



**Post Graduate Government College for Girls,
Sector 42, Chandigarh**

Affiliated to Panjab University, Chandigarh



NAAC Accredited 'A' Grade (CGPA – 3.21)

AISHE Code : C-29391

Internal Quality Assurance Cell (IQAC)



Prof. Lakhvir Singh
IQAC Coordinator

Prof. Nisha Aggarwal
Principal



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Office



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FAX



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gcg42chd@yahoo.com

Water Audit 2015



Eco Laboratories & Consultants Pvt. Ltd.
Environment Due-diligence, Monitoring and Analysis Services

ISO-14001:2004 OHSAS-18001:2007
CIN:U74140PB2011PTC034739

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TEST REPORT

Certificate No. T-1775
Certificate No. T-1901

| EL-15-16/ | | Lab No. | | EL020915NW08 | | Page-1/1 | | |
|---|---------------------------------------|--|-----------|---------------------|--------------------------------|--|--|--|
| Customer: | | Principal Post Graduate College for Women Sector-42, Chandigarh | | | | | | |
| Type of Sample: | | Water | | | | | | |
| Work Order No. & Date: | | Telephonic Order dated 01.09.15 | | | | | | |
| Mode of Collection of Sample: | | Sampling By Laboratory | | | | | | |
| Packing, Marking, Seal & Identity: | | Plastic Bottle & Sterilized Glass Bottle Marked 'T/2/01' | | | | | | |
| Quantity: | | 2litre + 250ml | | | | | | |
| Sampling Location: | | From Water Cooler (After RO) (Near Staff Room) | | | | | | |
| Sampling Protocol: | | IS: 3025-(P-1)-1987-R-1998 Amdt-1 | | | | | | |
| Date Of Sampling: | | 02.09.15 | | | | | | |
| Sampling Team: | | Lab Representative: Mr.Nitin & Team Customer Representative: Mr. Harish Kumar | | | | | | |
| Date of Receipt of Sample: | | 02.09.15 | | | | | | |
| Date of Reporting: | | 08.09.15 | | | | | | |
| Testing Protocol: | | IS: 10500-2012 | | | | | | |
| Remarks & Observation: | | Clear colorless liquid. | | | | | | |
| S.No | Test Parameters | Units | Results | Requirements | | Test Method | | |
| | | | | Desirable Limits | In Absence of Alternate Source | | | |
| 1. | Colour | Hazen units | < 5 | Max 5 | Max 15 | APHA-22nd Ed 2012-2120 B Visual Comparison (Pt Cobalt) Method | | |
| 2. | Odour | -- | Agreeable | Agreeable | Agreeable | IS3025 (P-5)1983 RA 1996 | | |
| 3. | Taste | - | Agreeable | Agreeable | Agreeable | IS 3025 (P-7/8)1984 RA 1996 | | |
| 4. | Turbidity | NTU | 0.4 | Max 1 | Max 5 | APHA-22 nd Ed 2012- 2130B Nephelometric Method | | |
| 5. | pH | - | 7.74 | 6.5 to 8.5 | No relaxation | APHA-22 nd Ed 2012 -4500 B | | |
| 6. | Total Hardness (asCaCO ₃) | mg/l | 100.65 | Max 200 | Max 600 | APHA-22 nd Ed 2012-2340C EDTA Method | | |
| 7. | Iron (as Fe) | mg/l | 0.11 | Max 0.3 | No relaxation | APHA-22 nd Ed 2012-3500 Fe B | | |
| 8. | Chlorides (as Cl) | mg/l | 7.65 | Max 250 | Max 1000 | APHA-22 nd Ed 2012- 4500 B Argentometric Method | | |
| 9. | Coliforms | MPN/100ml | Absent | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1 Multiple tube Dilution Test | | |
| 10. | E.Coli/100ml | -- | Absent | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1/3.3.4 Multiple tube Dilution Test | | |

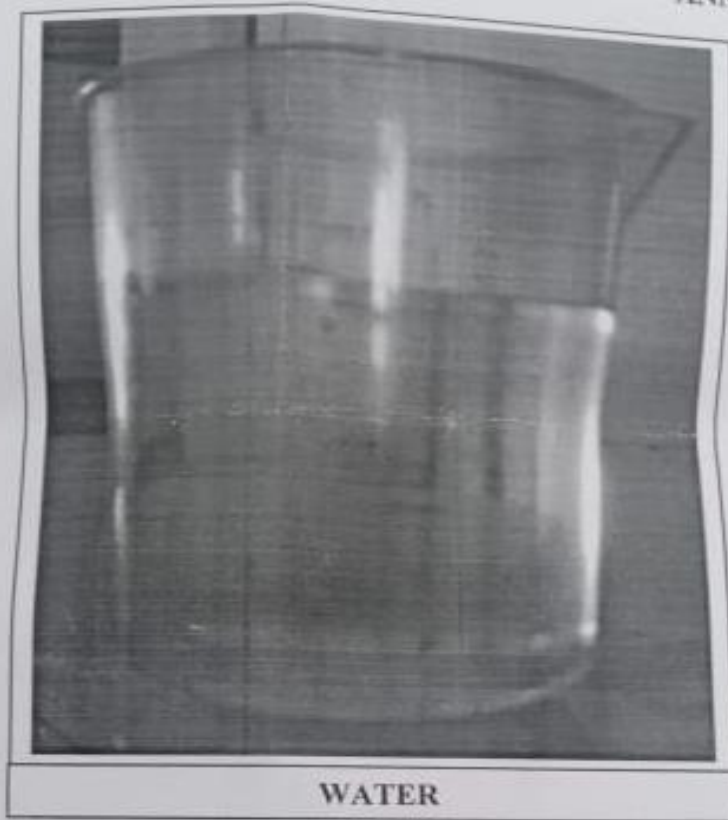
Technical Manager III/IV

Technical Manager I/II

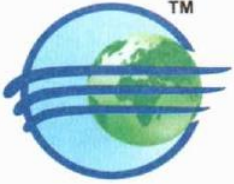


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SAMPLE CODE: EL020915NW08

ANNEXURE-1



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Environment Due-diligence, Monitoring and Analysis Services
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TEST REPORT

