

ಭಾರತದ ಮೊದಲ ಭೂಮಿ : ನಮ್ಮೆಲ್ಲರ ಮನೆ

ಸಂಕೇಧಿಸಿ, ಸಂರಕ್ಷಿಸಿ, ಲೈವ್‌ಲೈನಿ.

ಸೀನದಿಂದ ಮೂಲನಗೊಂದ ಕೆರೆಗಳ
ಬಿಂದು ಅಧ್ಯಯನ



ತುಂಬದ ನಾಯಕಿ: ಪವಿತ್ರ ಯು.ಎಸ್.



ಅಖಿಲ

ಕರ್ನಾಟಕ

ಮಕ್ಕಳ

ವಿಜ್ಞಾನ

ನವೆಂಬರ್

2008

Name of the project:- Lead Contamination in Lakes a case Study.

Language:- Kannada. State: Karnataka.

District:- Bangalore. Edu Dist: Bangalore South rural.

Leader:- Pavithra. U.S. class:- 6th Std.
Sex:- Female Age: 11 years.

Address:- No. 643. 8th cross. Weavers Colony. Gattigere.
Bannerughatta Road. Bangalore. 560083.

School :- Vidyanjali primary School. 8th cross.
Weavers Colony. Gattigere. Bannerughatta Road.
Bangalore. 560083.

Team members :-

1. T. Targarate pavithra. D. 6th Std.
2. Vaishnavi. R. 6th Std.
3. Shalini. L. 5th Std.
4. Sushma. K. 6th Std.

Guide Teacher:- Umashankar. B.

Vidyanjali primary and High School. 8th cross.
Weavers Colony. Gattigere B.G. Road. Bangalore. 83

A. Hemalatha
HEAD MISTRESS
VIDYANJALI PRIMARY & HIGH SCHOOL
Weaver's Colony, Gattigere, Bangalore-83

ABSTRACT

Environment consists all external factors both biotic and abiotic. It plays a key role in development and survival of organisms. We should keep our environment clean to avoid ill-effects. Lead poisoning is the most serious environmental health threat to children and adults. Lead was 1st mined in Turkey in 6500 B.C. Lead toxicity was recognized and recorded in 2000 B.C. Today most exposure has been seen in developing countries. For this project we had a awareness campaign and survey was conducted to knowledge people about Lead poisoning. Water of 4 lakes around Gottigere weavers colony was tested before and after immersion of Ganesha idols at the time of festival. Lead level was upto 12.8 ppb after immersion of idols before it was < 5 ppb. Lead affects children occupationally exposed more than general population. Lead poisoning affects Central Nerves system and other organs. Exposure through inhalation, ingestion and Dermal absorption. Lead has no biological role in human body. Blood Lead Level of pavithra U.S and Shalini. L is 5.6 and 7.3 $\mu\text{g/dl}$ respectively. though the parents of these children do not work in any Lead exposes occupation. This is because of environmental pollution of Gottigere weavers colony. Treatment of Lead poisoning can be made through education, medication, nutrition and prevention. For further action a copy has been submitted to Capt. Dr. Nandini. N Dpt of Environmental science Bangalore University. M.P. Tejaswini Gowda and M.L.A. M. Krishnappa. We thank N.R.C.L.P.I 's Dr. H.T. Venkatesh. Dr. H.K. Chandrashekar, Capt. Dr. Nandini. N. Our Head mistress, staff, and my friends for helping to complete this project.

