phase-8B (Sector-74), Mohali, Punjab-160071 through Director (hereinafter called the second party)

1. Preamble

Himachal Pradesh State Water and Sanitation Mission is in the process of developing State specific information, Education & Communication strategy and its implementable for reform in initiatives in Water & Sanitation sector for the capacity development of functionaries at all levels. In order to strengthen the quality aspect of public drinking water supply in the State of Himachal Pradesh the concept of third party inspection by assigning roles and responsibility to above second party is envisaged through this MoU.

M/s Eco Laboratories Private Limited is an ISO-14001:2004 and ISO 18001:2007 certified Organization working in the field of environment in North India since 1999. It is accredited by **National Accreditation Board for Testing and Calibration Laboratories (NABL)**, Department of Science & Technology, Government of India (Certificate No. NABL/T1775/C and T/1951/B) in the field of air, noise, water and wastewater testing including microbiological testing; it is also approved by **Ministry of Environment and Forests (MoEF)**, Government of India, vide SO2609(E) dated 22.11.11 as **Environmental Laboratory** under the Environment (Protection) Act, 1986. 30.09.11. It is known for water quality monitoring and undertaking many water quality mapping and monitoring projects in the region including for IPH.

2. Objective

This MoU defines the roles and responsibilities of two parties to this MoU, so as to enable them to work together as partners.

3. Period of the MoU

One year reckoned from the date of signing of MoU which can be extended further on mutual consent of both parties.

[Signature]
16/12/2014
Director (WSSO)
SWSSM, Chakri Bhatta 12 (H.P.)

[Signature]
16/12/14
Eco Laboratories & Consultants Pvt. Ltd.
E - 207 Industrial Area,
Phase-8B Sec. 74,
Mohali, Punjab-160071

4. Roles and Responsibilities of the First Party ; Water & Sanitation Support Organization (WSSO)

- i. To assign special task(s) to the Second Party to carry out the water sampling and tests particularly at the time of outbreak of water borne diseases in any area/town of the State or for random monitoring of the schemes.
- ii. To ensure timely due payments are made as per terms & conditions of MoU to the Second Party.

5. Role and Responsibilities of Second Party ; M/S Eco Laboratories & Consultants Pvt. Ltd., Mohali, Punjab


- i. To conduct field/lab tests in case of outbreak of Water borne disease in a particular Area/Town of the State after a written communication from Director WSSO or random tests of the samples from the schemes in the State including Water sampling and testing of samples or water samples as submitted by IPH field offices in the Lab at Mohali (Punjab).
- ii. Guidance on proper sampling protocol from water supply schemes to the staff of WSSO/IPH Department, field staff at the premises of second party as well as provision of sampling bottles.
- iii. To nominate a Project Coordinator and suggest his/her views/recommendations for overall improvement of the system for better delivery of quality drinking water to the public in the State.

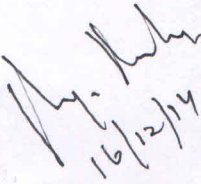
6. Terms and Conditions of Fund Release

- i. The concerned Executive Engineer from whose jurisdiction the water samples have been sent for testing will release with in 30 days to the second party the due amount on rising of the bill and submission of test reports and other claim documents.
- ii. Testing charges shall be as per Notification by Ministry of Environment & Forests No. Legal/42(3)/87 dated 15 June 2008. Testing charges for the parameters not covered under notification shall not exceed similar parameters in the notification.
- iii. Sampling charges shall be at the rate of Rs. 8/km to and fro from office of second party in Industrial Area, Phase-VIII B (Sector-74), Mohali through the shortest road route in addition Rs. 500/day/person (including travel days) shall be charged as diem for the sampling team of two/three people (or more depending upon volume of work). For far flung distances in the state where sampling may require more than one day arrangements for the stay of the team shall be made at the nearest state guest house or team shall be paid on actual (maximum Rs.750/night) for the purpose.
- iv. All kind of taxes and parking charges etc. will be borne by Second Party.

7. Other Conditions

- i. That sampling and testing will be undertaken on dates of mutual convenience and first party has to provide at least 72 hours prior intimation for the second party to make appropriate arrangements for the purpose.
- ii. That all correspondence made on the contact details provided in the MoU including emails shall be considered as delivered.
- iii. That the language of communication and reporting shall be English.
- iv. That any reports shall be provided in duplicate including a soft copy on CD.


16/12/14
Director (WSSO)
SWSM, Dhali Sahib-12 (H.P.)