| Test Report No. EL170816RD003 | | | | | | Page-1/1 |
|--|---------------------------------------|---|---------|-------------------|--|--------------------------------------|
| Customer | | Principal Post Graduate College for Women Sector-42, Chandigarh | | | | |
| Work Order No. & Date | | Telephonic Order | | | | |
| Type of Sample | | Water | | | | |
| Mode of Collection of Sample | | Sample provided by Customer | | | | |
| Date Of Sampling | | -- | | | | |
| Sampling Location | | -- | | | | |
| Sampling Protocol | | -- | | | | |
| Packing, Marking, Seal & Quantity | | Plastic Bottle & Glass Bottle Marked '3 rd Floor' 2litre + 250ml | | | | |
| Date of Receipt of Sample | | 17/08/2016 | | | | |
| Period of Analysis | | 17/08/2016 to 20/08/2016 | | | | |
| Date of Reporting | | 20/08/2016 | | | | |
| Testing Protocol | | IS 10500 (2012) | | | | |
| Sample Observation | | Clear colourless liquid | | | | |
| S.No | Test Parameters | Units | Results | Requirements | | Test Method |
| | | | | Acceptable Limits | Permissible Limit In Absence of Alternate Source | |
| 1 | Total Dissolved Solids | mg/L | 235 | 500 | 2000 | APHA-22 nd Ed 2012- 2540C |
| 2 | Total Hardness (asCaCO ₃) | mg/l | 152 | 200 | 600 | APHA-22 nd Ed 2012-2340C |
| 3 | Coliforms | MPN/100ml | <2 | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1 |
| 4 | E.Coli/100ml | MPN/100ml | <2 | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1/3.3.4 |

Remarks (if any)

End of Report

[Signature]
 Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.

Authorized Signatory





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TEST REPORT

| Test Report No. EL170816RD002 | | | | | | Page-1/1 |
|-----------------------------------|---------------------------------------|---|-----------|-------------------|--|---|
| Customer | | Principal Post Graduate College for Women Sector-42, Chandigarh | | | | |
| Work Order No. & Date | | Telephonic Order | | | | |
| Type of Sample | | Water | | | | |
| Mode of Collection of Sample | | Sample provided by Customer | | | | |
| Date Of Sampling | | -- | | | | |
| Sampling Location | | -- | | | | |
| Sampling Protocol | | -- | | | | |
| Packing, Marking, Seal & Quantity | | Plastic Bottle & Glass Bottle Marked 'Hostel' 2litre + 250ml | | | | |
| Date of Receipt of Sample | | 17/08/2016 | | | | |
| Period of Analysis | | 17/08/2016 to 20/08/2016 | | | | |
| Date of Reporting | | 20/08/2016 | | | | |
| Testing Protocol | | IS 10500 (2012) | | | | |
| Sample Observation | | Clear colourless liquid | | | | |
| S.No | Test Parameters | Units | Results | Requirements | | Test Method |
| | | | | Acceptable Limits | Permissible Limit In Absence of Alternate Source | |
| 1. | Colour | Hazen units | < 5 | 5 | 15 | APHA-22 nd Ed 2012-2120 B |
| 2. | Odour | -- | Agreeable | Agreeable | Agreeable | IS3025 (P-5)1983 RA 2002 |
| 3 | Taste | -- | Agreeable | Agreeable | Agreeable | IS 3025 (P-7/8)1984 RA 2006 |
| 4 | Turbidity | NTU | <0.1 | 1 | 5 | APHA-22 nd Ed 2012- 2130B |
| 5 | pH | -- | 7.82 | 6.5 to 8.5 | No relaxation | APHA-22 nd Ed 2012 -4500 B |
| 6 | Total Dissolved Solids | mg/L | 228 | 500 | 2000 | APHA-22 nd Ed 2012- 2540C |
| 7 | Total Hardness (asCaCO ₃) | mg/l | 142 | 200 | 600 | APHA-22 nd Ed 2012-2340C |
| 8 | Iron (as Fe) | mg/l | <0.1 | 0.3 | No relaxation | APHA-22 nd Ed 2012-3500 Fe B |
| 9 | Chlorides (as Cl) | mg/l | 10 | 250 | 1000 | APHA-22 nd Ed 2012- 4500 B |
| 10 | Alkalinity as CaCO ₃ | mg/l | 82 | 200 | 600 | APHA-22 nd Ed 2012-2320 B |
| 11 | Sulphate as SO ₄ | mg/l | 17 | 200 | 400 | APHA-22 nd Ed 2012- 4500E |
| 12 | Nitrate as NO ₃ | mg/l | <1 | 45 | No relaxation | APHA-22 nd Ed 2012-4500 B |
| 13 | Calcium as Ca | mg/l | 34 | 75 | 200 | APHA-22 nd Ed 2012-3500B |
| 14 | Magnesium as Mg | mg/l | 14 | 30 | 100 | APHA-22 nd Ed 2012-3500-Mg B |
| 15 | Flouride as F | mg/l | 0.37 | 1.0 | 1.5 | APHA-22 nd Ed 2012-4500 D |
| 16 | Coliforms | MPN/100ml | <2 | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1 |
| 17 | E.Coli/100ml | MPN/100ml | <2 | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1/3.3.4 |

Remarks (if any)

End of Report

Lab Incharge *[Signature]*

For Eco Laboratories & Consultants Pvt. Ltd.

