

NAAC Criterion 7: Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.5: Water conservation facilities available in the Institution





PES Institute of Medical Sciences & Research

Kuppam- 517 425, Chittoor Dist., Andhra Pradesh

Tel: 08570 - 277999, 277799, 277666

Email: principal@pesimsr.pes.edu Web: www.pesimsr.pes.edu

Installation or maintenance reports of Water conservation facilities available in the Institution





TC-13104

Essen & Co.

Estd. 1944



Doc.No.EC/QCF/17

ANALYTICAL CHEMISTS, ASSAYERS INSPECTION AGENCY , SURVEYERS AND SAMPLERS**No.92, 7th Main Road, 3rd Phase, Peenya Industrial Area, Bengaluru – 560058****Phone No. 080- 29512231/ Email: essenblr@essenco.in**

TEST REPORT

ULR-TC1310424000000290(F)

ISSUED TO: Party Name : The Pes Institute Of Medical Science & Research Address : Nelagampalli. Kuppam. Chittoor District – 425. A.P.	Register No	: 1728
	Date of Receipt	: 05.06.2024
	Test Started date	: 06.06.2024
	Test Completion date	: 15.06.2024
	Report No	: AZ/1072
	Date of Issue	: 18.06.2024

Sample submitted by party

Sample Description :- Raw water
tested As Per

N o	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATESOURCE)	Results	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
4	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
5	pH at 25°C	6.5 TO 8.5	No Relaxation	7.14	IS:3025 (Part - 11)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	778.0	IS:3025 (Part -16)
7	Total alkalinity as CaCo3, mg/l,max	200	600	384.0	IS:3025 (Part -23)
8	Chloride as Cl mg/l,max	250	1000	149.0	IS:3025 (Part - 32)
9	Total Hardness as CaCO3, mg/l,max	200	600	414.0	IS:3025 (Part -21)
10	Calcium as Ca mg/l,max	75	200	130.6	IS:3025 (Part - 40)
11	Magnesium as Mg mg/l,max	30	100	21.3	IS:3025 (Part- 46)
12	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
13	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
14	Nitrate as NO ₃ mg/l,max	45	No Relaxation	11.5	APHA 4500 -NO ₃ -B
15	Aluminium as Al mg/l,max	0.03	0.2	<0.03	IS:3025 (Part- 55)
16	Ammonia (as Total Ammonia -N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
17	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
18	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
19	Fluoride as F mg/l,max	1.0	1.5	0.74	APHA 4500-F
20	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	IS:3025 (Part- 45)
21	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part- 43)
22	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
23	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
24	Sulphate as SO ₄ mg/l,max	200	400	55.5	IS:3025 (Part -24)
25	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
26	Lead as Pb mg/l,max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
27	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
28	Cadmium as Cd mg/l,max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
29	Cyanide as CN mg/l,max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
30	Zinc as Zn mg/l,max	5	15	<0.1	IS:3025 (Part -49)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

Remarks: The tested parameters conforms to IS 10500 specification.

Deeba
Chemist

Verified by

for ESSEN & CO,
Authorised Signatory

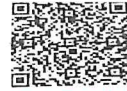
Note: The test result in this Report pertains only to the sample received by us. The test has been performed to the best of our skill and knowledge and our responsibility is limited to exercise of due care. This report reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This report shall not be reproduced in part or full and cannot be used as evidence in the court of law without our prior permission in writing. The sample will be retained for a period of max one month on customer request.



TC-13104

Essen & Co.

Estd. 1944



Doc.No.EC/QCF/17

ANALYTICAL CHEMISTS, ASSAYERS INSPECTION AGENCY, SURVEYERS AND SAMPLERSNo.92, 7th Main Road, 3rd Phase, Peenya Industrial Area, Bengaluru – 560058

Phone No. 080- 29512231/ Email: essenblr@essenco.in

TEST REPORT

ULR-TC1310424000000291(F)

ISSUED TO: Party Name : The Pes Institute Of Medical Science & Research Address : Nelagampalli. Kuppam. Chittoor District – 425. A.P.	Register No : 1729
	Date of Receipt : 05.06.2024
	Test Started date : 06.06.2024
	Test Completion date : 15.06.2024
	Report No : AZ/1073
	Date of Issue : 18.06.2024

