

**HIMACHAL PRADESH
JAL SHAKTI VIBHAG
SWSM, JAL SHAKTI BHAWAN, SHIMLA-5**

No: SWSM-WSSO-SLL/ 2020-21/ 1939-2010 Dated:- 13-08-2020
To

All the Executive Engineer
Under Jal Shakti Vibhag

Subject: Designating State Level Laboratory for water testing in Himachal Pradesh as per JJM guidelines.

A Memorandum of Understanding (MoU) has been entered on dated 07-08-2020 between M/s Eco Laboratories & Consultants Pvt. Ltd., E 207, Industrial Area, Phase-8B (Sector-74), Mohali, Punjab-160071 and State Water and Sanitation Mission, Jal Shakti Bhawan, Shimla-5, Himachal Pradesh to designate as State laboratory for water testing in Himachal Pradesh. The complete details of MoU along with Terms of Reference (ToR) is hoisted on the departmental website. *The MoU will be valid for w.e.f. 07-08-2020 to 06-08-*

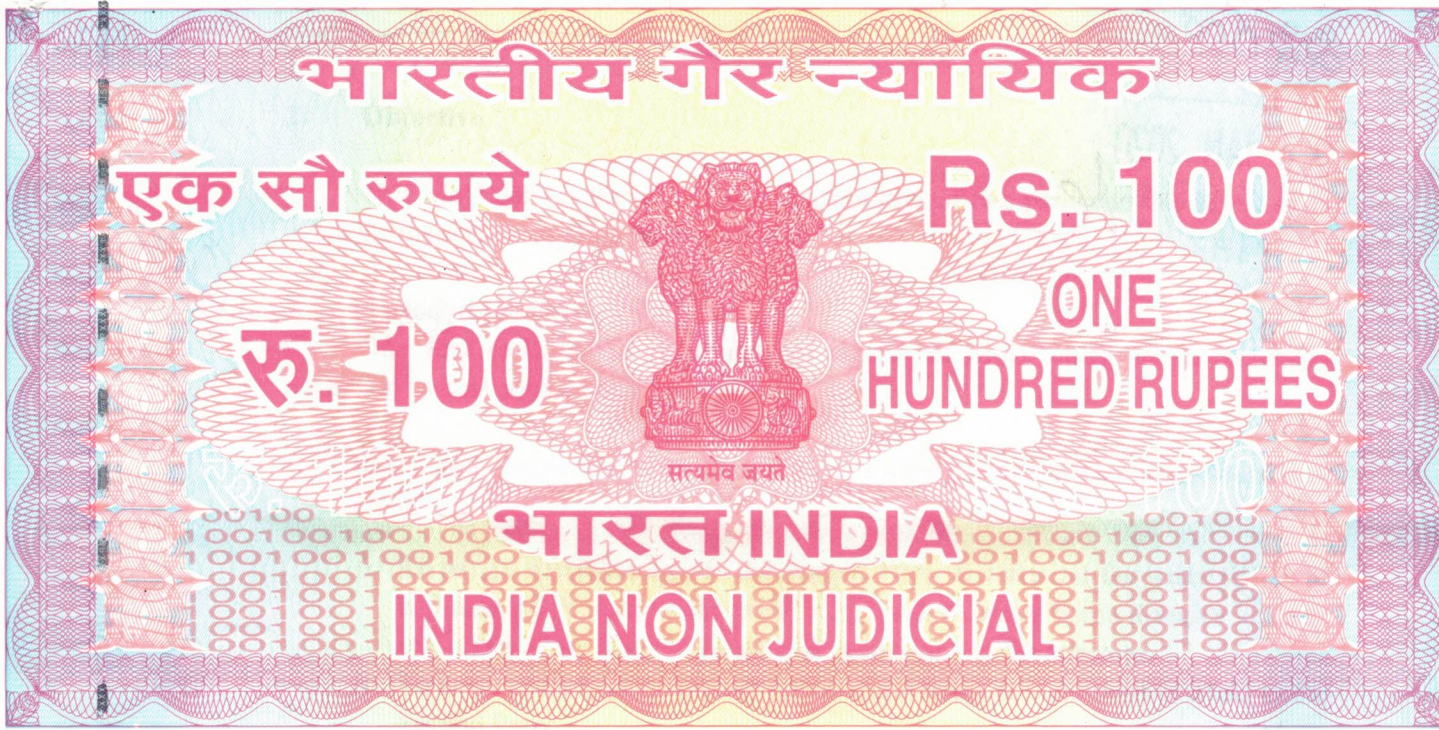
Encl: As above

Chief Engineer
Cum Director in Charge (S&I)
SWSM, Jal Shakti Bhawan, Shimla-5

Copy to:-

1. The Secretary (JS) to the Govt. of Himachal Pradesh, Shimla-2 for information please
2. The Engineer-in-Chief (JSV) cum Mission Director (SWSM), Jal Shakti Vibhag, Shimla-5 for information please.
3. All the Chief Engineers of Jal Shakti Zone for information please.
4. All the Superintending Engineer, of Jal Shakti Circles for information please
5. The Director, M/s Eco Laboratories & Consultants Pvt. Ltd. (Eco Lab), E 207, Industrial Area, Phase-8B (Sector-74), Mohali, Punjab-160071 for information please.
6. Programmer, Computer Cell, Jal Shakti Bhawan, Shimla-5 for uploading the same on department website.

Chief Engineer
Cum Director in Charge (S&I)
SWSM, Jal Shakti Bhawan, Shimla-5



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GOVERNMENT OF HIMACHAL PRADESH
STATE WATER AND SANITATION MISSION

MEMORANDUM OF UNDERSTANDING

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

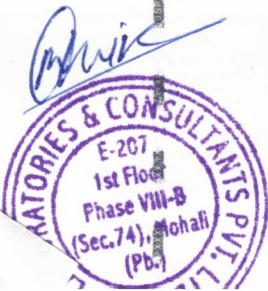
This Memorandum of Understanding (MoU) is entered on ...07th... day of August, 2020 between:

1. State Water and Sanitation Mission (SWSM) through Director in Charge (S&I) SWSM (hereinafter called the first Party) and