Authorized Signatory



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ISO - 9001 : 2015, 14001 : 2015 OHSAS-18001:2007

CIN : U74140PB2011PTC034739

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TEST REPORT

| | | | |
|------------------------------------|---|---------------|----------|
| EL-16-17/ | Lab No. | EC220317W01/A | Page-1/1 |
| Customer: | Principal Post Graduate College for Women Sector-42, Chandigarh | | |
| Type of Sample: | Water | | |
| Work Order No. & Date: | Telephonic Order | | |
| Mode of Collection of Sample: | Sampling By Laboratory | | |
| Packing, Marking, Seal & Identity: | Plastic Bottle & Sterilized Glass Bottle Marked '01' | | |
| Quantity: | 2litre + 250ml | | |
| Sampling Location: | From Water Cooler | | |
| Date of Sampling: | 22.03.2017 | | |
| Sampling Protocol: | IS: 3025-(P-1)-1987-R-1996 Arndt-1 | | |
| Date of Receipt of Sample: | 22.03.2017 | | |
| Date of Reporting: | 27.03.2017 | | |
| Testing Protocol: | IS: 10500-2012 | | |
| Remarks & Observation: | Colorless liquid. | | |

| S.No | Test Parameters | Units | Results | Requirements | | Test Method |
|------|---------------------------------------|-------------|-----------|-------------------|--------------------------------|------------------------------------|
| | | | | Acceptable Limits | In Absence of Alternate Source | |
| 1. | Colour | Hazen units | < 5 | 5 | 15 | APHA-22nd Ed 2012-2120 B |
| 2. | Odour | -- | Agreeable | Agreeable | Agreeable | IS3025 (P-5)1983 RA 2002 |
| 3. | Turbidity | NTU | <0.1 | 1 | 5 | APHA-22nd Ed 2012- 2130B |
| 4. | pH | -- | 7.78 | 6.5 to 8.5 | No relaxation | APHA-22nd Ed 2012 -4500 B |
| 5. | Total Dissolved Solids | mg/l. | 240 | 500 | 2000 | APHA-22nd Ed 2012- 2540C |
| 6. | Total Hardness (asCaCO ₃) | mg/l | 198 | 200 | 600 | APHA-22nd Ed 2012-2340C |
| 7. | Iron (as Fe) | mg/l | 0.27 | 0.3 | No relaxation | APHA-22nd Ed 2012-3500 Fe B |
| 8. | Chlorides (as Cl) | mg/l | 21 | 250 | 1000 | APHA-22nd Ed 2012- 4500 B |
| 9. | Alkalinity as CaCO ₃ | mg/l | 156 | 200 | 600 | APHA-22nd Ed 2012- 2320 B |
| 10. | Sulphate as SO ₄ | mg/l | 22 | 200 | 400 | APHA-22nd Ed 2012- 4500E |
| 11. | Nitrate as NO ₃ | mg/l | 2 | 45 | No relaxation | APHA-22nd Ed 2012-4500 B |
| 12. | Calcium as Ca | mg/l | 55 | 75 | 200 | APHA-22nd Ed 2012-3500B |
| 13. | Magnesium as Mg | mg/l | 16 | 30 | 100 | APHA-22nd Ed 2012-3500-Mg B |
| 14. | Fluoride as F | mg/l | 0.42 | 1.0 | 1.5 | APHA-22nd Ed 2012-4500 D |
| 15. | Coliforms | MPN/100ml | 4 | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1 |
| 16. | E.Coli/100ml | MPN/100ml | 2 | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1/3.3.4 |

End of Report

[Signature]
Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.

[Signature]
Authorized Signatory





Eco Laboratories & Consultants Pvt. Ltd.

NABL / MOEF / PPCB / HSPGB / BIS approved Laboratory
 ISO - 9001 : 2015, 14001 : 2015 OHSAS-18001:2007
 CIN : U74140PB2011PTC034739



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| | | | |
|------------------------------------|---|---------------|----------|
| EL-16-17/ | Lab No. | EC170717W01/A | Page-1/1 |
| Customer: | Principal Post Graduate College for Women Sector-42, Chandigarh | | |
| Type of Sample: | Water | | |
| Work Order No. & Date: | Telephonic Order | | |
| Mode of Collection of Sample: | Sampling By Laboratory | | |
| Packing, Marking, Seal & Identity: | Plastic Bottle & Sterilized Glass Bottle Marked '01' | | |
| Quantity: | 2litre + 250ml | | |
| Sampling Location: | After Filtration + UV | | |
| Date Of Sampling: | 17.07.2017 | | |
| Sampling Protocol: | IS: 3025-(P-1)-1987-R-1998 Amdt-1 | | |
| Date of Receipt of Sample: | 17.07.2017 | | |
| Date of Reporting: | 22.07.2017 | | |
| Testing Protocol: | IS: 10500-2012 | | |
| Remarks & Observation: | Colorless liquid. | | |

| S.No | Test Parameters | Units | Results | Requirements | | Test Method |
|------|---------------------------------------|-------------|-----------|-------------------|--------------------------------|------------------------------------|
| | | | | Acceptable Limits | In Absence of Alternate Source | |
| 1. | Colour | Hazen units | < 5 | 5 | 15 | APHA-22nd Ed 2012-2120 B |
| 2. | Odour | -- | Agreeable | Agreeable | Agreeable | IS3025 (P-5)1983 RA 2002 |
| 3. | Taste | -- | Agreeable | Agreeable | Agreeable | IS 3025 (P-7/8)1984 RA 2006 |
| 4. | Turbidity | NTU | <0.1 | 1 | 5 | APHA-22nd Ed 2012- 2130B |
| 5. | pH | -- | 7.26 | 6.5 to 8.5 | No relaxation | APHA-22nd Ed 2012 -4500 B |
| 6. | Total Dissolved Solids | mg/L | 238 | 500 | 2000 | APHA-22nd Ed 2012- 2540C |
| 7. | Total Hardness (asCaCO ₃) | mg/l | 190 | 200 | 600 | APHA-22nd Ed 2012-2340C |
| 8. | Iron (as Fe) | mg/l | 0.12 | 0.3 | No relaxation | APHA-22nd Ed 2012-3500 Fe- B |
| 9. | Chlorides (as Cl) | mg/l | 14 | 250 | 1000 | APHA-22nd Ed 2012- 4500 B |
| 10. | Alkalinity as CaCO ₃ | mg/l | 150 | 200 | 600 | APHA-22nd Ed 2012-2320 B |
| 11. | Sulphate as SO ₄ | mg/l | 20 | 200 | 400 | APHA-22nd Ed 2012- 4500E |
| 12. | Nitrate as NO ₃ | mg/l | 1.5 | 45 | No relaxation | APHA-22nd Ed 2012-4500 B |
| 13. | Calcium as Ca | mg/l | 51 | 75 | 200 | APHA-22nd Ed 2012-3500B |
| 14. | Magnesium as Mg | mg/l | 15 | 30 | 100 | APHA-22nd Ed 2012-3500-Mg B |
| 15. | Flouride as F | mg/l | 0.4 | 1.0 | 1.5 | APHA-22nd Ed 2012-4500 D |
| 16. | Coliforms | MPN/100ml | <2* | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1 |
| 17. | E.Col/100ml | MPN/100ml | <2* | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1/3.3.4 |