Sample submitted by party

Sample Description :- R.O. 2 Water
tested As Per:-

No	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATESOURCE)	Results	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3.	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
4.	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
5.	pH at 25°C	6.5 TO 8.5	No Relaxation	7.12	IS:3025 (Part - 11)
6.	Total Dissolved Solids at 180°C mg/l,max	500	2000	10.0	IS:3025 (Part -16)
7.	Total alkalinity as CaCo3, mg/l,max	200	600	1.6	IS:3025 (Part -23)
8.	Chloride as Cl mg/l,max	250	1000	5.7	IS:3025 (Part - 32)
9.	Total Hardness as CaCO3, mg/l,max	200	600	2.4	IS:3025 (Part -21)
10	Calcium as Ca mg/l,max	75	200	0.80	IS:3025 (Part - 40)
11	Magnesium as Mg mg/l,max	30	100	0.09	IS:3025 (Part- 46)
12	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
13	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
14	Nitrate as NO ₃ mg/l,max	45	No Relaxation	0.60	APHA 4500 -NO ₃ -B
15	Aluminium as Al mg/l,max	0.03	0.2	<0.03	IS:3025 (Part- 55)
16	Ammonia (as Total Ammonia -N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
17	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
18	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
19	Fluoride as F mg/l,max	1.0	1.5	0.11	APHA 4500-F
20	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	IS:3025 (Part- 45)
21	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part- 43)
22	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
23	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
24	Sulphate as SO ₄ mg/l,max	200	400	3.6	IS:3025 (Part -24)
25	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
26	Lead as Pb mg/l,max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
27	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
28	Cadmium as Cd mg/l,max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
29	Cyanide as CN mg/l,max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
30	Zinc as Zn mg/l,max	5	15	<0.1	IS:3025 (Part -49)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

Remarks: the tested parameters conforms to IS 10500 specification.

Beeta
Chemist

[Signature]
Verified by



for ESSEN & CO,
[Signature]
Authorised Signatory

Note: The test result in this Report pertains only to the sample received by us. The test has been performed to the best of our skill and knowledge and our responsibility is limited to exercise of due care. This report reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This report shall not be reproduced in part or full and cannot be used as evidence in the court of law without our prior permission in writing. The sample will be retained for a period of max one month on customer request.

Essen & Co.,

ESTD. 1944

(ISO 9001-2015 CERTIFIED & NABL ACCREDITED LABORATORY)
ANALYTICAL CHEMISTS & ASSAYERS INSPECTION AGENCY,
SURVEYORS & SAMPLERS.

No. 92, 7th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058
Phone: 080-28392230/28391567 E-mail: essenblr@essenco.in

TEST REPORT

ISSUED TO: Party Name : The Pes Institute Of Medical Science & Research Address : Nelagampalli. Kuppam. Chittoor District – 425. A.P.	Register No	: 1730
	Date of Receipt	: 05.06.2024
	Test Started date	: 06.06.2024
	Test Completion date	: 15.06.2024
	Report No	: AZ/1074
	Date of Issue	: 18.06.2024

Sample submitted by party

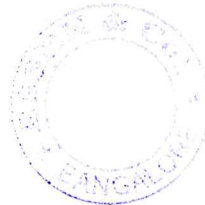
Sample Description :- R.O. Water

Tested As Per:- European Pharmacopeia

SL. NO	PARAMETERS	Requirement	RESULT
1	Endotoxin Level, EU/ml	<0.25 EU/ml	<0.25

Seeba
Chemist

Sho
Verified by



for Essen & Co.,

Harish
Authorised Signatory

Essen & Co.,

ESTD. 1944

(ISO 9001-2015 CERTIFIED & NABL ACCREDITED LABORATORY)
ANALYTICAL CHEMISTS & ASSAYERS INSPECTION AGENCY,
SURVEYORS & SAMPLERS.

