



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, पुणे
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE

(An Autonomous Institution, Ministry of Human Resource Development, Govt. of India)

IISER Pune Campus, Dr. Homi Bhaba Road, Pune-411 008.

Ph. No 020 2590 8001 Fax 020 2588 7499 / 2589 8022

No: 54(2) /IISER/Pune/20-21/ 42

Dated 12/ 02 / 2021

NOTICE INVITING QUOTATION

Indian Institute of Science Education and Research, Pune invites online quotations on behalf of Director IISER Pune for below mentioned work from agencies, found eligible as per the minimum requirements defined in clause 1 & 2 of NIQ for the work mentioned below:

Name of work & Location: Supply installation, testing, commissioning of 200 LPH RO plant in LHC and PEBs block at IISER Pune Campus.

Last date and Time for Submission: 25 Feb 2021, 15:00PM

Date and Time of Quotation Opening: 25 Feb 2021, 15:30PM

ELIGIBILITY CRITERIA (Technical Qualification)

Clause 1.

The bidders who fulfill the following requirements shall be eligible to apply.

Joint ventures are not accepted

A) The applicant should be well establish and reputed contractor/specialized expert agency in field of supply, installation, testing and commissioning, Maintenance of water treatment/ water processing plant and having five years similar work experience and OEM, authorized service provider. The authorization registration/Certificate should be valid till the last date of receipt of tender.

B) Agency should have experience of having successfully completed works during the last seven years ending 11/02/ 2021

Three similar works each costing not less than **Rs. 3.0 lakh**. This should be certified by an officer not below the rank of Executive Engineer in Govt. Departments and Superintending Engineer/ Chief Project manager or Equivalent in other organizations. (Refer FORM C and FORM D)

Similar work means: Supply, installation, testing, commissioning, Maintenance of drinking water RO plant. Minimum Capacity of individuals RO Plant is 160 LPH.

Clause 2.

2.1 The agency shall have valid GST/PAN/TAN/ESIC/PF numbers/certificates.

2.2 Authorization certificates of OEM/service provider



Terms and Conditions:

1. The time allowed for carrying out the work will be **2 (Two) months** from the date of issue of work order.
2. The act of backing-out after quotation will debar such agencies for participating in future quotations of IISER PUNE. Bidder may e-mail queries on maintenance@iiserpune.ac.in or submit to IISER PUNE office in hard copy on all working days before a day of submission date of quotation. Rates quoted in words shall be treated as final for deciding L1 bidders.
3. Quotation can be obtained from IISER PUNE Engineering office at Main Building between **10 AM to 4 PM** on all working days before date of submission. Applicant may quote by downloading quotation document from IISER PUNE website www.iiserpune.ac.in
4. All agencies need to submit their quotation in hard copy in a sealed envelope containing two separate envelope, one envelope containing qualification documents mention in Clause 1 & 2 and second envelope containing sign, Stamp, NIQ documents with quoted rates to this office by suitable means on and before **25 /02/2021, 3:00PM**. Quotation received after the date & time specified above shall not be accepted. Any delays, postal delay etc. will not be entertained. Agency should quote for all the items in the BOQ. The bid shall be submitted in the original Bid document (as issued by the IISER, Pune) super scribing the name of work. Rates quoted in the words shall be treated as final for deciding L1 bidder. Quotations will be opened on the same day **(25/02/2021) at 3.30 PM** in the presence of agency or their authorized representatives, if any. Please mentioned – **Technical /Qualification bid** on envelope-1 and **Financial Bid** on envelope - 2.
5. Commercial bid/Financial bid envelop of technically qualified bidder shall be opened accordingly intimation to technically qualified bidder. The offer of the agency should be commercially clear including acceptance of all terms and conditions of this Quotation by the agency. IISER Pune reserves the right to accept or reject the quotation/s without assigning any reasons. Quotations submitted with any conditions shall be treated as 'Conditional Quotation' and shall be summarily be rejected by IISER PUNE.
6. Quoted rates should be inclusive of cost of all the materials, labour cost , GST , all taxes, octroi, duties, cost of sample and fees towards testing of materials in labs, royalties etc. complete. Nothing extra shall be paid separately.