ಪರಿಸರ ಸ್ನೇಹಿ ಗಣಿಶ ಚತುರ್ಥ ಆಚರಣೆ



ಹಿಂದಿನ ದಿನಗಳಲ್ಲಿ ನಾವುಗಳು ಮಣ್ಣಿನಿಂದ ಮಾಡಿದ ನೈಸರ್ಗಿಕ ಬಣ್ಣಗಳನ್ನು ಬಳಸಿ ಮೂರ್ತಿಗಳ ಆರಾಧನೆ ಮಾಡುತ್ತಿದ್ದೆವು. ದಿನಗಳು ಕಳೆದಂತೆಯೆ ಮಣ್ಣಲ್ಲದ ಬೇರೆ ವಸ್ತುಗಳನ್ನು ಬಳಸಿದ ಮೂರ್ತಿಗಳನ್ನು ವಿವಿಧ ತೈಲ ಬಣ್ಣಗಳನ್ನು ಹಚ್ಚಿ ತಯಾರು ಮಾಡಿದ ಮೂರ್ತಿಗಳನ್ನು ಪೂಜಿಸುತ್ತಿದ್ದೇವೆ. ಈ ತೈಲ ಬಣ್ಣಗಳಲ್ಲಿ ವಿಷಕಾರಿ ವಸ್ತುಗಳಾದ ಮೆಕ್ಯೂರಿ, ಆರ್ಸನಿಕ್, ಲೆಡ್ ಕಾರ್ಬನ್, ಮುಂತಾದವುಗಳು ಇರುತ್ತವೆ. ಪ್ಲಾಸ್ಟರ್ ಆಫ್ ಪ್ಯಾಲಿಸ್ (P.O.P) ಬಳಸಿದ ಮೂರ್ತಿಗಳಲ್ಲಿ ಜಪ್ಸಂ, ಸಲ್ಫರ್, ಪಾಸ್ಪರಸ್ ಮುಂತಾದವುಗಳು ಇರುತ್ತವೆ. ಇಂತಹ ವಿಷಕಾರಿ ವಸ್ತುಗಳು ನೀರಿನಲ್ಲಿ ಕರಗಿ ಪರಿಸರ ವ್ಯವಸ್ಥೆಯನ್ನು ಹಾಳು ಮಾಡುತ್ತದೆ. ಈ ನೀರನ ಉಪಯೋಗಿಸುವ ನಾವು ವಿಶೇಷವಾಗಿ ಮಕ್ಕಳಲ್ಲಿ ಉಸಿರಾಟದ ತೊಂದರೆ, ಚರ್ಮರೋಗ ರಕ್ತ ಕಿಡ್ನಿಗೆ ಸಂಬಂಧಿಸಿದ ತೊಂದರೆಗಳು, ದಿನ ಕಳೆದಂತೆ ಬಂಜೆತನಕ್ಕೂ ಕೂಡ ಗುರಿಯಾಗುತ್ತಾ ಕರೆ, ಬಾವಿಗಳಲ್ಲಿ ಹೆಚ್ಚಿನ ಮೂರ್ತಿಗಳ ವಿಸರ್ಜನೆಯಿಂದ ಮಣ್ಣು ಮತ್ತು ಇತರ ವಸ್ತುಗಳು ಸೇರಿ ನೀರಿನ ಸ್ಥಳವನ್ನು ಆಕ್ರಮಿಸಿಕೊಳ್ಳುತ್ತದೆ. ಆಗ ನೀರು ಶೇಖರಣೆಯಾಗದೆ ಅಂತರ್ಜಲದ ಮಟ್ಟ ಕುನಿಯುತ್ತದೆ. ಇದರಿಂದ ನೀರಿನ ಅಭಾವವನ್ನು ಎದುರಿಸಬೇಕಾಗುತ್ತದೆ. ದೇವರ ಅನುಗ್ರಹಕ್ಕೂ ಹಬ್ಬಗಳನ್ನು ಆಚರಿಸುವ ನಾವು ಇಂತಹ ತೊಂದರೆಗಳಿಗೆ ಗುರಿಯಾಗುವುದು ಎಷ್ಟರ ಮಟ್ಟಿಗೆ ಸರಿ

ಹಬ್ಬದ ಆಚರಣೆಯಲ್ಲಿ ಕೆಲವು ಮಾರ್ಗಸೂಚಿಗಳನ್ನು ಅನುಸರಿಸೋಣ :