16/12/14
Eco Laboratories &
Consultants Pvt. Ltd.
E - 207 Industrial Area,
Phase-8 B, Sec
Mohali, (Punjab)160011

- v. That laboratory shall maintain its accreditation and renew them as required from time to time. In case laboratory cannot undertake any tests at any time due to any breakdown in its equipments or otherwise it shall get the same tested from a NABL accredited laboratory only and shall maintain proper records of the same as per ISO-17025:2005
- vi. That for far flung areas if approach is not possible, the two parties shall undertake work in mutual discussion.

8. Termination of the MoU

The MoU can be terminated by both parties by giving a month's notice without assigning any reason thereto.

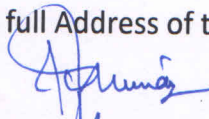

9. Disputes


Any disputes between the parties arising out of this MoU shall be settled, in the first instance, through mutual and amicable consultation. If the dispute is not settled through such consultations, the matter shall be referred for arbitration to the Principal Secretary/ACS, Irrigation & Public Health Department Himachal Pradesh.

IN WITNESS THE FIRST AND SECOND PARTY have herein to set their hands, the day, month and year first, above written.

SIGNED BY THE FIRST PARTY IN THE PRESENCE OF:-

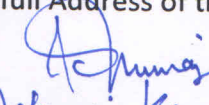

Name and full Address of the witness:-

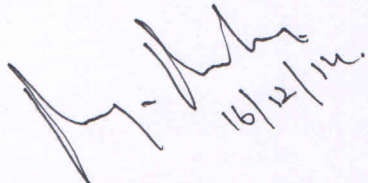
- 1.  16/12/14
(Er. Ashwani Kumar Sharma AE)
- 2.  16/12/14
Neelchand Verma, Jr Assst.

 16/12/2014.
(Signature of FIRST PARTY)
Director (WSPD)
SWSM, Dhara Shiksha 12 (H.P.)

SIGNED BY SECOND PARTY IN THE PRESENCE OF

Name and full Address of the Witness:-

- 1.  16/12/14
Er. Ashwani Kumar Sharma AE)
- 2.  16/12/14
Neelchand Verma, Jr Assst.

 16/12/14.
(Signature of SECOND PARTY)
ECO Laboratories & Consultants Pvt. Ltd.
E - 207 Industrial Area,
Phase-8 B, Sec. 74,
Mohali, (Punjab)160071

MINISTRY OF ENVIRONMENT AND FORESTS
(CENTRAL POLLUTION CONTROL BOARD)

NOTIFICATION

New Delhi, the 15th June, 2008

No. Legal/42(3)/87.—In exercise of the powers conferred under sub-section (3) of Section 16 and sub-section (2) of Section 17 read with sub-section (4) of Section 4 of the Water (Prevention and Control of Pollution) Act, 1974 (Act 6 of 1974) alongwith rule 28 of the Water (Prevention and Control of Pollution) Rules, 1975, and under sub-section (3) of Section 16 of Air (Prevention and Control of Pollution) Act, 1981 (Act 14 of 1981), the Central Pollution Control Board has established the Board's Laboratories at the places mentioned in Schedule I.

2. The fee payable to the Central Pollution Control Board Laboratories in respect of each report of analysis for various analytical parameters and sampling charges for the water, wastewater, soil, hazardous waste, air/fugitive emissions, source emission, noise monitoring, auto exhaust monitoring and ambient air quality monitoring shall be as per Schedule II : Schedule of sampling and analysis charges for Environmental Samples.
3. The fee prescribed under Schedule II will be subject to revision.
4. This notification shall come into force w.e.f. 1.4.2008

SCHEDULE – I

SCHEDULE OF BOARD'S LABORATORIES

S. No.	Place	Address
1.	Delhi	Parivesh Bhawan, East Arjun Nagar, Shahadra, Delhi – 110032
2.	Kolkata	Zonal Office – Kolkata 247, Deshpriya Sheshmal Road CIT Building, 1 st Floor Kolkata – 700033
3.	Vadodara	Zonal Office – Vadodara Synergy House – II Gorwa Subhanpura Road Vadodara - 390023

4.	Lucknow	Zonal Office – Lucknow Ground Floor, PICUP Bhawan Vibhuti Khand, Gomti Nagar Lucknow – 228010
5.	Bangalore	Zonal Office – Bangalore NISARGA Bhawan, A Block 1 & 2 Floor, Thimmaiah Main Road 7 th D Cross, Shivanagar Bangalore – 560086
6.	Bhopal	Zonal Office – Bhopal 3 rd Floor, Sahkar Bhawan North TT Nagar Bhopal – 462003
7.	Shillong	Zonal Office – Shillong Tumsir, Lumdiengob Lower Motinagar, Near Fire Brigade H. Q, Lumpyngngad Shillong – 793014

