



Certificate Number: IN-Q-196710

No. 106, 8th Main Road,  
Off 18th Cross,  
Malleswaram West,  
BANGALORE - 560 055.

# Essen & Co.

ESTD. 1944

**ANALYTICAL CHEMISTS & ASSAYERS**

Founded by : Dr. N. JAYARAMAN, M.A., D.S.C.

Director : Dr. J. RAJARAM

EC/QCF/17

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## TEST CERTIFICATE

CERT NO: AM/5387

REGN NO: 6828

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: FILTER 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	8.18
TOTAL HARDNESS AS CaCO <sub>3</sub> , mg/L	300 MAX	600	71.0
IRON AS Fe, mg/L	0.3 MAX	1.0	0.02
CHLORIDE AS Cl, mg/L	250 MAX	1000	15.99
RESIDUAL FREE CHLORINE, mg/L	0.2 MIN	—	<0.01
TOTAL DISSOLVED SOLIDS, mg/L	500 MAX	2000	129.0
CALCIUM AS Ca, mg/L	75 MAX	200	18.43
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 <sub>4</sub> , mg/L	200 MAX	400	3.03
NITRATE AS NO <sub>3</sub> , mg/L	45 MAX	NO RELAXATION	<0.01
FLUORIDE AS F, mg/L	1.0 MAX	1.5	<0.01
PHENOLIC COMPOUNDS AS C <sub>6</sub> H <sub>5</sub> 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	0.02
CHROMIUM AS Cr+6, mg/L	0.05 MAX	NO RELAXATION	<0.01
ALKALINITY, mg/L	200 MAX	600	78.0
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	6.07

Cont. Page 2

**S.S. KRISHNAP**

*Asst. Director*

For **ESSEN & CO.**

Authorised Signatory



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

REMARKS: THE WATER IS POTABLE.

**S.S.S. KRISHNA**  
Asst. Director

For ESSEN & CO.

Authorised Signatory

See Note Overleaf