1. ಚಿಕ್ಕದಾದ ಬಣ್ಣರಹಿತ ಅಥವಾ ನೈಸರ್ಗಿಕ ಬಣ್ಣ ಲೇಪಿತ ಮೂರ್ತಿಗಳನ್ನು ಪೂಜಿಸೋಣ.
2. ಸಂಚಾರಿ ವಿಸರ್ಜನೆ ವಾಹನ ಅಥವಾ ನಿಗದಿ ಪಡಿಸಿದ ಸ್ಥಳ ನಮ್ಮೂರಿನಲ್ಲಿ ಇಲ್ಲದೇ ಇರುವುದರಿಂದ ಮೂರ್ತಿಯನ್ನು ನಮ್ಮ ಮನೆಯಲ್ಲಿರುವ ಬಕೇಟ್ ಅಥವಾ ಡ್ರಮ್‌ನಲ್ಲಿ ವಿಸರ್ಜಿಸೋಣ.
3. ಆಚರಣೆಗಳು ಮಕ್ಕಳು, ವೃದ್ಧರು, ರೋಗಿಗಳಿಗೆ ತೊಂದರೆಯಾಗದಂತೆ ನೋಡಿಕೊಳ್ಳೋಣ.
4. ಪುಂಜಪದಲ್ಲಿ ಒಂದೇ ಮೂರ್ತಿಯನ್ನು ಪೂಜಿಸೋಣ.
5. ರಾಷ್ಟ್ರರಕ್ಷಣೆ, ಧರ್ಮ ಜಾಗೃತಿ, ನಮ್ಮ ಸಂಸ್ಕೃತಿ, ಪ್ರತಿ ಬಿಂಬಿಸುವ ಕಾರ್ಯ ಕ್ರಮಗಳಿರಲಿ.
6. ದುಭಾರಿ ಅಲಂಕಾರ, ವಿದ್ಯುತ್ ಬಳಕೆ, ಧ್ವನಿ ಮಾಲಿನ್ಯ, ಪರಿಸರ ಮಾಲಿನ್ಯ, ವಾಹನ ಸಂಚಾರಕ್ಕೆ ಅಡ್ಡಿಯಾಗದಂತೆ ಗಣೇಶೋತ್ಸವನ್ನು ಆಚರಿಸೋಣ.

“ನಿಸರ್ಗ ಸಂರಕ್ಷಣೆಯೇ ಶ್ರೇಷ್ಠ ರೂಪದ ಆರಾಧನೆ”

ಪ್ರಕಟಣೆ :

**ವಿದ್ಯಾಂಜಲ ವಿಜ್ಞಾನ ಕೇಂದ್ರ
ವಿದ್ಯಾಂಜಲ ಪ್ರಾಥಮಿಕ ಮತ್ತು ಪ್ರೌಢಶಾಲೆ**

ವೀವರ್ ಕಾಲೋನಿ, ಗೊಟ್ಟಿಗೆರೆ, ಬೆಂಗಳೂರು - 83.

TEST REPORT

Report No: **AWRTCL /940808 - 1090808**

Date: **28.08.2008**

Customer details	Sample details
Name & Address: Dr. Thuppil Venkatesh Principal advisor St Johns Medical College John Nagar post Bangalore 560 034 Ph: 22065058	Sample Code No: AWRTCL / 940808-1090808 Sample received on: 28.08.2008 Period of Analysis: 1 day Quantity: 1000ml Sampling: Not in the scope of AWRTC Subcontract: NA Condition of the sample when received: Clear water in plastic bottle

Results :

S.No	SAMPLE PARTICULARS	LEAD CONCENTRATION (µg/L)
1	1 N ✓	< 5
2	2 N ✓	< 5
3	3 N ✓	< 5
4	4 N ✓	< 5
5	1 E ✓	< 5
6	2 E ✓	< 5
7	3 E ✓	< 5
8	4 E ✓	< 5
9	1 W ✓	< 5
10	2 W ✓	9.4
11	3 W ✓	7.16
12	4 W ✓	< 5
13	1 S ✓	< 5
14	2 S ✓	< 5
15	3 S ✓	< 5
16	4 S ✓	< 5
IS - 10500, 1991 Drinking Water Specification- edition 2.2 (2003-09) Desirable limit maximum Test method		50
		APHA 21 ST edition-3111A

Interpretation:-The tested samples conform to **IS - 10500, 1991 Drinking Water Specification edition 2.2 (2003-09)** for Lead content.

[Signature]
Dr. S. MURALIDHARA RAO
SR-MANAGER TECHNICAL OPERATIONS

Note :

- The Results pertain only to the tested samples and applicable parameters.
- Samples will be disposed after 15 days from the issue of test certificate unless otherwise specified, In case of bacteriological samples the samples will be disposed after 7 days itself from the date of issuing the certificate.
- This report is not to be reproduced either wholly or in part and cannot be used as evidence in the court of Law and should not be used in any advertising media without prior written permission.
- In case of any reconfirmation of contents of this certificate is required please contact our office.

Mailing Address :

No.57, Omshakthi Complex, 1st Floor, G.B.Palya, Hosur Main Road, Bangalore - 560 068, India.
Tel No : +9180 25731142/81. Fax No : +91 80 25731173.
Email : aquadiagnostics@gmail.com. Website : www.aquadiagnostics.com

*After Ganesh Festival.***TEST REPORT****Report No: AWR TCL /350908-520908****Date: 15.09.2008**

Customer details	Sample details
Name & Address: Dr. Venkatesh Thupill Principal Advoicer St. Jhon's Medical College John Nagar Post Bangalore - 560034 Ph: 22065058	Sample Code No: AWR TCL 350908-520908 Sample received on: 11.09.2008 Period of Analysis: 1 day Quantity: 1000ml Sampling: Not in the scope of AWR TC Subcontract: NA Condition of the sample when received: Turbid water in plastic bottle.