Schedule - II

Sampling charges for water & wastewater samples

S. No.	Type of sampling	Charges in Rs.
1.	GRAB SAMPLING:	
	1) Grab sampling/sample/place	550.00
	2) For every additional Grab sampling/same place	250.00
2.	COMPOSITE SAMPLING:	
	1) Composite sampling/source/place upto 8 hrs.	1000.00
	- do - upto 16 hrs.	2000.00
	- do - upto 24 hrs.	3000.00
	2) For every additional composite sampling/same place but different source upto 8 hrs.	550.00
	- do - upto 16 hrs.	1100.00
	- do - upto 24 hrs.	1650.00
3.	Flow Rate measurement/source	
	- once	400.00
	- do - every additional	150.00

Analysis charges of Water & Wastewater samples

S. No.	Parameters	Analysis charges per test in Rs.
PHYSICAL PARAMETERS		
1.	Conductivity	60.00
2.	Odour	60.00
3.	Sludge Volume Index (S.V.I.)	200.00
4. ✓	Solids (dissolved)	100.00 ✓
5.	Solids (fixed)	150.00
6.	Solids (volatile)	150.00
7.	Suspended Solids	100.00
8.	Temperature	60.00
9.	Total Solids	100.00
10. ✓	Turbidity	60.00 ✓
11.	Velocity of Flow (Current Meter)	200.00
12.	Velocity of Flow (other)	550.00
1.	Acidity	100.00
2. ✓	Alkalinity	100.00 ✓
3. ✓	Ammonical Nitrogen	200.00 ✓
4.	Bicarbonates	100.00
5. ✓	Biochemical Oxygen Demand (BOD)	600.00 ✓
6.	Bromide	100.00
7.	Calcium (titrimetric)	100.00
8.	Carbon Dioxide	100.00
9.	Carbonate	100.00
10. ✓	Chloride	100.00 ✓
11.	Chlorine Demand	200.00
12. ✓	Chlorine Residual	100.00 ✓
13. ✓	Chemical Oxygen Demand (COD)	350.00 ✓
14.	Cyanide	350.00
15.	Detergent	200.00
16. ✓	Dissolved Oxygen	100.00 ✓
17. ✓	Fluoride	200.00
18.	H. Acid	350.00
19.	Hardness (calcium)	100.00
20. ✓	Hardness (total)	100.00
21.	Iodide	100.00
22. ✓	Nitrate Nitrogen	200.00
23.	Nitrite Nitrogen	200.00
24.	Percent Sodium	600.00
25.	Permanganate Value	200.00
26. ✓	pH	60.00 ✓
27.	Phosphate (ortho)	200.00
28.	Phosphate (total)	350.00

S. No.	Parameters	Analysis charges per test in Rs.
29.	Salinity	100.00
30.	Sodium Absorption Ratio (SAR)	600.00
31.	Settleable Solids	100.00
32.	Silica	200.00
33.	Sulphate	150.00
34.	Sulphide	200.00
35.	Total Kjeldahl Nitrogen (TKN)	350.00
36.	Urea Nitrogen	350.00
37.	Cations (Na ⁺ , NH ₄ ⁺ , K ⁺ , Ca ⁺⁺ & Mg ⁺⁺) and Anions (F ⁻ , Br ⁻ , Cl ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , SO ₄ ⁺⁺ & PO ₄ ⁺⁺) in surface & ground water sample using Ion Chromatograph	1200.00 (for 12 ions)
	Processing / pretreatment Charge per Sample	500.00
1.	Aluminium	300.00
2.	Antimony	300.00
3.	Arsenic	300.00
4.	Barium	300.00
5.	Beryllium	300.00
6.	Boron	300.00
7.	Cadmium	300.00
8.	Chromium Hexavalent	200.00
9.	Chromium Total	300.00
10.	Cobalt	300.00
11.	Copper	300.00
12.	Iron	300.00
13.	Lead	300.00
14.	Magnesium	200.00
15.	Manganese	300.00
16.	Mercury (Processing & Analysis)	800.00
17.	Molybdenum	300.00
18.	Nickel	300.00
19.	Potassium	200.00
20.	Tin	300.00
21.	Selenium	300.00
22.	Silver	300.00
23.	Sodium	200.00
24.	Strontium	300.00
25.	Vanadium	300.00
26.	Zinc	300.00
	Organo Chlorine Pesticides (OCPs)	
	Processing / pretreatment Charge per Sample	1000.00
1.	Aldrin	400.00
2.	Dicofol	400.00
3.	Dieldrin	400.00
4.	Endosulfan-I	400.00
5.	Endosulfan-II	400.00
6.	Endosulfan sulfate	400.00
7.	Heptachlor	400.00
8.	Hexachlorobenzene (HCB)	400.00
9.	Methoxy Chlor	400.00
10.	o,p DDT	400.00
11.	p,p'-DDD	400.00
12.	p,p'-DDE	400.00
13.	p,p'-DDT	400.00
14.	α-HCH	400.00
15.	β-HCH	400.00
17.	γ-HCH	400.00