Remarks (if any) *<2 is minimum detection limit as per IS 1622 method and is equal to absent

End of Report

[Signature]
Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.
[Signature]
Authorized Signatory

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 ISO - 9001 : 2015, 14001 : 2015 OHSAS-18001:2007
 CIN : U74140PB2011PTC034739



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| | | | |
|---|--|--------------------|-----------------|
| EL-16-17/ | Lab No. | EC210818W01 | Page-1/1 |
| Customer: | Principal Post Graduate College for Women Sector-42, Chandigarh | | |
| Type of Sample: | Water | | |
| Work Order No. & Date: | Telephonic Order | | |
| Mode of Collection of Sample: | Sampling By Laboratory | | |
| Packing, Marking, Seal & Identity: | Plastic Bottle & Sterilized Glass Bottle Marked '01' | | |
| Quantity: | 2litre + 250ml | | |
| Sampling Location: | After Cooler | | |
| Date Of Sampling: | 21.08.2018 | | |
| Sampling Protocol: | IS: 3025-(P-1)-1987-R-1998 Amdt-1 | | |
| Date of Receipt of Sample: | 21.08.2018 | | |
| Date of Reporting: | 25.08.2018 | | |
| Testing Protocol: | IS: 10500-2012 | | |
| Remarks & Observation: | Colorless liquid. | | |

| S.No | Test Parameters | Units | Results | Requirements | | Test Method |
|------|---------------------------------------|-------------|-----------|-------------------|--------------------------------|---|
| | | | | Acceptable Limits | In Absence of Alternate Source | |
| 1. | Colour | Hazen units | < 5 | 5 | 15 | APHA-22nd Ed 2012-2120 B |
| 2. | Odour | -- | Agreeable | Agreeable | Agreeable | IS3025 (P-5)1983 RA 2002 |
| 3. | Turbidity | NTU | < 0.1 | 1 | 5 | APHA-22 nd Ed 2012- 2130B |
| 4. | pH | -- | 7.95 | 6.5 to 8.5 | No relaxation | APHA-22 nd Ed 2012-4500 B |
| 5. | Total Dissolved Solids | mg/L | 200 | 500 | 2000 | APHA-22nd Ed 2012- 2540C |
| 6. | Total Hardness (asCaCO ₂) | mg/l | 176 | 200 | 600 | APHA-22 nd Ed 2012-2340C |
| 7. | Iron (as Fe) | mg/l | 0.13 | 0.3 | No relaxation | APHA-22 nd Ed 2012-3500 Fe B |
| 8. | Chlorides (as Cl) | mg/l | 12 | 250 | 1000 | APHA-22 nd Ed 2012- 4500 B |
| 9. | Alkalinity as CaCO ₃ | mg/l | 146 | 200 | 600 | APHA-22nd Ed 2012- 2320 B |
| 10. | Sulphate as SO ₄ | mg/l | 30 | 200 | 400 | APHA-22nd Ed 2012- 4500E |
| 11. | Nitrate as NO ₃ | mg/l | 2.3 | 45 | No relaxation | APHA-22nd Ed 2012-4500 B |
| 12. | Calcium as Ca | mg/l | 47 | 75 | 200 | APHA-22nd Ed 2012-3500B |
| 13. | Magnesium as Mg | mg/l | 15 | 30 | 100 | APHA-22nd Ed 2012-3500-Mg B |
| 14. | Flouride as F | mg/l | 0.51 | 1.0 | 1.5 | APHA-22nd Ed 2012-4500 D |
| 15. | Coliforms | MPN/100ml | 6 | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1 |
| 16. | E.Coli/100ml | MPN/100ml | 3 | Absent | -- | IS: 1622-1981 RA 2003- 3.3.1/3.3.4 |

End of Report

Lab Incharge
 Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.

Authorized Signatory





Eco Laboratories & Consultants Pvt. Ltd.

