



# DEEP TESTING LABORATORIES

(An NABL Accredited Laboratory)



Our Range of Multi Disciplinary Testing Facilities :-  
BUILDING MATERIALS, CHEMICAL TESTING, ENVIRONMENTAL TESTING, METALLURGICAL TESTING,  
MECHANICAL TESTING, NON DESERUCTIVE TESTING, FERROUS & NON FERROUS METALS

## TEST REPORT

TC No.- 000016072122-01

Issue Date 20.07.2020

S.R.F. 0194G1

Issued To NCR Enterprises  
Khasra No. 33, Sikri Shahpur Road  
Sikri, Faridabad

D.O.R. 16.07.2020

Drawn By CUSTOMER

Sample particular Earth Enhancing Compound

J.O. No. 16072020-01

Date of testing  
16.07.2020 To 18.07.2020

### Results

S. No.	Name of Parameter	Unit	RoHS Limit	Observed Value	Test Method
1.	Lead (Pb)	mg/kg	1000	188	IEC 62321-5:2013
2.	Cadmium (Cd)	mg/kg	100	BDL	IEC 62321-5:2013
3.	Mercury (Hg)	mg/kg	1000	BDL	IEC 62321-4:2013
4.	Hexavalent Chromium (Cr <sup>+6</sup> )	mg/kg	1000	BDL	IEC 62321-7-2:2017

Remarks: 1. mg/kg = ppm, 2. BDL = Not Detected

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Page 1 of 4

ADDRESS: PLOT NO. 338, SECTOR-58, FARIDABAD (HARYANA)  
PHONE : NO. +91-129-4151541-43 E-Mail ID : dtlfbdd\_deep@yahoo.co.in



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S. No.	Name of Parameter	Unit	RoHS Limit	Observed Value	Test Method
5.	Polybrominated Biphenyls (PBBs)	mg/kg	1000	BDL	IEC 62321, Ed1:2008-12
	Monobrobiphenyl	mg/kg	---	BDL	
	Dibromobiphenyl	mg/kg	---	BDL	
	Tribromobiphenyl	mg/kg	---	BDL	
	Tetrabromobiphenyl	mg/kg	---	BDL	
	Pentabromobiphenyl	mg/kg	---	BDL	
	Hexabromobiphenyl	mg/kg	---	BDL	
	Heptabromobiphenyl	mg/kg	---	BDL	
	Octabromobiphenyl	mg/kg	---	BDL	
	Nonabromobiphenyl	mg/kg	---	BDL	
	Decabromobiphenyl	mg/kg	---	BDL	
6.	Polybrominated Diphenylethers (PBDEs)	mg/kg	1000	BDL	IEC 62321, Ed1:2008-12
	Monobromodiphenyl ether	mg/kg	---	BDL	
	Dibromodiphenyl ether	mg/kg	---	BDL	
	Tribromodiphenyl ether	mg/kg	---	BDL	
	Tetrabromodiphenyl ether	mg/kg	---	BDL	
	Pentabromodiphenyl ether	mg/kg	---	BDL	
	Hexabromodiphenyl ether	mg/kg	---	BDL	
	Heptabromodiphenyl ether	mg/kg	---	BDL	
	Octabromodiphenyl ether	mg/kg	---	BDL	
	Nonabromodiphenyl ether	mg/kg	---	BDL	
	Decabromodiphenyl ether	mg/kg	---	BDL	

Remarks: 1. mg/kg = ppm, 2. BDL = Not Detected

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 Page 2 of 4

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Sample particular Earth Enhancing Compound

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Date of testing  
16.07.2020 To 18.07.2020

### Results

S. No.	Name of Parameter	Unit	Observed Value	Test Method
7.	Leachable elements	mg/kg	<0.10	IEC 62561-7/EN 12457-2
	Arsenic (as As)	mg/kg	<0.10	
	Barium (as Ba)	mg/kg	<0.10	
	Cadmium (as Cd)	mg/kg	<0.10	
	Cobalt (as Co)	mg/kg	<0.10	
	Chromium (as Cr)	mg/kg	<0.10	
	Molybdenum (as Mo)	mg/kg	<0.10	
	Nickel (as Ni)	mg/kg	<0.10	
	Lead as (Pb)	mg/kg	<0.10	
	Vanadium (as V)	mg/kg	<0.10	
	Copper (as Cu)	mg/kg	<0.10	
	Zinc (as Zn)	mg/kg	<0.10	
	Sulphate (as SO <sub>4</sub> )	mg/kg	8947	APHA 4500 SO <sub>4</sub>
	Hex. Chromium (as Cr <sup>6+</sup> )	mg/kg	<0.10	IS: 3025 (P-52) 2003
	Chloride (as Cl)	mg/kg	113742	APHA 4500 Cl
	Nitrate (as NO <sub>3</sub> )	mg/kg	88.0	APHA 4500 B
8.	Total Sulphur	% by mass	0.43	IS: 1350 (P-3) 1969