7. All approved makes shall be as per list attached with this and as per CPWD and manufactures specifications. (OEM) Agency should put-up technical data and obtain prior approval on makes of various materials of IISER PUNE before taking-up work.
8. The successful agency shall make his own arrangement for all Tools & tackles for work etc complete in view of completion of work. Electricity shall be provided free of cost to agency at one source, agency should make own arrangement to safely tap of power from source to work location.
9. No advance payment shall be made by IISER Pune. Quoted rates should be including GST, TDS and other applicable taxes and cess will be deducted from the bills of the work as applicable.
10. No running account bill shall be paid for the work till the applicable labor licenses, registration with EPFO, ESIC and BCOW welfare board, whatever applicable is submitted by the contractor to the Engineer-in-charge. Payment shall be done after satisfactory completion of work in each quarter on quarterly basis only.
11. Specification for the work to be carried out as per BOQ, latest CPWD specification, IS specifications, manufactured specification & as per instruction of IISER PUNE whenever specification CPWD/ IS specification are not available.
12. The contractor shall ensure that minimum wages should be paid to the labours and employees in accordance with labour laws.
13. L1 Agency to submit actual measurements and abstract sheet to IISER PUNE within 30 days from completion of work.
14. The Eligibility cum Technical bid shall be opened first at **3:30 pm on 25/02/2021**. The Financial bid shall be opened of those bidders who qualify in the eligibility of Technical bid. The time and date of opening of financial bid of the eligible bidder shall be communicated at a later date. The institute shall not accept any loss or delay in transit as an excuse for late tendering.
15. **CLAUSE- 10 CC** as mentioned below is not applicable
(Clause 10CC:- Payment due to Increase / Decrease in Prices / Wages after Receipt of quotation for Works. Is not applicable.


Executive Engineer,
IISER Pune

- Encl: -
1. Schedule of Quantity
 2. Scope of Work
 3. Form C
 4. Form D

Sign & stamp of Agency



FORM 'C'

**DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED DURING THE LAST 7
(Seven) YEARS ENDING PREVIOUS DAY OF THE DATE OF SUBMISSION OF TENDER**

S. No.	Name of work/ proje ct and locati on	Owner or Sponsori ng Organiza tion	Cost of work in lakh of Rupees	Date of commen cement As per contrac t	Stipulat -ed date of comple tion	Actual date of compl etion	Litigation /arbitrati on cases pending /in progress with details	Name and address /telephone number of officer to whom reference may be made	Remar -ks

- Indicate gross amount claimed and amount awarded by the Arbitrator.



SIGNATURE OF BIDDER(S)

FORM D

PERFORMANCE REPORT OF WORKS COMPLETED REFERRED TO IN PROFORMA 'C'

1. Name of the work/Project & Location.
2. Agreement No.
3. Estimated Cost
4. Tendered Cost
5. Date of Start
6. Date of completion
 - (a) Stipulated date of completion.
 - (b) Actual date of completion.
7. a) Whether case of levy of compensation for Delay has been decided or not ?
Yes / No
b) If decided, amount of compensation levied for Delayed completion if any?
8. Amount of reduced rate items, if any
9. Performance report
 - i) Quality of Work: Outstanding/Very Good / Good / Poor
 - ii) Financial soundness: Outstanding/Very Good / Good/ Poor
 - iii) Technical Proficiency: Outstanding/Very Good / Good / Poor
 - iv) Resourcefulness: Outstanding/Very Good / Good / Poor
 - v) General Behavior: Outstanding/Very Good / Good / Poor

DATED:

Executive Engineer or Equivalent



Bill Of Quantity (BOQ)

Name Of Work:- :- Supply, Installation, Testing & Commissioning of 200 LPH RO Plant in LHC & PEBs Block at IISER Pune Campus.