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory
 ISO - 9001 : 2015, 14001 : 2015 OHSAS-18001:2007
 CIN : U74140PB2011PTC034739



DUPLICATE COPY TEST REPORT

| | | | |
|------------------------------------|--|---------------|----------|
| EL-16-17/ Customer: | Lab No. Principal Post Graduate College for Women Sector-42, Chandigarh | EL110918EW001 | Page-1/1 |
| Type of Sample: | Water | | |
| Work Order No. & Date: | Telephonic Order | | |
| Mode of Collection of Sample: | Sampling By Laboratory | | |
| Packing, Marking, Seal & Identity: | Plastic Bottle & Sterilized Glass Bottle Marked '01' | | |
| Quantity: | 2litre + 250ml | | |
| Sampling Location: | From Water Cooler | | |
| Date Of Sampling: | 11/09/2018 | | |
| Sampling Protocol: | IS: 3025-(P-1)-1987-R-1998 Amdt-1 | | |
| Date of Receipt of Sample: | 11/09/2018 | | |
| Date of Reporting: | 15/09/2018 | | |
| Testing Protocol: | IS: 10500-2012 | | |
| Remarks & Observation: | Colorless liquid. | | |

| S.No | Test Parameters | Units | Results | Requirements | | Test Method |
|------|---------------------------------------|-------------|-----------|-------------------|--------------------------------|---|
| | | | | Acceptable Limits | In Absence of Alternate Source | |
| 1. | Colour | Hazen units | < 5 | 5 | 15 | APHA-23 rd Ed 2017-2120 B |
| 2. | Odour | -- | Agreeable | Agreeable | Agreeable | IS3025 (P-5)1983 RA 2002 |
| 3 | Turbidity | NTU | < 0.1 | 1 | 5 | APHA-23 rd Ed 2017- 2130B |
| 4 | pH | -- | 7.8 | 6.5 to 8.5 | No relaxation | APHA-23 rd Ed 2017-4500 B |
| 5 | Total Dissolved Solids | mg/L | 190 | 500 | 2000 | APHA-23 rd Ed 2017- 2540C |
| 6 | Total Hardness (asCaCO ₃) | mg/l | 165 | 200 | 600 | APHA-23 rd Ed 2017-2340C |
| 7 | Iron (as Fe) | mg/l | 0.08 | 0.3 | No relaxation | APHA-23 rd Ed 2017-3500 Fe B |
| 8 | Chlorides (as Cl) | mg/l | 10 | 250 | 1000 | APHA-23 rd Ed 2017- 4500 B |
| 9 | Alkalinity as CaCO ₃ | mg/l | 136 | 200 | 600 | APHA-23 rd Ed 2017- 2320 B |
| 10 | Sulphate as SO ₄ | mg/l | 25 | 200 | 400 | APHA-23 rd Ed 2017- 4500E |
| 11 | Nitrate as NO ₃ | mg/l | 2.4 | 45 | No relaxation | APHA-23 rd Ed 2017-4500 B |
| 12 | Calcium as Ca | mg/l | 43 | 75 | 200 | APHA-23 rd Ed 2017-3500B |
| 13 | Magnesium as Mg | mg/l | 13 | 30 | 100 | APHA-23 rd Ed 2017-3500-Mg B |
| 14 | Flouride as F | mg/l | 0.42 | 1.0 | 1.5 | APHA-23 rd Ed 2017-4500 D |
| 15 | Coliforms | MPN/100ml | <2* | Absent | -- | IS: 1622-1981 RA 2009 |
| 16 | E.Coli/100ml | MPN/100ml | <2* | Absent | -- | IS: 1622-1981 RA 2009 |

Remarks (if any) *<2 is minimum detection limit as per IS 1622 method and is equal to absent

End of Report

[Signature]
Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.
[Signature]
Authorized Signatory



Water Audit 2019



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



[A Govt. Approved, ISO 9001:2015, 14001 & 45001: 2018 certified & Approved by MOEF, PPCB]

TEST REPORT

| | | | |
|--------------------|--|------------------------------------|--|
| ULR No. | NA | Test Report No. | EL130919GW001 |
| Type of Sample | Drinking Water | Date of Reporting | 17/09/2019 |
| Customer | Post Graduate Government College for Girls Sec-42, Chandigarh | Work Order No. & Date | NA |
| Sampling Protocol | NA | Customer reference No. (If any) | Telephonic Order |
| Date of Sampling | NA | Mode of Collection of Sample | Sample Provided by Customer |
| Sampling Location | NA | Date of Receipt of Sample | 13/09/2019 |
| Testing Protocol | IS 10500:2012 & APHA | Packing, Markings, Seal & Quantity | 2 Plastic Bottles Marked '3 rd Floor' 1 Litre each |
| Sample Description | Clear, colorless liquid | Period of Analysis | 13/09/2019 to 17/09/2019 |

TEST RESULTS

I - Chemical Testing

1. Drinking Water

| S. No. | Test Parameter | Units | Results | Acceptable limit | Permissible limit ¹ | Test Method |
|--------|-------------------------------------|-------|---------|------------------|--------------------------------|--------------------------------------|
| 1. | Total Hardness as CaCO ₃ | mg/l | 156 | 200 | 600 | APHA-23 rd Ed 2017-2340C |
| 2. | Total Dissolved Solids | mg/l | 237 | 500 | 2000 | APHA-23 rd Ed 2017- 2540C |

II - Biological Testing

1. Drinking Water

| S. No. | Test Parameter | Units | Results | Acceptable limit | Permissible limit ¹ | Test Method |
|--------|-----------------|-----------|---------|------------------|--------------------------------|-----------------------|
| 1. | Total coliforms | MPN/100ml | <2* | Absent | -- | IS: 1622:1981 RA-2009 |
| 2. | E. coli | MPN/100ml | <2* | Absent | -- | IS: 1622:1981 RA-2009 |

Remarks : Sample complies with respect to above test parameters only in accordance of IS 10500:2012

OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, NA: Not Applicable

Symbols : * < 2 is minimum detection limit as per IS 1622 method which is equal to absent.