S. No.	Parameters	Analysis charges per test in Rs.
18.	δ -HCH	400.00
	Organo Phosphorous Pesticides (OPPs)	
	Processing / pretreatment Charge per Sample	1000.00
19.	Chlorpyrifos	400.00
20.	Dimethoate	400.00
21.	Ethion	400.00
22.	Malathion	400.00
23.	Monocrotophos	400.00
24.	Parathion-methyl	400.00
25.	Phorate	400.00
26.	Phosphamidon	400.00
27.	Profenophos	400.00
28.	Quinalphos	400.00
	Synthetic Pyrethroids (SPs)	
	Processing / pretreatment Charge per Sample	1000.00
29.	Deltamethrin	400.00
30.	Fenpropethrin	400.00
31.	Fenvalerate	400.00
32.	α -Cypermethrin	400.00
33.	β -Cyfluthrin	400.00
34.	λ -Cyhalothrin	400.00
	Herbicides	
	Processing / pretreatment Charge per Sample	1000.00
35.	Alachlor	400.00
36.	Butachlor	400.00
37.	Fluchloralin	400.00
38.	Pendimethalin	400.00
	Polycyclic Aromatic Hydrocarbons (PAHs)	
	Processing / pretreatment Charge per Sample	1000.00
39.	Acenaphthene	400.00
40.	Acenaphthylene	400.00
41.	Anthracene	400.00
42.	Benz(a)anthracene	400.00
43.	Benzo(a)pyrene	400.00
44.	Benzo(b)fluoranthene	400.00
45.	Benzo(e)pyrene	400.00
46.	Benzo(g,h,i)perylene	400.00
47.	Benzo(k)fluoranthene	400.00
48.	Chrysene	400.00
49.	Dibenzo(a,h)anthracene	400.00
50.	Fluoranthene	400.00
51.	Fluorene	400.00
52.	Indeno(1,2,3-cd)pyrene	400.00
53.	Naphthalene	400.00
54.	Perylene	400.00
55.	Phenanthrene	400.00
56.	Pyrene	400.00
	Polychlorinated Biphenyls (PCBs)	
	Processing / pretreatment Charge per Sample	1000.00
57.	Aroclor 1232	400.00
58.	Aroclor 1242	400.00
59.	Aroclor 1248	400.00
60.	Aroclor 1254	400.00
61.	Aroclor 1260	400.00
62.	Aroclor 1262	400.00

S No.	Parameters	Analysis charges per test in Rs.
	Tri Halo Methane (THM)	
	Processing / pretreatment Charge per Sample	800.00
63.	Bromo dichloromethane	400.00
64.	Bromoform	400.00
65.	Chloroform	400.00
66.	Dibromo chloromethane	400.00
	Other Organic Parameter	
67.	Adsorbable Organic Halogen (AOX)	2000.00
68.	Tannin / Lignin	350.00
69.	Oil & Grease	200.00
70.	Phenol	200.00
71.	Total Organic Carbon (TOC)	500.00
72.	Volatile Organic Acids	350.00
1.	Bacteriological Sample Collection	200.00
2.	Benthics Organism Identification & Count (each sample)	600.00
3.	Benthics Organism Sample collection	
4.	Chlorophyll Estimation	1000.00
5.	E. Coli (MFT technique)	600.00
6.	E. Coli (MPN technique)	400.00
7.	Faecal Coliform (MFT technique)	350.00
8.	Faecal Coliform (MPN technique)	400.00
9.	Faecal Streptococci (MFT technique)	350.00
10.	Faecal Streptococci (MPN technique)	450.00
11.	Plankton Sample collection	400.00
12.	Plankton (Phytoplankton) count	250.00
13.	Plankton (Zooplankton) count	600.00
14.	Standard Plate Count	600.00
15.	Total Coliform (MFT technique)	200.00
16.	Total Coliform (MPN technique)	400.00
17.	Total Plate Count	350.00
18.	Toxicological - Bio-assay (LC ₅₀)	350.00
19.	Toxicological - Dimensionless toxicity Test	2000.00
		1500.00