Sr.No	Description	Qty	Unit	Rates in words and figure (Including all taxes, labour etc.)	Amount
1	<p>Supply, Installation, testing & commissioning of 200 LPH RO Plant (Automatic)</p> <p>Technical specification as per attached sheet.. (Annexure -I) It includes all lead lifting of all material on (upto 20 m height) terrace of buildings etc. Quoted rate shall be including cost of lead , lift , GST , material , labours etc complete. Nothing extra shall be paid separately. Fully commissioned RO plant output within defined output parameters shall be measured for payments. Quoted rate shall be including cost of uPVC piping work associated with RO plant upto treated water tank. Distribution after treated water tank shall be measured separately. Inlet parameters of water as per tender. RO plant shall bear warranty of 12 months from date of commissioning, bidder shall maintain RO plant during warranty period. Agency shall handover list and make of inventory to IISER Pune after commissioning of Plant.</p> <p>SCHEME : Raw Water Tank ---> Raw Water Pump (2 Nos.- 1W+1S) > Pre- Chlorination ---> DMF ---> ACF --->Antiscalant Dosing -- RO Block---pH Correction --->UV System --- > Post chlorination--Treated water Tank (Raw water tank/piping and treated water tank shall be measured separately)</p> <p>Note- Provision for Untreated water should not flow in treated tank after UV Lamp in case of UV failure.</p> <p>After Installation and commissioning of RO plant, water report of inlet and outlet of RO plant shall be submitted. water report shall be tested by third part (laboratory) approved by NABL,MoEF GOvt of India.</p> <p>Refer enclosed technical data and raw water report. (Annexture -1)</p>	2	Nos.		
2	<p>Supply and installation of water cooler with Cooling capacity of 40 Ltr & tank capacity of 80 Ltr with 2 nos taps, with automatic level sensor make Celfrost S. DLX, Voltas & Blustar.</p>	5	Nos.		



3	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit/Casing Capping as required.				
3.1	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	40	Mtr		
4	Supplying and fixing suitable size GI/PVC box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required	5	Each		
5	Supply of 3 C x 4 sqmm copper armoured cable with 1.1 KV grade, PVC insulated (Make Polycab, Finolex,RR)	60	Mtr		



6	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of upto 35 sqmm size on wall surface as required., with required accessories like clamps, screws, labour, handling etc as complete.	60	Mtr		
7	Supplying and making end termination with duble crompression gland and copper lugs for 3 c x 4 sqmm size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	4	Each		
8	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	2	Each		
	Total (including all nothing extra shall be paid)				



Kulkarni
Executive Engineer ISER Pune

Annexture -1

SECTION – I

THE WATER TREATMENT PROJECT IS DESIGNED TO TREAT 200 LPH RO PLANT

FEED WATER LIMITS:

I) INLET WATER :

Parameter	Unit	Value
Total Hardness	mg/lit	Approx. 500
TDS	mg/lit	Approx. 500
TSS	mg/lit	
Turbidity		

II) TREATED WATER :

Parameter	Unit	Value
Total Hardness		Less than 5 ppm
TDS		Less than 20 ppm
TSS mg/lit.	mg/lit	Nil
Turbidity -		Nil

SECTION – II

1. RAW WATER PUMP

No. of units 2 Nos.	1 +1 No.
Capacity	0.5M3/Hr. @ 30 meter Head
Type	Centrifugal, Monoblock
HP	0.5 HP, -Single Phase
Material of Construction	CI
Make	Kirloskar/CRI/Compton

2. PERESSURE SAND FILTER

Type	Down Flow Graded sand type
Size	200 MM Dia x 1350MM Height
Max Flow	3.5 M3
Material of Construction	FRP Composite
Vessel Make	Pentair
Filter media	Graded Sand, Gravels, Pebbles
Valve	PP Multiport Valve - Automatic
Valve Make	Initiative/ UKL/Midas
Working flow	1.5M3/Hr.
Quantity	1 No.
MPV Size	25 NB

3. ACTIVATED CARBON FILTER

Type	Down Flow Graded sand type
Size	200 MM Dia x 1350MM Height
Max Flow	1.5 M3
Material of Construction	FRP Composite
Vessel Make	Pentair
Filter media	Graded Sand, Carbon – 900 IV
Valve	PP Multiport Valve - Automatic
Valve Make	Initiative/ UKL/Midas
Working flow	0.5 M3/Hr.
Quantity	1 No.
MPV Size	25 NB