¹Permissible limit in absence of alternate source

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

End of Report

Tanj
Checked by QA

Simranjit Kaur
Simranjit Kaur
Authorized Signatory-Biological

Dr. Sandeep Garg
Dr. Sandeep Garg
Authorized Signatory-Chemical

Format No. F/7.8.2-W-01- 02.09.19 Rev 03

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[A Govt. Approved, ISO 9001:2015, 14001 & 45001: 2018 certified & Approved by MOEF, PPCB]

TEST REPORT

| | | | |
|--------------------|--|------------------------------------|---|
| ULR No. | NA | Test Report No. | EL190819GW001 |
| Type of Sample | Water | Date of Reporting | 21/08/2019 |
| Customer | Post Graduate Government College for Girls Sec-42, Chandigarh | Work Order No. & Date | NA |
| | | Customer reference No. (If any) | Telephonic Order |
| Sampling Protocol | NA | Mode of Collection of Sample | Sample Provided by Customer |
| Date of Sampling | NA | Date of Receipt of Sample | 19/08/2019 |
| Sampling Location | NA | Packing, Markings, Seal & Quantity | Plastic Bottle Marked 'Academic Block' 1 Litre |
| Testing Protocol | IS 10500:2012 & APHA | Period of Analysis | 19/08/2019 to 21/08/2019 |
| Sample Description | Clear, colorless liquid. | | |

TEST RESULTS

I-Chemical Testing

1. Water

| S. No. | Test Parameter | Units | Results | Acceptable limit | Permissible limit ¹ | Test Method |
|--------|---------------------------------------|--------------|--------------|------------------|--------------------------------|---|
| 1. | Total Alkalinity as CaCO ₃ | mg/l | 92 | 200 | 600 | APHA-23 rd Ed 2017-.2320 B |
| 2. | Colour | Colour Units | BDL(DL 5) | 5 | 15 | APHA-23 rd Ed 2017-2120 B |
| 3. | Total Hardness asCaCO ₃ | mg/l | 150 | 200 | 600 | APHA-23 rd Ed 2017-2340C |
| 4. | Odour | - | Agreeable | Agreeable | Agreeable | IS 3025 (Part-5): 1983 RA 2017 |
| 5. | Total Dissolved Solids | mg/l | 238 | 500 | 2000 | APHA-23 rd Ed 2017- 2540C |
| 6. | Taste | - | Agreeable | | | IS 3025 (Part-8): 1984 RA 2017 |
| 7. | Turbidity | NTU | BDL(DL 0.1) | 1 | 5 | APHA-23 rd Ed 2017- 2130B |
| 8. | Chloride as Cl | mg/l | 14 | 250 | 1000 | APHA-23 rd Ed 2017- 4500 B |
| 9. | Fluoride as F | mg/l | 0.35 | 1.0 | 1.5 | APHA-23 rd Ed 2017-4500 D |
| 10. | Nitrate as NO ₃ | mg/l | BDL(DL 1) | 45 | No Relaxation | APHA-23 rd Ed 2017-4500 B |
| 11. | pH | - | 7.77 | 6.5 - 8.5 | No Relaxation | APHA-23 rd Ed 2017-4500B |
| 12. | Sulphate as SO ₄ | mg/l | 19 | 200 | 400 | APHA-23 rd Ed 2017- 4500E |
| 13. | Calcium as Ca | mg/l | 34 | 75 | 200 | APHA-23 rd Ed 2017-3500B |
| 14. | Iron as Fe | mg/l | BDL(DL 0.05) | 0.3 | No relaxation | APHA-23 rd Ed 2017-33500Fe-B |
| 15. | Magnesium as Mg | mg/l | 16 | 30 | 100 | APHA-23 rd Ed 2017-3500-Mg B |

Amandeep Kaur
21.8.19
Checked by
Neha Nehal

Simranjit Kaur
Simranjit Kaur
Authorized Signatory-Biological

Dr. Rai Singh
Dr. Rai Singh
Authorized Signatory-Chemical

Format No. F/7.8.2-W-01- 15.11.18 Rev 02

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| | | | |
|----------------|-------|-------------------|---------------|
| ULR No. | NA | Test Report No. | EL190819GW001 |
| Type of Sample | Water | Date of Reporting | 21/08/2019 |

II - Biological Testing

1. Water

| S. No. | Test Parameter | Units | Results | Acceptable limit | Permissible limit ¹ | Test Method |
|--------|-----------------|-----------|---------|------------------|--------------------------------|-----------------------|
| 16 | Total coliforms | MPN/100ml | <2* | Absent | -- | IS: 1622:1981 RA-2009 |
| 17 | E. coli | MPN/100ml | <2* | Absent | -- | IS: 1622:1981 RA-2009 |

Remarks : Sample complies with respect to above test parameters only in accordance of IS 10500:2012

OTHER INFORMATION

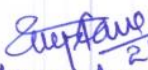
Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level; NA: Not Applicable

Symbols : * < 2 is minimum detection limit as per IS 1622 method which is equal to absent.


¹Permissible limit in absence of alternate source

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

****End of Report****


 21.8.19
 Amandeep Kaur, Neha Rehal
 Checked by


 Simranjit Kaur
 Authorized Signatory-Biological


 Dr. Rai Singh
 Authorized Signatory-Chemical

[A Govt. Approved, ISO 9001:2015, 14001 & 45001: 2018 certified & Approved by MOEF, PPCB]

TEST REPORT

| | | | |
|---------------------------|--|---|--|
| ULR No. | NA | Test Report No. | EL190819GW002 |
| Type of Sample | Water | Date of Reporting | 21/08/2019 |
| Customer | Post Graduate Government College for Girls Sec-42, Chandigarh | Work Order No. & Date | NA |
| | | Customer reference No. (If any) | Telephonic Order |
| Sampling Protocol | NA | Mode of Collection of Sample | Sample Provided by Customer |
| Date of Sampling | NA | Date of Receipt of Sample | 19/08/2019 |
| Sampling Location | NA | Packing, Markings, Seal & Quantity | Plastic Bottle Marked 'Hostel' 1 Litre |
| Testing Protocol | IS 10500:2012 & APHA | Period of Analysis | 19/08/2019 to 21/08/2019 |
| Sample Description | Clear, colorless liquid. | | |