Results:

S.No	SAMPLE PARTICULARS	LEAD CONCENTRATION (µg/L)
1	E-3 (EAST-3)	12.8 PPb
2	E-4	6.7 PPb
3	1GW (1)	5.70 PPb
4	2BE (2)	<5 PPb
5	G (1)	9.22 PPb
6	N-4 (4)	<5 PPb
7	N-3 (3)	5.05 PPb
8	2BW (2)	6.9 PPb
9	2BN (2)	<5 PPb
10	4W (4)	<5 PPb
11	2BS (2)	<5 PPb
12	SOUTH 5-3 (3)	<5 PPb
13	W3 (3)	<5 PPb
14	4	9.60 PPb

Page 1 of 2

Note :

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2. Samples will be disposed after 15days from the issue of test certificate unless otherwise specified, In case fo bacteriological samples the samples will be disposed after 7 days itself from the date of issuing the certificate.
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Email : aquadiagnostics@gmail.com. Website : www.aquadiagnostics.com

AQUADIAGNOSTICS

Water Research & Technology Centre Limited

RECOGNIZED BY WATER QUALITY ASSOCIATION, USA

15	1 GN (1)	<5 PPb
16	1 GE (1)	9.90 PPb
	Sample No.9 (Eco Ganesha Project 9/9/08)	28.41 PPb
	Sample No.8 (Before Ganesha Festival)	<5
	IS – 10500, 1991 Drinking Water Specification- edition2.2(2003-09) Desirable limit maximum	50
	Test method	APHA 21 ST edition-3111A

Interpretation:-The tested samples conform to IS – 10500, 1991 Drinking Water Specification-edition2.2 (2003-09) for tested parameter.


DR. S. MURALIDHARA RAO.
SR.MANAGER-TECHNICAL OPERATIONS.

Page 2 of 2

Note :

1. The Results pertain only to the tested samples and applicable parameters.
2. Samples will be disposed after 15days from the issue of test certificate unless otherwise specified, In case fo bacteriological samples the samples will be disposed after 7 days itself from the date of issuing the certificate.
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Tel No : +9180 25731142/81. Fax No : +91 80 25731173.
Email : aquadiagnostics@gmail.com Website : www.aquadiagnostics.com

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
(ತೋಟಗಾರಿಕೆ ಇಲಾಖೆ)

ಬಯೋಟೆಕ್ನಾಲಜಿ ಕೇಂದ್ರ, ಅಂಚೆ ಪೆಟ್ಟಿಗೆ ಸಂ: 7648, ಹುಳಿಮಾವು, ಬೆಂಗಳೂರು.
ದೂರವಾಣಿ (080) 6582775 ಫ್ಯಾಕ್ಸ್ (080) 6584906

ಸಂ:ತೋಇ:ಜೀವತ:ತೋಉನಿ:ಸಪೋ:ವಿನಿ: :2008-09

ನೀರು ಮಾದರಿ ವಿಶ್ಲೇಷಣಾ ವರದಿ

ಸ್ವೀಕರಿಸಿದ ದಿನಾಂಕ: 22-08-2008 ವಿಶ್ಲೇಷಣಾ ದಿನಾಂಕ: 23-08-2008 ವರದಿ ದಿನಾಂಕ: 05-09-2008

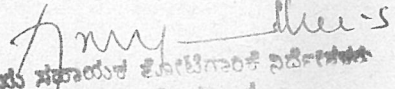
1. ರೈತರ ಹೆಸರು ಮತ್ತು ವಿಳಾಸ : ವಿದ್ಯಾಂಜಲಿ ಸ್ಕೂಲ್, ವೀವರ್ಸ್ ಕಾಲೋನಿ, ಗೊಟ್ಟಿಗೆರೆ, ಬೆಂಗಳೂರು-83
2. ಸರ್ವೆ ನಂ : -
3. ಹಾಲಿ ಇರುವ ಬೆಳೆ : -
4. ಬೆಳೆಯಲು ಉದ್ದೇಶಿಸಿರುವ ಬೆಳೆ : -

