

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, SOUTHERN
ZONE, CHENNAI**

APPEAL NO. 144 OF 2016 (SZ)

KALIMUTHAN & OTHERS

... APPELLANT

VERSUS

**THE UNION OF INDIA
& OTHERS**

... RESPONDENT

VOLUME - V

TEST REPORT - DOMESTIC COAL

**M/S. ABDUL SALEEM
COUNSEL FOR THE 3RD RESPONDENT**



MONARCH BIOTECH PVT. LTD.

UNIT : MONARCH NUCLEAR COUNTING LABORATORY



Accredited by : AERB & NABL Recognized by : BIS & *Issat*

TEST REPORT

ORIGINAL

Report Number: MBT / CL / 0723 / 16 - 17

Date: 23.12.2016

PARTICULARS OF SAMPLE SUBMITTED

Sample Described by customer as : DOMESTIC COAL

Customer Name : The Chief Engineer/ Projects,
TANGEDCO (A Successor entity of TNEB)

Customer Address : 5th Floor Western Wing, NPKRR Malligai,
144, Anna Salai, Chennai-2.

Postal Code : 600 002

State : Tamil Nadu

Country : India

Sample Code No : 1612028

Sample Type : COAL

Sample Received Date : 20.12.2016

Sample Qty. Recd. : 750 gms

Batch No : Nil

Mfg Date : Nil

Exp. Date : Nil

Terms and Condition

This report in full or in part shall not be published, advertised, used for any legal action, unless prior permission has been secured. This test report pertains only for the sample tested and such samples are retained for 7 days (in case of perishable) and 15 days for all other samples. In case of Complaint received from customers sample will be kept for 30 days. The samples from regulatory bodies are to be retained as specified. Sample Not Drawn by Laboratory.



For MONARCH BIOTECH PVT. LTD.

M. *Seetha*
Authorised Signatory

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MONARCH BIOTECH PVT. LTD.

UNIT : MONARCH NUCLEAR COUNTING LABORATORY



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TEST REPORT

Date: 23.12.2016

Sample No : 1612028
 Job Card No : 927
 Report No : MBT / CL / 0723 / 16-17
 Reference to sampling procedure,
 Wherever applicable : Not applicable
 Deviation from the test methods as prescribed
 in relevant ISS/Work Instructions, if any : NIL
 Test Commenced On : 20.12.2016
 Test Completed On : 23.12.2016

S.No	Test Parameters	Test Method	Result	Unit
1	Nickel as Ni	MBT/CL/SOP/ 091	8.13	mg/kg
2	Iron as Fe		1359	mg/kg
3	Arsenic as As		0.22	mg/kg
4	Lead as Pb		8.83	mg/kg
5	Zinc as Zn		24.82	mg/kg
6	Mercury as Hg		0.02	mg/kg
7	Selenium as Se		BLQ (LOQ : 0.01)	mg/kg
8	Sulphur as S	IS 1350 (Part-III) 1969 (RA : 2000)	0.84	%
9	Chromium (VI)	Eurasian J Anal Chem 8(1) : 10 -16, 2013	4.89	mg/kg

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

*****End of Report*****



A. Kanagavel
 A.Kanagavel
 Authorized Signatory

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Regd. Office & Sample Collection Centre : New No. 17/1, Sadhana Street, T. Nagar, Chennai - 600 017, Tamilnadu, INDIA.

Phone: 91-44- 24352756 / 24312656. E mail : monarchbio@gmail.com, info@monarchtestinglab.com Website : www.monarchtestinglab.com

LAB : 37-A, SIDCO Industrial Estate, Thirumazhisai, Chennai - 600 124, Tamilnadu, INDIA. Phone: 91-44- 26810052



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RADIOACTIVITY MEASUREMENT / TEST REPORT

Test Report. No. MB / NCL / 1612135 / Original / 17503

Date: 24 / 12 / 2016

1. Sample identification : 016540
2. Sample received from : The Chief Engineer /Projects, TANGEDCO, Chennai
3. Nature of sample : Domestic Coal
4. Volume / weight : 4 kg X 1 No
5. Sample received on : 20 / 12 / 2016
6. Testing completed on : 23 / 12 / 2016

S.No	Nuclides Analyzed	Activity Determination Limit Of Instrument MDA (3σ)	Method Of Testing	Result (Bq / kg)	Exemption levels as per IAEA BSS
1.	Nat Th	9.27 Bq/kg	AERB – Standard Analytical method (Clause 4.3.4 : 2003)	45.64 ± 9.36	1000 Bq/kg
2.	Nat U	8.65 Bq/kg	AERB – Standard Analytical method (Clause 4.3.4 : 2003)	18.38 ± 8.47	1000 Bq/kg
3.	K - 40	53.67 Bq/kg	AERB – Standard Analytical method (Clause 4.3.4 : 2003)	73.04 ± 51.48	1,000,000 Bq/kg

BDL: Below Detection limit

Remarks: The above sample was analyzed for the radioactivity content. This is to certify that the activity level of Nat Th, Nat U, K-40 in the sample was found to be below the IAEA Basic safety series limits. The spectrum / result files are stored as part of Nuclear Counting Facility Records.

Sample return: The sample will be kept for one month and disposed-of or returned on request after one month. If there is any discrepancy / complaint received from the customer within one month from the date of report, the sample will be kept for two months.

This report pertains to only for the sample given to this laboratory.

Disclaimer: This certificate should not be produced in any court of law as part or in full without the written approval of this Laboratory.

To

The Chief Engineer/Projects,
TANGEDCO(A Successor entity of TNEB),
5th Floor Western Wing,
NPKRR Maaligai,
144, Anna Salai, Chennai-600 002.



M. Saravanan

M. SARAVANAN
Authorised Signatory

Regd. Office & Sample Collection Centre : New No. 47/1, Sadullah Street, T. Nagar, Chennai - 600 017, INDIA.
Phone : +91-44-2435 2756, 2431 2656. Tele Fax : +91-44-2481 2769. E-mail : info@monarchnuclearlab.com
Website : www.monarchnuclearlab.com

LAB : 37-A, SIDCO Industrial Estate, Thirumazhisai, Chennai - 600 124, INDIA.

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