4. MICRON FILTRATION		
Quantity	2 Nos.	
Capacity	500 LPH	
Filter rating	5 Microns	
Size of cartridge	4" x 20" long	
MOC	PP	
5. ANTISCALENT DOSING SYSTEM		
Quantity	1 No.	
Type	Electronic dosing type	
Dosing pump MOC	PP	
Capacity	0 to 6-LPH	
Rate of dosing chemical	2 to 4 PPM	
Make	E-dose/l -dose / Dorco	
Solution tank	1 no.	
Capacity	30 liter HDPE	
Power	240 V, single phase	
MOC	HDPE	
6. HIGH PRESSURE PUMP		
Quantity	1 No.	
Capacity	500 LPH	
Pump type	Multistage Centrifugal	
Pump MOC	SS304	
Pump Make	Kirloskar/CRI/Compton	
HP	1 HP	
7. RO MEMBRANE ELEMENTS		
Model	4040 Elements	
Module type	Spiral wound	
Make of Membrane	TFC-polyamide/Eq.	
Membrane make	Hydranautics, Dow, Hydramem [ionexchange]	
Capacity	2,500 gallons per day	
Quantity	1 Nos.	
8. PRESSURE TUBE		
MOC	FRP	
type	Horizontal tube type	
Size	4" x 40"	
Max Pressure	400 psi	
Working pressure	150 psi	
Nos. offered	1 No.	
Make	UKL/Alfa	



9. ELECTRICAL PANEL		
Quantity	1 No.	
Make	Aster/Dorko/Proton Power Control	
10. INSTRUMENTATION		
A. Pressure Gauges		
Quantity	2 Nos.	
Type	Panel Mounted	
Make	Boumer/Equivalent	
Type	SS Bourbontype Glycerin filled	
Range	0-12kg/CM2	
B. Rotometer		
Quantity	2 Nos.	
Type	Panel Mounted	
Make	Aster/ Gangnet/Equivalent	
Type	Float	
Range	0 to 1500 LPH	
C. Conductivity Meter		
Quantity	1 No.	
Make	Initiative/Dorco	
Type	Digital Type	
Range	0-12kg/CM2	
11. PIPING		
No. of Quantity	1 Lot as per requirement.	
Low pressure piping	1 Lot	
Pressure Rating	20 Kg/cm2	
MOC	White UPVC – Schedule 40	
Make	Astral, prince,	
High Pressure Piping	1 Lot	
Pressure Rating	20 Kg/cm2	
MOC	White UPVC – Schedule 40	
Make	Astral, prince	
Cleaning arrangement with Tank	1 set	
Required Skid	SS-202 Grade	
Float	2 Nos.	
Location	In raw water & treated water tank	



12. UV Lamp system		
200 LPH UV System	1 No.	
Make	Sukrut, Alfa	
Flow rate @ 98% UVT EOL	250 LPH	
UV Lamp wattage	48 watt	
Reactor Chamber MOC	SS304L (Pickled, Passivated, and Electropolished)	
Maximum Operating pressure	75 psi	
Operating Voltage	230V / 50-60 Hz (±10%)	
Features of RO Plant		
1. RO PLANT SHALL HAVE FACILITY OF AUTOOFF-AUTOON BASED ON LEVEL OF TREATED WATER TANK.		
2. RO PLANT SHALL HAVE FACILITY OF AUTOOFF-AUTOON BASED ON INLET RAW WATER LEVEL, IT SHALL HAVE DRY RUN PROTECTION SYSTEM.		
3. IF TREATED TANK IS FULL , PLANT IS SHUT DOWN , THERE SHOULD NOT BE FLOW OF RAW WATER /DRAINING OF SYSTEM.		
4. In Case of UV lamp failure, RO plant shall have facility for Untreated water should not flow in treated tank using solenoid valve with alarm buzzer at RO controller.		
All Civil , Electrical , plumbing , water supply piping work , drain work etc shall be as per CPWD specifications.		