ಮಾದರಿಯ ಕ್ರಮ ಸಂಖ್ಯೆ	ನೀರಿನ ವಿಧ ಕೊಳಬೆ ಬಾವಿ / ತೆರೆದ ಬಾವಿ	ರಸಸಾರ	ಲವಣಾಂಶ (mmhos/cm ²)	ಸೋಡಿಯಂ (me/l)	ಕಾರ್ಬೋನೇಟ್ಸ್ / ಬೈಕಾರ್ಬೋನೇಟ್ಸ್ (me/l)	ಕ್ಯಾಲ್ಸಿಯಂ (me/l)
738		6.99	0.55	1.52	2.20	2.00
739		7.04	0.20	0.96	2.00	1.10
740		7.05	0.33	1.80	1.60	2.10
741		7.02	0.46	2.32	2.90	2.80

ಶಿಫಾರಸ್ಸು:

30/10

ಸಹಾಯಕ ತೋಟಗಾರಿಕೆ ಅಧಿಕಾರಿ
(ಸಸ್ಯ ಪೋಷಕಾಂಶ ಪ್ರಯೋಗಶಾಲೆ)


ಹಿರಿಯ ಸಹಾಯಕ ತೋಟಗಾರಿಕೆ ನಿರ್ದೇಶಕರು
ಹಿರಿಯ ಸಹಾಯಕ ತೋಟಗಾರಿಕೆ ನಿರ್ದೇಶಕರು
(ಸಸ್ಯ ಪೋಷಕಾಂಶ)

GOVERNMENT OF KARNATAKA
(Department of Horticulture)

NO/DH/ SADH(PN)/AHO/ /2008-09

Directorate of Horticulture
Biotechnology Centre,
Hulimavu, P.O.Box No.7648
Bangalore

HEAVY METAL ANALYSIS REPORT

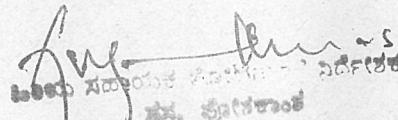
Date of Receipt: 22-08-2008 Date of Analysis: 23-08-2008 Date of Report: 05-09-2008

Name and Address: Vidyanjali School, Weavers colony, Gottigere, Bangalore-83

Sl No	Lab No	Types of Sample	Heavy Metal (PPM)		
			Arsenic (As)	Cadmium (Cd)	Lead (Pb)
1	738	Water sample	0.00	0.00	-
2	739	Water sample	0.00	0.00	-
3	740	Water sample	0.00	0.00	-
4	741	Water sample	0.00	0.00	-

Recommendation:

de 30/10
Assistant Horticulture Officer
(Plant nutrition)


Senior Assistant Director of Horticulture
(Plant Nutrition)

Patients Name and Address: Pavitra. Bangalore

Age/Sex: 10 yrs / F

MRD No. (IP/OP):

Referred by: Name & Address: Command Hospital

Identification Item tested: WHOLE BLOOD

(Specimen/s received)

Date & time of Collection: 13/11/08 at 11.30 am

Date & Time of receipt: 13/11/08 at 11.30 am

Details of storage: 2-8° C

Date & Time of reporting: 14/11/08 at 03:30 pm

Enclosures: NIL

Sl. No	NAME	AGE/SEX	Test	Result
01.	Pavitra	10/F	BLOOD LEAD LEVEL	5.6 ug/dl

METHOD OF ANALYSIS: ANODIC STRIPPING VOLTAMMETRY

Reference ranges with units: Children up to 6 yrs (as per CDC guidelines) Normal- Up to 9µg /dl
Elevated- Above 15µg /dl
Medical Evaluation- Above 20µg /dl
Medical Emergency- Above 45µg /dl

Occupationally exposed adults
(As Per OSHA standard)

Unexposed- Up to 9µg /dl
Allowable "Safe"- Up to 42µg /dl
Maximum Allowable- Up to 53µg /dl

OSHA requirements are expressed in µg /100g (µg Pb/dl * 0.95 = µg Pb/100g)

END OF REPORT

Authorized Signatory:

Signature: 

Name: RAVIRAJA A

Designation:

(Asst. Prof. of Biochemistry
KIMS Hospital - on deputation)
Ph.D Scholar in Biochemistry
SJMC - Belga



Patients Name and Address: Pavitra Bangalore

Age/Sex: 11 yrs / F

MRD No. (IP/OP):

Referred by: Name & Address: Command Hospital

Identification Item tested: WHOLE BLOOD

(Specimen/s received)