No. 92, 7th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058
Phone: 080-28392230/28391567 E-mail: essenblr@essen.co.in

TEST REPORT

Certificate No: Ay/5834
Regd.No: 6061

Date of Issue : 30.03.2024
Date of Receipt :20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria in 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

:

for Essen & Co.,


Chemist


Verified by


Authorised Signatory



Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

Essen & Co.,

ESTD. 1944

(ISO 9001-2015 CERTIFIED & NABL ACCREDITED LABORATORY)
ANALYTICAL CHEMISTS & ASSAYERS INSPECTION AGENCY,
SURVEYORS & SAMPLERS.

No. 92, 7th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058
Phone: 080-28392230/28391567 E-mail: essenblr@essenco.in

TEST REPORT

Certificate No: Ay/5836
Regd.No: 6063

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria in 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

for Essen & Co.,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5851
Regd.No: 6078

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District - 425. A.P.

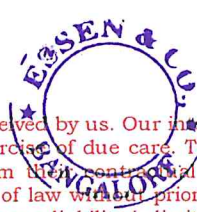
Sample Description :- Drinking Water
sample no/Marks.....:- Boy's Hostel (RO Water)
Tested As Per:-

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	7.11	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	1166.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 -Al-B
8	Ammonia (as Total Ammonia -N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	62.5	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	156.9	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.63	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l,max	30	100	62.2	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	16.3	APHA 4500 -NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part- 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	68.5	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ , mg/l,max	200	600	312.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ , mg/l, max	200	600	412.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part-27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced in part or full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5833
Regd.No: 6060

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District - 425. A.P.

Sample Description :- Drinking Water
sample no/Marks.....:- /Mother tank water
Tested As Per:- -

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATESOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	6.68	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	62.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 -Al-B
8	Ammonia (as Total Ammonia -N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	2.4	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	8.4	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.29	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l ,max	30	100	1.94	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	0.60	APHA 4500 -NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part- 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	2.5	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ mg/l,max	200	600	18.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ mg/l, max	200	600	4.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,

Chemist

Verified by

Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5835
Regd.No: 6062

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

Sample Description :- Drinking Water
sample no/Marks.....:- Sujala RO Water
Tested As Per:- -

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	6.69	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	54.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 –Al-B
8	Ammonia (as Total Ammonia –N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	2.8	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	8.9	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.09	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l,max	30	100	0.48	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	0.65	APHA 4500 –NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part - 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	1.17	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ , mg/l,max	200	600	12.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ , mg/l, max	200	600	9.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention is limited to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample received by us and does not release vendors or buyers from their legal obligations. This Certificate shall not be reproduced, in part or full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5837
Regd.No: 6064

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

Sample Description :- Drinking Water
sample no/Marks.....:- ICU Tank Water
Tested As Per:-

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATESOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	6.58	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	58.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 -Al-B
8	Ammonia (as Total Ammonia -N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	2.0	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	8.4	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.61	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part - 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l ,max	30	100	1.7	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	0.72	APHA 4500 -NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part- 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	2.0	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ , mg/l,max	200	600	16.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ , mg/l, max	200	600	12.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced, in part or full and cannot be used as evidence in court of law without our prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

Essen & Co.,

ESTD. 1944

(ISO 9001-2015 CERTIFIED & NABL ACCREDITED LABORATORY)
ANALYTICAL CHEMISTS & ASSAYERS INSPECTION AGENCY,
SURVEYORS & SAMPLERS.

No. 92, 7th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058
Phone: 080-28392230/28391567 E-mail: essenblr@essenco.in

TEST REPORT

Certificate No: Ay/5838
Regd.No: 6065

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District - 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria i n 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

for Essen & Co.,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5839
Regd.No: 6066

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.


Sample Description :- Drinking Water
sample no/Marks.....:- Softner Tank Water
Tested As Per:- -

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	6.66	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	46.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 –Al-B
8	Ammonia (as Total Ammonia –N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	2.80	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	7.9	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.53	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l ,max	30	100	1.45	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	0.66	APHA 4500 –NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part- 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	1.7	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ , mg/l,max	200	600	15.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ , mg/l, max	200	600	13.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,


Chemist


Verified by


Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention is limited to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

Essen & Co.,

ESTD. 1944

(ISO 9001-2015 CERTIFIED & NABL ACCREDITED LABORATORY)
ANALYTICAL CHEMISTS & ASSAYERS INSPECTION AGENCY,
SURVEYORS & SAMPLERS.