TEST RESULTS

I-Chemical Testing

1. Water

| S. No. | Test Parameter | Units | Results | Acceptable limit | Permissible limit ¹ | Test Method |
|--------|---------------------------------------|--------------|--------------|------------------|--------------------------------|---|
| 1. | Total Alkalinity as CaCO ₃ | mg/l | 84 | 200 | 600 | APHA-23 rd Ed 2017-.2320 B |
| 2. | Colour | Colour Units | BDL(DL 5) | 5 | 15 | APHA-23 rd Ed 2017-2120 B |
| 3. | Total Hardness as CaCO ₃ | mg/l | 146 | 200 | 600 | APHA-23 rd Ed 2017-2340C |
| 4. | Odour | - | Agreeable | Agreeable | Agreeable | IS 3025 (Part-5): 1983 RA 2017 |
| 5. | Total Dissolved Solids | mg/l | 230 | 500 | 2000 | APHA-23 rd Ed 2017- 2540C |
| 6. | Taste | - | Agreeable | | | IS 3025 (Part-8): 1984 RA 2017 |
| 7. | Turbidity | NTU | BDL(DL 0.1) | 1 | 5 | APHA-23 rd Ed 2017- 2130B |
| 8. | Chloride as Cl | mg/l | 11 | 250 | 1000 | APHA-23 rd Ed 2017- 4500 B |
| 9. | Fluoride as F | mg/l | 0.40 | 1.0 | 1.5 | APHA-23 rd Ed 2017-4500 D |
| 10. | Nitrate as NO ₃ | mg/l | BDL(DL 1) | 45 | No Relaxation | APHA-23 rd Ed 2017-4500 B |
| 11. | pH | - | 7.85 | 6.5 - 8.5 | No Relaxation | APHA-23 rd Ed 2017-4500B |
| 12. | Sulphate as SO ₄ | mg/l | 18 | 200 | 400 | APHA-23 rd Ed 2017- 4500E |
| 13. | Calcium as Ca | mg/l | 34 | 75 | 200 | APHA-23 rd Ed 2017-3500B |
| 14. | Iron as Fe | mg/l | BDL(DL 0.05) | 0.3 | No relaxation | APHA-23 rd Ed 2017-33500Fe-B |
| 15. | Magnesium as Mg | mg/l | 15 | 30 | 100 | APHA-23 rd Ed 2017-3500-Mg B |

Checked by
Amandeep Kaur, Nehakhehal

Simranjit Kaur
Authorized Signatory-Biological

Dr. Rai Singh
Authorized Signatory-Chemical

| | | | |
|-----------------------|-------|--------------------------|---------------|
| ULR No. | NA | Test Report No. | EL190819GW002 |
| Type of Sample | Water | Date of Reporting | 21/08/2019 |

II - Biological Testing

1. Dialysis Water

| S. No. | Test Parameter | Units | Results | Acceptable limit | Permissible limit ¹ | Test Method |
|--------|-----------------|-----------|---------|------------------|--------------------------------|-----------------------|
| 16 | Total coliforms | MPN/100ml | <2* | Absent | -- | IS: 1622:1981 RA-2009 |
| 17 | E. coli | MPN/100ml | <2* | Absent | -- | IS: 1622:1981 RA-2009 |

Remarks : Sample complies with respect to above test parameters only in accordance of IS 10500:2012

OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level; NA: Not Applicable

Symbols : * < 2 is minimum detection limit as per IS 1622 method which is equal to absent.
¹Permissible limit in absence of alternate source

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

****End of Report****

Checked by
 Amandeep Kaur, Neha Khetal
 21-8-19

Simranjit Kaur
 Authorized Signatory-Biological

Dr. Rai Singh
 Authorized Signatory-Chemical



TEST REPORT



TC-7477

| | | | |
|--|---|--|--------------------------------------|
| ULR No. : TC74772100007183F | | Test Report No. : EL221121NW002 | |
| Type of Sample : Water (Drinking Water) | | Date of Reporting : 29/11/2021 | |
| Customer | Post Graduate Government College for Girls Sector-42, Chandigarh | Work Order No. & Date | EL/PGGCG/TEL/2408 Dt.: 20/11/2021 |
| | | Customer reference No. (If any) | NA |
| Sampling Protocol | NA | Mode of Collection of Sample | Sample provided by Customer |
| Date of Sampling | - | Date of Receipt of Sample | 22/11/2021 |
| Sampling Location | NA | Testing Location | Permanent Facility |
| Testing Protocol | IS 10500:2012 (IInd Revision) | Period of Analysis | 22/11/2021 To 29/11/2021 |
| Sample Description | Clear colourless liquid. | | |
| Packing, Markings, Seal & Qty. | 2 litre Plastic Bottle Marked 'Post Graduate Govt.College for Girls,Sec-42, Chandigarh' | | |

RESULTS

I -Chemical Testing

1. Water (Drinking Water)

| S.No. | Test Parameter | Unit | Result | Acceptable limit | Permissible limit in absence of alternate source | Test Method |
|-------|----------------------------|--------------|------------|------------------|--|---|
| 1 | Colour | Colour Units | BDL(DL5) | 5 | 15 | APHA-23rd Ed-2120B Visual Comparison (Pt Cobalt) Method |
| 2 | Odour | - | Agreeable | Agreeable | Agreeable | IS: 3025 (Part-5) |
| 3 | pH @ 25°C | - | 7.72 | 6.5-8.5 | No relaxation | IS:3025 (Part-11) |
| 4 | Taste | - | Agreeable | Agreeable | Agreeable | IS: 3025 (Part-8) |
| 5 | Turbidity | NTU | BDL(DL0.1) | 1 | 5 | IS: 3025 (Part-10) |
| 6 | Total Dissolved Solids | mg/l | 148 | 500 | 2000 | IS: 3025 (Part-16) |
| 7 | Calcium as Ca | mg/l | 37 | 75 | 200 | IS :3025 (Part-40) |
| 8 | Chloride as Cl | mg/l | 5 | 250 | 1000 | IS:3025 (Part-32) |
| 9 | Fluoride as F | mg/l | 0.16 | 1.0 | 1.5 | IS:3025 (Part-60) |
| 10 | Iron as Fe. | mg/l | BDL(DL0.1) | 1.0 | No relaxation | APHA-23rd Ed -3500Fe-B Phenanthroline Method |
| 11 | Magnesium as Mg | mg/l | 9 | 30 | 100 | IS: 3025 (Part-46) |
| 12 | Nitrate as NO3 | mg/l | 3.2 | 45 | No relaxation | APHA-23rd Ed-4500 B UV Screening Method |
| 13 | Sulphate as SO4. | mg/l | 40 | 200 | 400 | IS:3025 (Part-24) Cl 4.0- Turbidity Method |
| 14 | Total alkalinity as CaCO3. | mg/l | 120 | 200 | 600 | IS: 3025 (Part-23) |
| 15 | Total hardness as CaCO3 | mg/l | 130 | 200 | 600 | IS:3025(P-21) |