RAW WATER PARAMETERS



INSTA POLLUTECH LABS

Testing Services

'IMRAT', Lane No. B/23, Raikarnagar, Opp Mor Bunglow, Dhayarigaon,
Pune - 411041, Maharashtra (India) Tel.: 020-24392871 Mob.: +91 9422009576



Format No.: IPLForm/17

Water Sample Analysis Report

REPORT NO.	IPL / T / 03 / 32184		DATE OF ISSUE		14 / 03 / 2020
Name and Address	M/S. INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE, IISER CAMPUS, MAIN BLDG, DR. HOMI BHABHA ROAD, PASHAN, PUNE - 411 008.				Order Reference : As per the Work Order No. -
Sample Description / Type	WELL WATER		Sample Collected by	Our Representative	
Sampling Location	NCL-WELL WATER (INDOOR)		Sample Quantity / Packing	1 Lit. x 1 Bottle 200 ml x 1 sterile Glass Bottle	
Date of Sampling	11 / 03 / 2020		Date of Sample Receipt	11 / 03 / 2020	
Sampling Procedure	APHA 22 nd Edition, Part 1060, Page 1-39 & 1-4324 / 10 / 2015		Date of Completion of Analysis	14 / 03 / 2020	
Date of Start of Analysis	11 / 03 / 2020				

SR. NO.	PARAMETER	UNIT	RESULT	LIMITS AS PER IS 10500:2012 [Max]	METHODS OF ANALYSIS
A	ORGANOLEPTIC & PHYSICAL PARAMETERS				
1	Colour, Hazen Units	Hazen	<2	5	IS: 3025 (Part 4) - 1983
2	Odour	-	Agreeable	Agreeable	IS:3025 (part 5)
3	pH	-	6.98	6.5 to 8.5	IS:3025 (Part 11):1983 Reaffirmed, 2012
4	Taste	-	Unagreeable	Agreeable	IS:3025 (Part 7 & 8)
5	Turbidity [NTU]	NTU	<1	1	IS:3025 (Part 10):1984 Reaffirmed, 2012
6	TDS	mg/lit	428	500	IS:3025 (Part 16):1984 Reaffirmed, 2012
7	Calcium [as Ca]	mg/lit	89.94	75	IS:3025 (Part 140):1991 Reaffirmed, 2009
8	Chlorides [as Cl]	mg/lit	38.29	250	IS:3025 (Part 132):1986 Reaffirmed, 2009
9	Fluoride	mg/lit	0.287	1.0	APHA 22 nd Edition, Part 4500-F: D, Page 4-87
10	Residual Free Chlorine	mg/lit	0.21	0.2 [MIN]	IS:3025 (part 26)
11	Iron [as Fe]	mg/lit	0.082	0.3	IS:3025 (Part 53):2003 Reaffirmed, 2009
12	Magnesium [as Mg]	mg/lit	29.76	30	IS:3025 (Part 46):1984 Reaffirmed, 2009
13	Nitrate	mg/lit	8.13	45	APHA 22 nd Edition, Part 4500-NO ₃ B, Page 4-122
14	Sulphates [as SO ₄]	mg/lit	25.18	200	IS:3025 (Part 24): 1986 Reaffirmed, 1996
15	Total Alkalinity as CaCO ₃	mg/lit	320	200	IS:3025 (Part 23): 1986
16	Total Hardness as CaCO ₃	mg/lit	347.08	200	IS:3025 (Part 21): 2009
B	BACTERIOLOGICAL PARAMETERS				
17	E. coli	/ 100ml	Absent	Absent	IS: 1622 - 1981
18	Total Coliform Bacteria/MPN	MPN/100ml	Absent	Absent	IS: 1622 - 1981

Sr. No.	Name of Instrument	Lab ID No.	Certificate No.	Calibration Valid Up to	Name of Calibration Agency
1	pH Meter	IPLPH025	In House Calibration	-	In House
2	Oven	IPL/OVN020	T19/05/8/10909/02	20/08/2020	AICL Calibration Pvt.Ltd.
3	Autoclave	IPL/AUTOCCLAVE/013	051207	18/11/2020	Vijayesh Instruments Pvt. Ltd.
4	Incubator	IPL/BU069	051201	18/11/2020	
5	Laminar Air Flow	IPL/LFCAU067	MF1530	22/12/2020	MicroRik India

Remarks/Observations :- Test results does not comply as per IS 10500 for above parameters (Drinking water).

Authorised Signatory
(Mr. Sanjeev Katariya, Managing Director)

End of Test Report
Page 1

Results related to sample (s) drawn from client only.

