



Essen & Co.

EC/QCF/17

ESTD. 1944

ANALYTICAL CHEMISTS & ASSAYERS

Founded by : Dr. N. JAYARAMAN, M.A., D.S.C.
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No. 106, 8th Main Road,
Off 18th Cross,
Malleswaram West,
BANGALORE - 560 055.

Certificate Number : IN-Q-196710

TEST CERTIFICATE

CERT NO: AM/5386
REGN NO: 6827

DATE OF ISSUE...: 13-10-2011
DATE OF RECEIPT: 01-10-2011

SAMPLE SUBMITTED BY PARTY

CUSTOMER NAME: Mr. DASARATHI.
ADDRESS.....: K-5, 10TH CROSS, RAJMAHAL VILAS,
BANGALORE.

DESCRIPTION OF SAMPLE: SUMP WATER
TESTED AS PER.....: I.S.3025-APHA-1622

PARAMETER	REQUIREMENT (DESIRABLE LIMIT) AS PER I.S.10500/1991	PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE	RESULTS
COLOUR IN HAZEN UNITS	5 MAX	25	<5.0
ODOUR	UNOBJECTIONABLE	—	UNOBJECTIONABLE
TASTE	AGREEABLE	—	AGREEABLE
TURBIDITY AS NTU	5 MAX	10	<0.10
pH VALUE	6.5 TO 8.5	NO RELAXATION	8.35
TOTAL HARDNESS AS CaCO ₃ , mg/L	300 MAX	600	58.0
IRON AS Fe, mg/L	0.3 MAX	1.0	0.01
CHLORIDE AS Cl, mg/L	250 MAX	1000	12.99
RESIDUAL FREE CHLORINE, mg/L	0.2 MIN	—	<0.01
TOTAL DISSOLVED SOLIDS, mg/L	500 MAX	2000	101.0
CALCIUM AS Ca, mg/L	75 MAX	200	16.43
COPPER AS Cu, mg/L	0.05 MAX	1.5	0.01
MANGANESE AS Mn, mg/L	0.1 MAX	0.3	0.01
SULPHATE AS SO ₄ , mg/L	200 MAX	400	2.35
NITRATE AS NO ₃ , mg/L	45 MAX	NO RELAXATION	<0.01
FLUORIDE AS F, mg/L	1.0 MAX	1.5	<0.01
PHENOLIC COMPOUNDS AS C ₆ H ₅ OH, mg/L	0.001 MAX	0.002	<0.001
MERCURY AS Hg, mg/L	0.001 MAX	NO RELAXATION	<0.001
CADMIUM AS Cd, mg/L	0.01 MAX	NO RELAXATION	<0.01
ARSENIC AS As, mg/L	0.05 MAX	NO RELAXATION	<0.01
CYANIDE AS CN, mg/L	0.05 MAX	NO RELAXATION	<0.01
LEAD AS Pb, mg/L	0.05 MAX	NO RELAXATION	<0.01
ZINC AS Zn, mg/L	5 MAX	15	0.01
CHROMIUM AS Cr+6, mg/L	0.05 MAX	NO RELAXATION	<0.01
ALKALINITY, mg/L	200 MAX	600	67.0
ALUMINIUM AS Al, mg/L	0.03 MAX	0.2	<0.01
BORON AS B, mg/L	1 MAX	5	<0.01
MAGNESIUM AS Mg, mg/L	30 MAX	100	4.13

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M.S.S. KRISHNAD
Asst. Director

For ESSEN & CO.,

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<u>BACTERIOLOGICAL CHARACTERISTICS:</u>			
MPN COLIFORM BACTERIA, 100 ml	10 MAX		172
FECAL COLIFORM BACTERIA/100 ml	ABSENT		ABSENT
E.COLI BACTERIA PER 100 ml	ABSENT		ABSENT

/ **REMARKS: THE WATER SHOULD BE PURIFIED BEFORE USE.**

J.J.J. KRISHNA
Asst. Director

For **ESSEN & Co.**
[Signature]

Authorised Signatory