



GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
TECHNOLOGY TRANSFER & COLLABORATION DIVISION

V. K. Upadhyay,
Scientific Officer 'E',
TT&CD, BARC,
Trombay,
Mumbai-400085.

Tel : 91 - 22 - 25590815
E-mail : ykv@barc.gov.in

Ref: TT&CD/DWP-MAD/VKU/2018/8536

August 24, 2018.

Dear Shri Kishor,

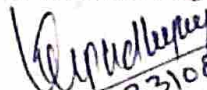
Sub: Technology Transfer of "On-line domestic water purifier based on ultrafiltration polysulfone membrane (WT11MDS)" & "Membrane Assisted Defluoridation Process for Safe Drinking Water (WT09MDS)" technologies..


Please find enclosed herewith the original Technology Transfer Agreement on stamp paper for transfer of above technologies duly executed by the competent authority from BARC on 21.08.2018 (Technology Transfer Date) for your record. Kindly acknowledge receipt.

With best wishes,

Encl.: a/a

Yours sincerely,

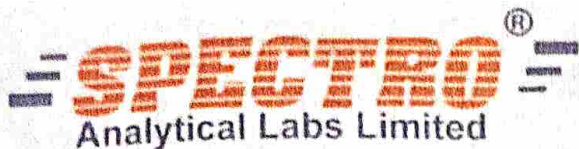

23/08/2018
(V. K. Upadhyay)


21/08/2018
Through :(Shrikrishna Gupta)
Head, TT&CD.

To,

Shri Kurlal Kishor, Proprietor,
M/s Learners Corporation,
Ward No.-9, Rampur (West),
P.O.- Jamalpur, Dist.: Munger (Bihar)
Pin: -811214.

Speed Post



Analytical Labs Limited
CIN:U74220DL1998PLC092698

TEST REPORT

Test Report Issued To:

LEARNERS CORPORATION

VILLAGE-RAMPUR, JAMALPUR, BIHAR, INDIA, 811214.

Test Report No: D200908010/D200908010-10

Date of Issue: 28-Sep-2020



Sample Booking Receipt Date: 08-Sep-2020

Date of Start of Testing: 08-Sep-2020

Date of Completion of Test: 28-Sep-2020

Customer Relationship Number: 60882

Sample Description :

POLYSULFONE COATED ULTRAFILTRATION CANDLE



Customer Reference No

Kind Attention : MR.KUNAL KISHOR

E-Mail: support@impure.in

Contact No: 8210005105

Sample Condition : GOOD

Sample Quantity (Approx) :

Sample Size (Approx) :

SAMPLE NOT DRAWN BY OUR LABORATORY THE RESULTS RELATE ONLY TO THE ITEMS TESTED

SPECTRO ANALYTICAL LABS LTD
Digitally signed
by YOGESH
MALIK
Date: 2020.09.28
12:00:02 +05:30
Report Issued By

Authenticity of report can be verified by mail at verification@spectro.in
This is a Digitally Signed Report and hence doesn't require Physical Signature.

Spectro Analytical Labs Limited, E-41, Okhla Ind. Area, Phase-II, New Delhi-110020(India)
Phone :+91-11-40522000, 41611000 || Web: www.spectro.in | Email: care@spectro.in
ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory
Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

ID-D200908010-1

Microbiological TestingANALYSIS REPORT (POLYSULFONE COATED ULTRAFILTRATION CANDLE)

Challenge Organisms: E.coli

Test Procedure: Challenge organism E.coli is inoculated in nutrient broth and incubated at 37°C for 24 hours, calculate the cfu/ml by the pour plate technique.

10 liter tap water is sterilized at 121°C/20 minute after cool down tap water, E.coli suspension culture is inoculated as 3.15×10^5 cfu/ml in 10 liter sterilized tap water (synthetic inlet water).

Synthetic inlet water passed through the polysulfone coated ultrafiltration candle, collect the outlet water in sterilized glass bottles and perform the E.coli test by filtration technique.

2 liter purified water sample is contaminated with 25 NTU of Turbidity solution and passed through the polysulfone coated ultrafiltration candle, collect the outlet water in clean glass bottles and check the turbidity in outlet sample.

S. No	TEST PARAMETERS	RESULT			REQUIREMENT	METHOD
		SYNTHETIC INLET	PURIFIED WATER	% Reduction		
1	E.coli/100ml	3.15×10^5 cfu/ml	<1 cfu/ml	99.99%	Absent	IS-15185:2016
2	Turbidity, NTU	25	< 1.0	Not Applicable	5	IS-3025 (Pt-10): 1984

-- End of Test Report --

Analyst Signature



Authorised Signatory

दूरवाक्य :
TELEPHONE: 91-22-25595602 (OIT)
वात : बाकी-मुंबई, चेम्बूर.
TELEGRAMS: BARC-MUMBAI, CHEMBUR.
टेलिफक्स : ०२२-६२०२७/०२२-६२०२२ बाकी इन
TELEX: 011-81017/011-81022 BARO IN
फैक्स संख्या : ९२-२२-५५६०७५०
FAX NUMBER 91-22- 25505151
E-mail: soubiswa@barc.gov.in



सत्यमेव जयते



भबहा परमाणु अनुसंधान केंद्र
BHABHA ATOMIC RESEARCH CENTRE

Date: 18th Jan, 2021

TO

Shri Kunal kishor
M/s Learners Corporation

Dear Shri Kunal,

This is to inform you that the product fabricated and supplied by you, based on the technology of online polysulfone UF membrane, is performing as per the parameters recommended by us in the technology transfer document. We tested the membranes in our laboratory and the flux and rejection offered by the membrane candles are satisfactory.

Thank you.

With best regards,

Sincerely Yours

(Soumitra Kar)

Soumitra Kar, PhD
Scientist F & Group Leader
Special Membranes & Utilities Group
Desalination & Membrane Technology Division
Bhabha Atomic Research Centre
Trombay, Mumbai - 400085