Date & time of Collection: 13/11/08 at 11.30 am

Date & Time of receipt: 13/11/08 at 11.30 am

Details of storage: 2-8^o C

Enclosures: NIL

Date & Time of reporting: 14/11/08 at 03:30 pm

SI. No	NAME	AGE/SEX	Test	Result
01.	Shalini	11Y/F	BLOOD LEAD LEVEL	7.3 µg/dl

METHOD OF ANALYSIS: ANODIC STRIPPING VOLTAMMETRY

Reference ranges with units: Children up to 6 yrs (as per CDC guidelines) Normal- Up to 9µg /dl
Elevated- Above 15µg /dl
Medical Evaluation- Above 20µg /dl
Medical Emergency- Above 45µg /dl

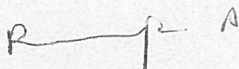
Occupationally exposed adults
(As Per OSHA standard)

Unexposed- Up to 9µg /dl
Allowable "Safe"- Up to 42µg /dl
Maximum Allowable- Up to 53µg /dl

OSHA requirements are expressed in µg /100g (µg Pb/dl * 0.95 = µg Pb/100g)

END OF REPORT

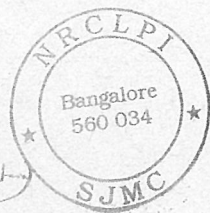
Authorized Signatory:

Signature: 

Name: RAVIRAJA - A

Designation:

(Asst. Prof. of Biochemistry)
KIMS - Hubli - on deputation
Ph.D. scholar in Biochemistry
SJMCH - Bangalore



Date: 14-11-08



Dr. Thuppil Venkatesh, Ph.D FACBI
PRINCIPAL ADVISOR

Quality Council of India
2nd Floor, Institution of Engineers Building,
Bahadur Shah Zafar Marg,
New Delhi - 110 002. INDIA
Telefax : +91-11-23379321, 2337 9621
Website : www.qcin.org

Date: 12th November 2008

CERTIFICATE

We highly appreciate Ms. Pavithra U.S. of VIth standard for actively involved in successful completion of research project entitled "**Lead contamination in lakes around Gottigere, Bangalore**" supported by Quality Council of India (QCI) and National Referral Centre for lead Poisoning in India (NRCLPI). This project was carried out at **Vidyanjali Primary & High School, Weavers Colony, Gottigere, Bangalore** under the guidance of Mr. Uma Shankar E., Vidyanjali Primary & High School Secretary.

My best wishes to Ms. Pavithra for her future endeavours.

Venkatesh Thuppil





Dr. Thuppil Venkatesh, Ph.D FACBI
PRINCIPAL ADVISOR

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Telefax : +91-11-23379321, 2337 9621
Website : www.qcin.org

Date: 21st November 2008

NATIONAL REFERRAL CENTRE FOR LEAD POISONING IN INDIA
(NRCLPI)

To,
Mr. Uma Shankar E
School Secretary,
Vidyanjali Primary & High School
Weavers Colony, Gottigere,
Bangalore.

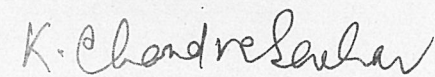
Sub: Commending for the successful completion of the project and a token of appreciation.

Dear Sir,

We would like to appreciate you and your team members for successfully completing the project entitled "**Lead contamination in lakes around Gottigere, Bangalore**". Quality Council of India (QCI) would be happy to support your team for taking up future short-term projects related to Lead. As a token of appreciation we are issuing a cheque of Rs 5000/- for the future programmes to be conducted on Lead Awareness and/or Lead related projects.

We look forward to have more interaction with you. Thank you!!

With Best Wishes.



Dr. T. Venkatesh



NRCLPI - St. John's



QCI



NATIONAL REFERRAL CENTRE FOR LEAD POISONING IN INDIA (NRCLPI)

St. John's Medical College, Bangalore - 560 034

PARTICIPATION CERTIFICATE

This is to certify that **Mr./Ms. Pavithra NS** has participated in

the training workshop "LEAD-er : Lead Educator capacity building in

Organizing Lead awareness" programmes at **SIR College** on

..... **23/08/2008**

T. Venkatesh
T. VENKATESH
Principal Advisor - QCI
Professor of BioChemistry
Director - NRCLPI

EUREKA FORBES
Your friend for life



N. Shashidhar
N. SHASHIDHAR
Advisor
National Referral Centre
for Lead Poisoning in India