No. 92, 7th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058
Phone: 080-28392230/28391567 E-mail: essenblr@essenco.in

TEST REPORT

Certificate No: Ay/5840
Regd.No: 6067

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District - 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria in 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

:

for Essen & Co.,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced in part or full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5841
Regd.No: 6068

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District - 425. A.P.

Sample Description :- Drinking Water
sample no/Marks.....:- Casualty Sump Water
Tested As Per:- -

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATESOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	6.92	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	1168.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 -Al-B
8	Ammonia (as Total Ammonia -N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	73.7	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	146.9	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.59	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l,max	30	100	63.6	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	15.6	APHA 4500 -NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part - 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	75.7	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ , mg/l,max	200	600	292.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ , mg/l, max	200	600	444.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,


Chemist


Verified by




Authorised Signatory

Note: This result in this certificate pertains only to the sample received by us. Our intention is to provide the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without our permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

Essen & Co.,

ESTD. 1944

(ISO 9001-2015 CERTIFIED & NABL ACCREDITED LABORATORY)
ANALYTICAL CHEMISTS & ASSAYERS INSPECTION AGENCY,
SURVEYORS & SAMPLERS.

No. 92, 7th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058
Phone: 080-28392230/28391567 E-mail: essenblr@essenco.in

TEST REPORT

Certificate No: Ay/5842
Regd.No: 6069

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District - 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria i n 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

:

for Essen & Co.,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5843
Regd.No: 6070

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

Sample Description :- Drinking Water
sample no/Marks.....:- College Sump
Tested As Per:- -

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	7.10	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	1124.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 –Al-B
8	Ammonia (as Total Ammonia –N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	66.5	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	162.9	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.61	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l,max	30	100	52.9	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	15.5	APHA 4500 –NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part - 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	70.8	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ , mg/l,max	200	600	286.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ , mg/l, max	200	600	284.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part or full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5844
Regd.No: 6071

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria i n 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

for Essen & Co.,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5845
Regd.No: 6072

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

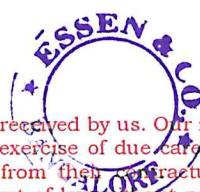
Sample Description :- Drinking Water
sample no/Marks.....:- Women's Hostel Sump
Tested As Per:- -

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	7.12	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	1036.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 –Al-B
8	Ammonia (as Total Ammonia –N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	44.8	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	173.9	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.74	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l,max	30	100	68.5	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	16.0	APHA 4500 –NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part - 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	73.4	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ , mg/l,max	200	600	296.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ , mg/l, max	200	600	394.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part -37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5846
Regd.No: 6073

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria in 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

:

for Essen & Co.,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part or full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5847
Regd.No: 6074

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District - 425. A.P.

Sample Description :- Drinking Water
sample no/Marks.....:- Nursing College Canteen
Tested As Per:-

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATESOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	7.02	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	1218.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 -Al-B
8	Ammonia (as Total Ammonia -N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	68.9	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	165.9	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.59	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l ,max	30	100	59.3	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	16.1	APHA 4500 -NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part- 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	67.2	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ , mg/l,max	200	600	304.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ , mg/l, max	200	600	416.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,

+Chemist

Verified by

Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

Essen & Co.,

ESTD. 1944

(ISO 9001-2015 CERTIFIED & NABL ACCREDITED LABORATORY)
ANALYTICAL CHEMISTS & ASSAYERS INSPECTION AGENCY,
SURVEYORS & SAMPLERS.

No. 92, 7th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058
Phone: 080-28392230/28391567 E-mail: essenblr@essenco.in

TEST REPORT

Certificate No: Ay/5848
Regd.No: 6075

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria in 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

:

for Essen & Co.,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5849
Regd.No: 6076

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District - 425. A.P.