2. 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 & Consultants 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. TC-7477) 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.



Director Engineer
Shri. Shri.

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.

4. Roles and Responsibilities of the First Party ; State Water and Sanitation Mission (SWSM)

- 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 payments are made as per terms & conditions of MoU to the Second Party.

5. Role and Responsibilities of Second Party ;

- 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 in Charge (SWSM) 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 Jal Shakti field offices in the Lab at Mohali, Punjab.
- ii. To provide training and guidance on proper sampling protocol from water supply schemes/sources and Water Quality testing for all the parameter attached at annexure -A to the staff of SWSM/Jal Shakti Vibhag, field staff at the premises of second party as well as at the premises of first party, as required.
- 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 the payment within 30 days to the second party for the amount due on raising of the bill and submission of test reports and other claim documents.
- ii. Testing charges for each parameter shall be as per annexure -A.
- iii. Charges for conducting capacity building programme / trainings on proper sampling protocol and water analysis (parameter mentioned in annexure -A) to the staff of SWSM/Jal Shakti Vibhag, field staff at the premises of second party shall be Rs. 7000 /-person/ day including boarding and lodging of participants/ trainees and Rs. 10000/- Per trainer per day at the premises of first party.
- iv. Sampling charges shall be at the rate of Rs. 15 /-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.850 /-day/person (including travel days) shall be charged as dine 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. 1700/-night) for the purpose.
- v. All kind of toll-taxes and parking charges etc. will be borne by Second Party

D. Singh
Chief Engineer
Chief Director WSSO
Mohali, Shakti-5



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.
- 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-17025:2017.
- 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.