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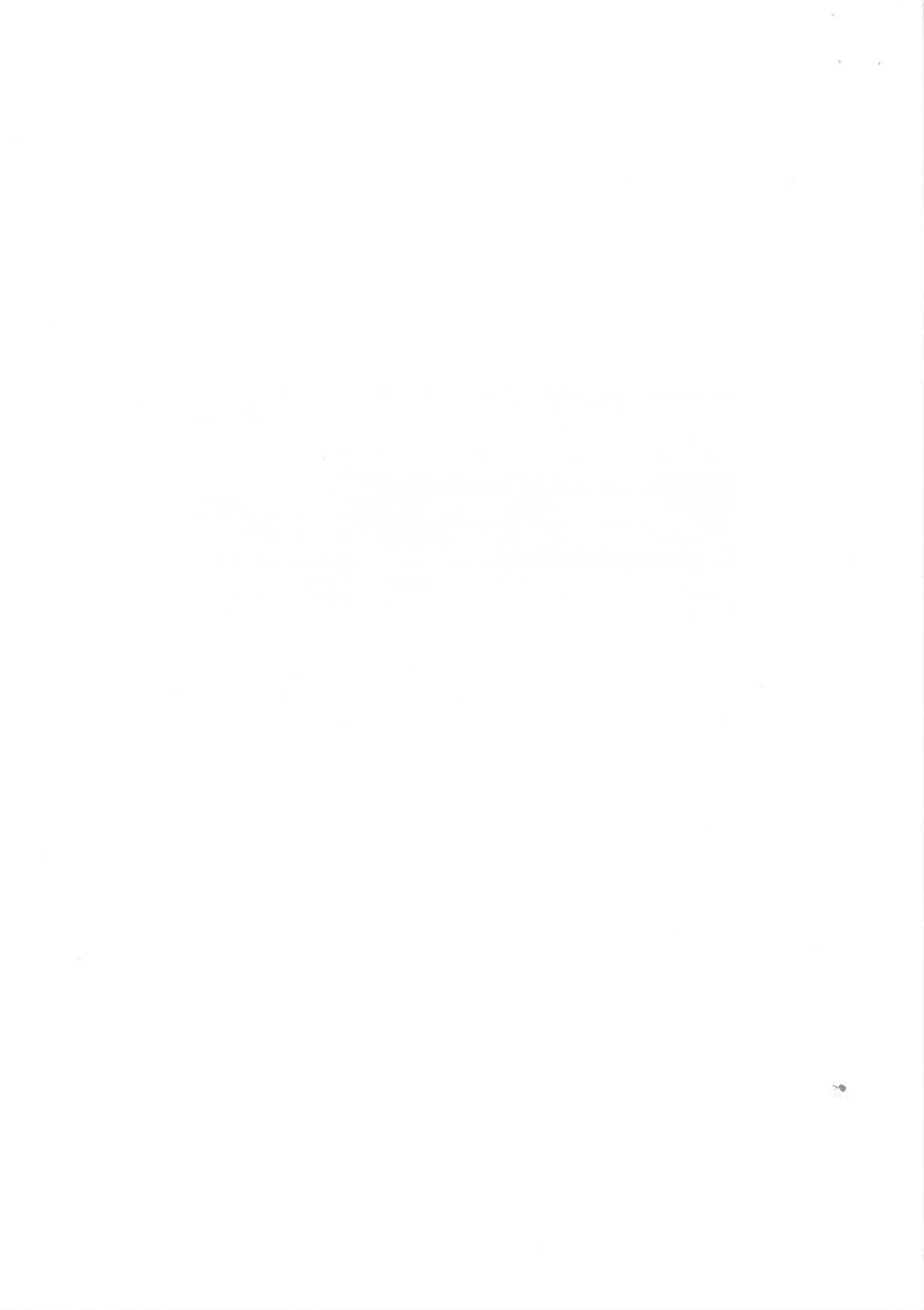
E-mail: sanjeevkatariya@instapollutechlabs.com, instapollutech@gmail.com

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TREATED WATER PARAMETERS



INSTA POLLUTECH LABS

Testing Services

"IMRAT", Lane No. B/23, Raikarnagar, Opp Mor Bungalow, Dhayargaon,
Pune - 411041, Maharashtra (India) Tel.: 020-24392871 Mob.: +91 9422009576