Sample Description :- Drinking Water
sample no/Marks.....:- Mirchi Canteen (RO water)
Tested As Per:-

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATESOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	7.13	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	1172.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 -Al-B
8	Ammonia (as Total Ammonia -N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	54.5	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	161.9	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.77	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l ,max	30	100	70.4	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	16.2	APHA 4500 -NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part- 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	60.5	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ , mg/l,max	200	600	314.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ , mg/l, max	200	600	426.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5850
Regd.No: 6077

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria i n 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

for Essen & Co.,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

Essen & Co.,

ESTD. 1944

(ISO 9001-2015 CERTIFIED & NABL ACCREDITED LABORATORY)
ANALYTICAL CHEMISTS & ASSAYERS INSPECTION AGENCY,
SURVEYORS & SAMPLERS.

No. 92, 7th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058
Phone: 080-28392230/28391567 E-mail: essenblr@essenco.in

TEST REPORT

Certificate No: Ay/5852
Regd.No: 6079

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria i n 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

for Essen & Co.,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5853
Regd.No: 6080

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

Sample Description :- Drinking Water
sample no/Marks.....:- Ladies Hostel - RO water
Tested As Per:-

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	7.05	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	1152.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 –Al-B
8	Ammonia (as Total Ammonia –N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	117.0	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	157.9	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.68	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l,max	30	100	44.7	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	16.1	APHA 4500 –NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part- 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	69.6	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ , mg/l,max	200	600	288.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ , mg/l, max	200	600	476.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

Essen & Co.,

ESTD. 1944

(ISO 9001-2015 CERTIFIED & NABL ACCREDITED LABORATORY)
ANALYTICAL CHEMISTS & ASSAYERS INSPECTION AGENCY,
SURVEYORS & SAMPLERS.

No. 92, 7th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058
Phone: 080-28392230/28391567 E-mail: essenblr@essenco.in

TEST REPORT

Certificate No: Ay/5854
Regd.No: 6081

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District - 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria in 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

for Essen & Co.,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample received by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

Certificate No: Ay/5855
Regd.No: 6082

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

TEST REPORT

Certificate No: Ay/5855
Regd.No: 6082

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

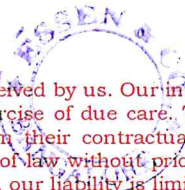
Sample Description :- Drinking Water
sample no/Marks.....:- Microbiology Laboratory
Tested As Per:-

S I N O	PARAMETERS	STANDARD (DESIRABLE LIMIT) ASPER IS:10500/2012	STANDARD (PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATESOURCE)	RESULTS	PROTOCOL
1	Colour in Hazen Units	5	15	<5.0	IS:3025 (Part -4)
2	Odour	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part - 5)
3	pH at 25°C	6.5 TO 8.5	No Relaxation	7.14	IS:3025 (Part - 11)
4	Taste	AGREEABLE	AGREEABLE	AGREEABLE	IS:3025 (Part -7& 8)
5	Turbidity as NTU, max	1	5	<0.5	IS:3025 (Part - 10)
6	Total Dissolved Solids at 180°C mg/l,max	500	2000	1248.0	IS:3025 (Part -16)
7	Aluminium as Al mg/l,max	0.03	0.2	<0.03	APHA 3500 –Al-B
8	Ammonia (as Total Ammonia –N) mg/l,max	0.5	No Relaxation	<0.5	IS:3025 (Part- 34)
9	Boron as B mg/l,max	0.5	1.0	<0.5	IS:3025 (Part -57)
10	Calcium as Ca mg/l,max	75	200	113.8	IS:3025 (Part - 40)
11	Chloride as Cl mg/l,max	250	1000	152.9	IS:3025 (Part - 32)
12	Copper as Cu mg/l,max	0.05	1.5	<0.05	IS:3025 (Part -42)
13	Fluoride as F mg/l,max	1.0	1.5	0.68	APHA 4500-F-A
14	Residual Free Chlorine mg/l,max	0.2	1	<0.2	IS:3025 (Part- 26)
15	Iron as Fe mg/l,max	0.3	No Relaxation	<0.1	APHA 3500-Fe-B
16	Magnesium as Mg mg/l ,max	30	100	45.6	IS:3025 (Part- 46)
17	Manganese as Mn mg/l,max	0.1	0.3	<0.1	IS:3025 (Part -59)
18	Nitrate as NO ₃ mg/l,max	45	No Relaxation	15.8	APHA 4500 –NO ₃ -B
19	Phenolic Compounds as C ₆ H ₅ OH mg/l,max	0.001	0.002	<0.001	IS:3025 (Part- 43)
20	Silver as Ag, mg/l,max	0.1	No Relaxation	<0.05	AJ of IS.13428
21	Sulphate as SO ₄ mg/l,max	200	400	72.3	IS:3025 (Part -24)
22	Sulphide as H ₂ S, mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -29)
23	Total alkalinity as CaCO ₃ , mg/l,max	200	600	284.0	IS:3025 (Part -23)
24	Total Hardness as CaCO ₃ , mg/l, max	200	600	472.0	IS:3025 (Part -21)
25	Zinc as Zn mg/l,max	5	15	<0.4	IS:3025 (Part -49)
26	Cadmium as Cd mg/l, max	0.003	No Relaxation	<0.003	IS:3025 (Part -41)
27	Cyanide as CN mg/l, max	0.05	No Relaxation	<0.05	IS: 3025 (Part- 27)
28	Lead as Pb mg/l, max	0.01	No Relaxation	<0.01	IS:3025 (Part -47)
29	Mercury as Hg mg/l,max	0.001	No Relaxation	<0.001	IS:3025-(Part - 48)
30	Nickel as Ni, mg/l,max	0.02	No Relaxation	<0.02	IS:3025 (Part -54)
31	Total Arsenic as As mg/l,max	0.01	0.05	<0.01	IS:3025 (Part - 37)
32	Total Chromium as Cr mg/l,max	0.05	No Relaxation	<0.05	IS:3025 (Part -52)