[Signature]
Checked by QA

[Signature]
Simranjit Kaur
Authorized Signatory-Biological

[Signature]
Tanu Sharma
Authorized Signatory-Chemical



| | |
|---|---------------------------------|
| ULR No. : TC747721000007183F | Test Report No. : EL221121NW002 |
| Type of Sample : Water (Drinking Water) | Date of Reporting : 29/11/2021 |

II -Biological Testing

1. Water (Drinking Water)

| S.No. | Test Parameter | Unit | Result | Acceptable limit | Permissible limit in absence of alternate source | Test Method |
|-------|----------------|-----------|---------|------------------|--|-------------|
| 1 | Total coliform | CFU/100ml | Absent* | Absent | - | IS:15185 |
| 2 | E.coli. | CFU/100ml | Absent* | Absent | - | IS:15185 |

Remarks : *The result might be affected due to collection of sample in plastic bottle

OTHER INFORMATION


Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

End of Report


Checked by QA


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Tanu Sharma
Authorized Signatory-Chemical

TEST REPORT



| | | | |
|---|---|---------------------------------|--------------------------------------|
| ULR No. : TC747721000007182F | | Test Report No. : EL221121NW001 | |
| Type of Sample : Water (Drinking Water) | | Date of Reporting : 29/11/2021 | |
| Customer | Post Graduate Government College for Girls Sector-42, Chandigarh | Work Order No. & Date | EL/PGGCG/TEL/2408 Dt.: 20/11/2021 |
| | | Customer reference No. (If any) | NA |
| Sampling Protocol | NA | Mode of Collection of Sample | Sample provided by Customer |
| Date of Sampling | - | Date of Receipt of Sample | 22/11/2021 |
| Sampling Location | NA | Testing Location | Permanent Facility |
| Testing Protocol | IS 10500:2012 (IInd Revision) | Period of Analysis | 22/11/2021 To 29/11/2021 |
| Sample Description | Clear colourless liquid. | | |
| Packing, Markings, Seal & Qty. | 2 litre Plastic Bottle Marked 'Hostel,Sec-42' | | |

RESULTS


I-Chemical Testing

1. Water (Drinking Water)

| S.No. | Test Parameter | Unit | Result | Acceptable limit | Permissible limit in absence of alternate source | Test Method |
|-------|----------------------------|--------------|------------|------------------|--|---|
| 1 | Colour | Colour Units | BDL(DL5) | 5 | 15 | APHA-23rd Ed-2120B Visual Comparison (Pt Cobalt) Method |
| 2 | Odour | - | Agreeable | Agreeable | Agreeable | IS: 3025 (Part-5) |
| 3 | pH @'25°C | - | 7.68 | 6.5-8.5 | No relaxation | IS:3025 (Part-11) |
| 4 | Taste | - | Agreeable | Agreeable | Agreeable | IS: 3025 (Part-8) |
| 5 | Turbidity | NTU | BDL(DL0.1) | 1 | 5 | IS: 3025 (Part-10) |
| 6 | Total Dissolved Solids | mg/l | 152 | 500 | 2000 | IS: 3025 (Part-16) |
| 7 | Calcium as Ca | mg/l | 36 | 75 | 200 | IS :3025 (Part-40) |
| 8 | Chloride as Cl | mg/l | 6.0 | 250 | 1000 | IS:3025 (Part-32) |
| 9 | Fluoride as F | mg/l | 0.18 | 1.0 | 1.5 | IS:3025 (Part-60) |
| 10 | Iron as Fe. | mg/l | BDL(DL0.1) | 1.0 | No relaxation | APHA-23rd Ed -3500Fe-B Phenanthroline Method |
| 11 | Magnesium as Mg | mg/l | 12 | 30 | 100 | IS: 3025 (Part-46) |
| 12 | Nitrate as NO3 | mg/l | 3.1 | 45 | No relaxation | APHA-23rd Ed-4500 B UV Screening Method |
| 13 | Sulphate as SO4. | mg/l | 35 | 200 | 400 | IS:3025 (Part-24) Cl 4.0- Turbidity Method |
| 14 | Total alkalinity as CaCO3. | mg/l | 136 | 200 | 600 | IS: 3025 (Part-23) |
| 15 | Total hardness as CaCO3 . | mg/l | 140 | 200 | 600 | IS:3025(P-21) |


Checked by QA


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Tanu Sharma
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ULR No. : TC74772100007182F
Type of Sample : Water (Drinking Water)

Test Report No. : EL221121NW001
Date of Reporting : 29/11/2021

II -Biological Testing

1. Water (Drinking Water)

| S.No. | Test Parameter | Unit | Result | Acceptable limit | Permissible limit in absence of alternate source | Test Method |
|-------|----------------|-----------|---------|------------------|--|-------------|
| 1 | Total coliform | CFU/100ml | Absent* | Absent | - | IS:15185 |
| 2 | E.coli. | CFU/100ml | Absent* | Absent | - | IS:15185 |

Remarks : *The result might be affected due to collection of sample in plastic bottle

OTHER INFORMATION


Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

End of Report


Checked by QA


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