ISO 9001:2015
ISO 14001:2015
OHSAS 18001:2007
Reg. No.: RMH/7723



Format No.: IPL/Form/17

Water Sample Analysis Report

REPORT NO.	IPL / T / 03 / 32209		DATE OF ISSUE		17 / 03 / 2020
Name and Address	M/S. INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE, IISER CAMPUS, MAIN BLDG, DR. HOMI BHABHA ROAD, PASHAN, PUNE - 411 008.				Order Reference: As per the Work Order No. -
Sample Description / Type	DRINKING WATER		Sample Collected by	Our Representative	
Sampling Location	HOSTELL - 3		Sample Quantity / Packing	1 Lit. x 1 Bottle 200 ml x 1 sterile Glass Bottle	
Date of Sampling	13 / 03 / 2020		Date of Sample Receipt	13 / 03 / 2020	
Sampling Procedure	APHA 22nd Edition, Part 1060, Page 1-39 & 1-4324 / 10 / 2015				
Date of Start of Analysis	14 / 03 / 2020		Date of Completion of Analysis	17 / 03 / 2020	
SR. NO.	PARAMETER	UNIT	RESULT	LIMITS AS PER IS 10500:2012 [Max]	METHODS OF ANALYSIS
A ORGANOLEPTIC & PHYSICAL PARAMETERS					
1	Colour, Hazen Units	Hazen	<2	5	IS: 3025 (Part 4) - 1983
2	Odour	--	Agreeable	Agreeable	IS:3025 (part 5)
3	pH	--	6.97	6.5 to 8.5	IS:3025 (Part 11):1983 Reaffirmed, 2012
4	Taste	--	Agreeable	Agreeable	IS:3025 (Part 7 & 8)
5	Turbidity [NTU]	NTU	<1	1	IS:3025 (Part 10):1984 Reaffirmed, 2012
6	TDS	mg/lit	36.8	500	IS:3025 (Part 16):1984 Reaffirmed, 2012
7	Calcium [as Ca]	mg/lit	4.90	75	IS:3025 (Part 40):1991 Reaffirmed, 2009
8	Chlorides [as Cl]	mg/lit	10.53	250	IS:3025 (Part 32):1988 Reaffirmed, 2009
9	Fluoride	mg/lit	<0.2	1.0	APHA 22nd Edition, Part 4500-F: D, Page 4-87
10	Residual Free Chlorine	mg/lit	0.21	0.2 [MIN]	IS:3025 (part 25)
11	Iron [as Fe]	mg/lit	<0.075	0.3	IS:3025 (Part 53):2003 Reaffirmed, 2009
12	Magnesium [as Mg]	mg/lit	2.97	30	IS:3025 (Part 46):1994 Reaffirmed, 2009
13	Nitrate	mg/lit	<1	45	APHA 22nd Edition, Part 4500-NO ₃ -B, Page 4-122
14	Sulphates [as SO ₄]	mg/lit	<1	200	IS:3025 (Part 24): 1985 Reaffirmed, 1996
15	Total Alkalinity as CaCO ₃	mg/lit	20	200	IS:3025 (Part 23): 1985
16	Total Hardness as CaCO ₃	mg/lit	24.50	200	IS:3025 (Part 21): 2009
B BACTERIOLOGICAL PARAMETERS					
17	E. coli	/ 100ml	Absent	Absent	IS: 1622 - 1981
18	Total Coliform Bacteria/MPN	MPN/100 ml	Absent	Absent	IS: 1622 - 1981
Calibration Record					
Sr. No.	Name of Instrument	Lab ID No.	Certificate No.	Calibration Valid Up to	Name of Calibration Agency
1	pH Meter	IPL/pH025	In House Calibration		In House
2	Oven	IPL/JOV020	T1905/010905/02	20/09/2020	AICL Calibration Pvt.Ltd.
3	Autoclave	IPL/AUTOCLAVE013	051207	18/11/2020	Vijayesh Instruments Pvt. Ltd.
4	Incubator	IPL/BI069	051201	18/11/2020	
5	Laminar Air Flow	IPL/LUCAU07	MF330	22/12/2020	Microfit India

Remarks/Observations :- Test results comply as per IS 10500 for above parameters (Drinking water)

Authorised Signatory
(Mr. Sanjeev Kataria, Managing Director)

End of Test Report
Page 1

Results related to sample (s) drawn from client only.

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