for ESSEN CO,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

Essen & Co.,

ESTD. 1944

(ISO 9001-2015 CERTIFIED & NABL ACCREDITED LABORATORY)
ANALYTICAL CHEMISTS & ASSAYERS INSPECTION AGENCY,
SURVEYORS & SAMPLERS.

No. 92, 7th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058
Phone: 080-28392230/28391567 E-mail: essenblr@essenco.in

TEST REPORT

Certificate No: Ay/5856
Regd.No: 6083

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science
Address : & Research, Nelagampalli. Kuppam. Chittoor District - 425. A.P.

BACTERIOLOGICAL TEST:

SL. NO	PARAMETERS (tested as per IS : 1622)	TEST METHOD	RESULT	STANDARD
1	E.coli or Thermotolerant Coliform Bacteria in 100 ml. Sample	IS:1622	Absent	Not Detectable
2	Total Coliform Bacteria in 100 ml Sample	IS:1622	Absent	Not Detectable

for Essen & Co.,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5857
Regd.No: 6084

Date of Issue : 30.03.2024
Date of Receipt :20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science

Address : & Research, Nelagampalli. Kuppam. Chittoor District – 425. A.P.

Sample Description :- STP Water

sample no/Marks.....:- STP Water – 200 K L D

Tested As Per:- is 3025

	PARAMETERS	Requirements	RESULTS
1	Colour in hazen units	-	Colourless
2	Smell	-	Odourless
3	Total Suspended solids at 105°C mg/L	100 max	<5.0
4	Particle size of suspended solids	Shall pass 850 micron IS Sieve	Passes
5	Dissolved solids(inorganic) at 180°C mg/L	2100 max	920.0
6	Temperature °c	Shall not exceed 40°C in any section of the steam within 15 down stream from effluent Outlet	27°C
7	pH value at 25°C	6 to 8.5	6.89
8	Oil & grease, mg/L.	10 max	<10.0
9	Total residual chlorine, mg/L	1.0 max	<0.1
10	Ammonical nitrogen as N, mg/L.	50 max	0.37
11	Total kjeldal nitrogen as N, mg/L	100 max	0.84
12	Free ammonia as NH ₃ , mg/L	5.0 max	0.002
13	Bio-chemical oxygen demand for 3 days @ 27°C mg/L	30.0 max	10.0
14	Chemical oxygen demand, mg/L	250.0 max	50.0
15	Arsenic as As, mg/L	0.2 max	<0.01
16	Mercury as Hg, mg/L	0.01 max	<0.001
17	Lead as Pb, mg/L	0.10 max	<0.01
18	Cadmium as Cd, mg/L	2.0 max	<0.003
19	Hexavalent chromium (Cr+6), mg/L	0.01 max	<0.05
20	Total chromium AS Cr, mg/L,	2.0 max	<0.05
21	Copper as Cu, mg/L	3.0 max	<0.05
22	Zinc as Zn, mg/L	5.0 max	<0.1
23	Nickel as Ni, mg/L	3.0 max	<0.1
24	Boron as B, mg/L	2.0 max	<0.1
25	Cyanide as Cn, mg/L	0.2 max	<0.05
26	Chloride as Cl, mg/L	1000 max	171.9
27	Fluoride as F, mg/L	2.0 max	0.10
28	Dissolved phosphate Po ₄ , mg/L	5.0 max	<1.0
29	Sulphate as So ₄ , mg/L	1000 max	45.0
30	Sulphide as S, mg/L	2.0 max	<1.0
31	Phenolic compounds C ₆ H ₅ OH, mg/L	1.0 max	<1.0
32	Sodium Absorption Ratio	-	1.94