#### Leaching Condition

pH - 7.84  
L/S Ration - 10 liter/kg  
Leaching Duration - 48

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Page 3 of 4

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Khasra No. 33, Sikri Shahpur Road  
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D.O.R. 16.07.2020

Drawn By CUSTOMER

Sample particular Earth Enhancing Compound

J.O. No. 16072020-01

Date of testing  
16.07.2020 To 18.07.2020

### Results

S. No.	Name of Parameter	Requirement as per IEC 62561-7	Observed Value	Test Method
8.	Corrosion Resistance Test			
	a. Corrosion rate of copper earth electrode: $\mu\text{m}/\text{yr}$ (At non aggressive environments and applied voltage 25mV)	Max. 7.3	5.22	IEC 62561-7/ ASTM G59-97/ ASTM G102-89
	Polarization resistance: $\Omega.\text{m}^2$	Min. 4	5.30	
	b. Corrosion rate of galvanized earth electrodes: $\mu\text{m}/\text{yr}$ (At non aggressive environments and applied voltage 20mV)	Max. 9.9	6.72	
	Polarization resistance: $\Omega.\text{m}^2$	Min. 3	5.10	
	c. Corrosion rate of copper plated earth electrode: $\mu\text{m}/\text{yr}$ (At aggressive environments and applied voltage 50mV)	----	----	
	Polarization resistance: $\Omega.\text{m}^2$	Min. 8	9.80	
	d. Corrosion rate of galvanized earth electrodes: $\mu\text{m}/\text{yr}$ (At aggressive environments and applied voltage 50mV)	----	----	
	Polarization resistance: $\Omega.\text{m}^2$	Min. 7.6	8.60	

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

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Page 4 of 4

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## TEST REPORT

TC No.- 000015072122-01

Issue Date 16.07.2020

S.R.F. 0189G1

Issued To NCR Enterprises  
Khasra No. 33, Sikri Shahpur Road  
Sikri, Faridabad

D.O.R. 15.07.2020

Drawn By CUSTOMER

Sample particular Earth Enhancing Compound

J.O. No. 15072020-01

Date of testing  
15.07.2020 To 16.07.2020

### Results

S. No.	Name of Parameter	Requirement as per IEC 62561-7	Observed Value	Test Method
1.	pH Value (at 25°C) (10% aqueous solution)	----	7.84	EN 12457-2
2.	Electrical Resistivity Test ( $\Omega.m$ )	Max. 0.20	0.09	IEC 62561-7/ ASTM G57-06

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

  
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# SHIVAM QUALITY TEST HOUSE

Plot No. 195, Anand Bakery, Arya Nagar, Mohana Road,  
Ballabgarh, Faridabad - 121004

E-mail : quality.shivamtesthouse@gmail.com

Phone : 9560999153, 9654048564

## TEST REPORT

CERTIFICATE NO.:

273

ISSUED DATE :

16/03/2020

Issue To: NCR Enterprises

C/O Angle Electricals, khasra No.- 33, Sikari Shahpur  
Road, Faridabad

Sample Particulars: Earth Enhancement Material

Date of Testing

16/03/2020

Sample Received On: 14/03/2020

Sample drawn By : Customer

S.R.F : 19

Job Order : 201

Protocol Used

Vogel's

Sr.No.	Test Parameter	Results	Requirement as per IEC:62561-7
1.	Sulphur Test	0.065	2.0 Max.

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

Checked By

Authorised Signatory

### Note

1. Sample shall be retained only for 90 days unless specified by the customer.
2. The result listed refer only to the tested sample and applicable parameters. Endorsement of product is neither inferred nor implied.
3. Total liability of our works is limited to invoiced amount.
4. This report can not be used as an evidence in the court of law without the written approval of lab.
5. Certificate shall not be reproduced except in full, without the written approval of the laboratory.
6. \* Not under NABL Scope
7. # Results found outside the range of NABL scope.