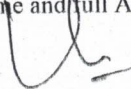

9. Disputes

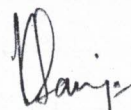
Any disputes between the parties arising out of this MoU shall be settled, in the first instance, through mutual and amicable consultation. If the dispute is not settled through such consultations, the matter shall be referred for arbitration to the Principal Secretary/ACS, Jal Shakti Vibhag, Himachal 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:-

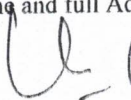

Name and full Address of the witness:-

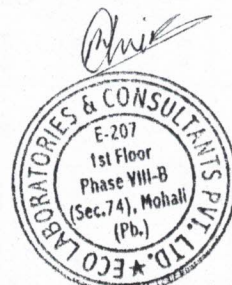
1.  (Umesh Sood)
AE (SWSM)
2.  (Pawan Pal)
Consultant WQMS (SWSM)


(Signature of FIRST PARTY)
Chief Engineer
Cum Director WSSO
Tutundeh, Shimla-5

SIGNED BY SECOND PARTY IN THE PRESENCE OF

Name and full Address of the Witness:-

1.  (Umesh Sood)
AE (SWSM)
2.  (Pawan Pal)
Consultant, WQMS, SWSM



(Signature of SECOND PARTY)

Annexure-A

List of Parameters

Sr. No.	Name of Parameter	Rates (in Rs.)
1	Temperature	70
2	Colour	70
3	Odour	70
4	Taste	70
5	Turbidity	70
6	pH	80
7	TDS/Elect.Conductivity	110/70
8	Total Alkalinity	240
9	Chloride	240
10	Fluoride	240
11	Ammonia	240
12	Nitrate	240
13	Nitrite	240
14	Sulphate	230
15	Silica	240
16	Sodium	240
17	Potassium	330
18	Boron	330
19	Calcium	240
20	Magnesium	240
21	Total Hardness	240
22	Sulphide	240
23	Chloramines	330
24	Iron	330
25	Manganese	400
26	Copper	400
27	Total Chromium	400
28	Cadmium	400
29	Lead	400
30	Nickel	400
31	Total Arsenic	400
32	Mercury	900
33	Barium	400
34	Zinc	400
35	Aluminium	400
36	Antimony	400
37	Selenium	400
38	Silver	400
39	Molybednum	400
40	Total Coliform	410
41	E.coli/Thermotolerant Coliform	410
42	V.cholera	340
43	S.typhi	410
44	S.dysentrac	410
45	Staphylococcus	330
46	F.streptococci	330
47	G.lamblia	410
48	Cyanide	400
49	Poly Aromatic Hydrocarbons	4800
50	Free Residual Chlorine	115
51	Polychlorinated Biphenyls	4800
52	NDMA	-
53	Anionic Detergents (as MBAS)	450
54	Oil & Grease	240
55	Mineral oil	450
56	Dissoved Oxygen	115
57	Biological Oxygen Demand (BOD)	700
58	Chemical Oxygen Demand (COD)	400
59	Phenolic Compound	450
60	Trihalomethanes a.Bromoform b.Dibromomethane c.Bromodichloromethane d.Chloroform	5600
61	Alachlor	560
62	Atrazine	560
63	Aldrin/Deildrin	560
64	Alpha HCH	560
65	Beta HCH	560
66	Butachlor	560
67	Chloropyriphos	560
68	Delta HCH	560
69	2,4-Dichlorophenoxyacetic acid	560
70	DDT	560
71	Endosulfan	560
72	Ethion	560
73	Gamma-HCH (Lindane)	560
74	Isoproturon	560
75	Malathion	560
76	Methyl parathion	560
77	Monocrotophos	560
78	Phorate	560

GST will be charged Extra on above charges as applicable.

Chief Engineer
Cum Director WSSO
Tutikandi, Shimla-5