for ESSEN CO,


Chemist


Verified by




Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.

TEST REPORT

Certificate No: Ay/5858
Regd.No: 6085

Date of Issue : 30.03.2024
Date of Receipt : 20.03.2024

Sample submitted by party

Customer Name : The Pes Institute Of Medical Science

Address : & Research, Nelagampalli. Kuppam. Chittoor District - 425. A.P.

Sample Description :- STP Water

sample no/Marks.....:- STP Water - 400 K L D

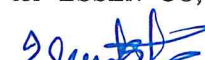
Tested As Per:- IS 3025

	PARAMETERS	Requirements	RESULTS
1	Colour in hazen units	-	Colourless
2	Smell	-	Odourless
3	Total Suspended solids at 105°C mg/L	100 max	<5.0
4	Particle size of suspended solids	Shall pass 850 micron IS Sieve	Passes
5	Dissolved solids(inorganic) at 180°C mg/L	2100 max	750.0
6	Temperature °c	Shall not exceed 40°C in any section of the steam within 15 down stream from effluent Outlet	27°C
7	pH value at 25°C	6 to 8.5	7.43
8	Oil & grease, mg/L .	10 max	<10.0
9	Total residual chlorine , mg/L	1.0 max	<0.1
10	Ammonical nitrogen as N, mg/L.	50 max	0.39
11	Total kjeldal nitrogen as N, mg/L	100 max	0.89
12	Free ammonia as NH ₃ , mg/L	5.0 max	0.006
13	Bio-chemical oxygen demand for 3 days @ 27°C mg/L	30.0 max	6.0
14	Chemical oxygen demand, mg/L	250.0 max	30.0
15	Arsenic as As, mg/L	0.2 max	<0.01
16	Mercury as Hg, mg/L	0.01 max	<0.001
17	Lead as Pb, mg/L	0.10 max	<0.01
18	Cadmium as Cd, mg/L	2.0 max	<0.003
19	Hexavalent chromium (Cr+6) ,mg/L	0.01 max	<0.05
20	Total chromium AS Cr, mg/L,	2.0 max	<0.05
21	Copper as Cu, mg/L	3.0 max	<0.05
22	Zinc as Zn, mg/L	5.0 max	<0.1
23	Nickel as Ni, mg/L	3.0 max	<0.1
24	Boron as B, mg/L	2.0 max	<0.1
25	Cyanide as Cn, mg/L	0.2 max	<0.05
26	Chloride as Cl, mg/L	1000 max	166.9
27	Fluoride as F, mg/L	2.0 max	0.63
28	Dissolved phosphate Po ₄ , mg/L	5.0 max	<1.0
29	Sulphate as So ₄ , mg/L	1000 max	50.1
30	Sulphide as S, mg/L	2.0 max	<1.0
31	Phenolic compounds C ₆ H ₅ OH, mg/L	1.0 max	<1.0
32	Sodium Absorption Ratio	-	1.88


Chemist


Verified by



for ESSEN CO,

Authorised Signatory

Note: The test result in this certificate pertains only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the exercise of due care. This Certificate reflects our findings on the sample receive by us and does not release vendors or buyers from their contractual obligations. This Certificate shall not be reproduced. In part of full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a maximum of one month on request. In case of dispute, our liability is limited to the billed amount received by us.