



ISO / IEC 17025:2005
Certificate No. TC-6159
NABL ACCREDITED LABORATORY

INDICATIVE CONSULTANT INDIA



FORMAT NO: ICI/FM/51

Tel: 03224-275765
Tel Fax: 03224-276511
Mob.: 9434017584, 9232395890
E-mail: jayantasarika67@gmail.com
indicativeconsultantindia@gmail.com
Website: www.indicativeconsultantindia.com

S.S.I. Reg. No. 190192100010

(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)

HPL Link Road, Basudevapur, P.O.-Khanjanchak, Haldia, Dist.-Purba Medinipur, PIN-721602

ISO/IEC 17025:2005, ACCREDITED BY NABL, CONSTITUENT BOARD OF QUALITY COUNCIL OF INDIA
IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.	: ICI/A/19-20/L&TC/004	Sample Ref. No.	: L&TC /004
Issued To	: M/s. L & T Construction (Building & Factories)	Report Date	: 17.04.19
Address	: Larsen & Toubro Ltd., Ramco Cement Ltd., P.O. - Haridaspur, P.S. - Dharmsala, Dist - Jajpur, PIN - 755 024, Odisha, India	Date of Sampling	: 11.04.19 to 12.04.19
Sample Description	: Ambient Air	Analysis Started on	: 16.04.19
Location	: Near Batching Plant	Analysis completed on	: 16.04.19
Sample Condition	: Glass Microfibre Filter Paper & Plastic Bottle		
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2012), USEPA CFR 40 (Part - 50): Appendix L, IS: 5182 (Part - 2), 2001 (RA 2012), IS: 5182 (Part - 6): 2006 (RA 2012).		
Ambient Temperature in °C (Average)	: 29.0		

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Time of Sampling	Concentration ($\mu\text{g} / \text{m}^3$)			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
09:00 AM to 05:00 PM	75.58	23.26	11.32	36.37
05:30 PM to 01:30 AM	84.90	31.59	13.37	38.97
02:00 AM to 10:00 AM	72.42	26.35	10.29	34.64

-----End of Report-----

Limit ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)

PM₁₀ = 100 $\mu\text{g}/\text{m}^3$, PM_{2.5} = 60 $\mu\text{g}/\text{m}^3$, SO₂ = 80 $\mu\text{g}/\text{m}^3$, NO₂ = 80 $\mu\text{g}/\text{m}^3$, 24 hours basis (Industrial, Residential, Rural & Other Area)
PM₁₀ = 100 $\mu\text{g}/\text{m}^3$, PM_{2.5} = 60 $\mu\text{g}/\text{m}^3$, SO₂ = 80 $\mu\text{g}/\text{m}^3$, NO₂ = 80 $\mu\text{g}/\text{m}^3$, 24 hours basis (Ecologically Sensitive Area)

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi
Notification dated 18th November 2009

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Checked By

For, Indicative Consultant India

Debasnis Halder
(Sr. Chemist)
Signatory Authority



- Note: 1. Test results shown in this test report relate only to the item tested.
2. This test report shall not be reproduce anywhere except in full and in some format without the approval of the laboratory.
3. Retention period of tested samples (Filter Paper) is 6 months from the date of issue of test report unless otherwise specified.

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FORMAT NO.: ICI/FM/59

Tel : 03224-275765
 Tel Fax : 03224-276511
 Mob : 9434017584, 9232395890
 E-mail : jayantasarkar67@gmail.com
 indicativeconsultantindia@gmail.com
 Website : www.indicativeconsultantindia.com

S.S.I. Reg. No. 190192100010

(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)

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 IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/076
 Issued To : M/s. L & T Construction (Building & Factories)
 Address : Larsen & Toubro Ltd., Ramco Cement Ltd.,
 P.O. - Haridaspur, P.S. - Dharmsala,
 Dist - Jajpur, PIN - 755 024, Odisha, India

Sample Ref. No. : SL/076
 Report Date : 17.04.19
 Date of Monitoring : 11.04.19

Sample Description : Workzone Noise
 Sampling Method : By Digital Noise Meter
 Test Method : IS 4954:1968 (RA 2014)
 Location : Carpentree Work Shop
 Limit : 90 dB (A) (8 hrs. per day exposure)
 : [Source:CPCB standard (Annexure - III)]

Monitoring Details :

Height from the floor : 1.5 M Starting Time : 10:40 AM
 Distance of Source : 3.0 M Total Time (T) : 18 Min
 Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ^{^(Li/10)}	Sum of ft X 10 ^{^(Li/10)}
1	74.3	0.11111111	2691534.804	164633614.447
2	64.5		281838.293	
3	60.1		102329.299	
4	64.6		288403.150	
5	86.3		42657951.880	
6	86.9		48977881.937	
7	88.3		67608297.539	
8	72.5		1778279.410	
9	60.5		112201.845	
10	61.3		134896.288	

* The equivalent Noise Level Leq. 82.17 dB(A)

Maximum dB(A): 88.3

Minimum dB(A): 60.1

..... End of Report

.....
 /Checked By

For, INDICATIVE CONSULTANT INDIA

Debashis Halder
 (Sr. Chemist)

Signatory Authority



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HPL Link Road, Basudevpur, Khanjanchak,
Haldia, Purba Medinipur, PIN-721602

FORMAT NO: ICI/FM/55

☎ : 03224-275765, 📠 : 9434017584, 9232395890, 7797506973
E-mail : jayantasarkar67@gmail.com, indicativeconsultantindia@gmail.com, Website : www.indicativeconsultantindia.com

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India
Sample submitted and identified by customer as: N.A.

Report No. : ICI/W/19-20/057
Issued To : M/s. L & T Construction
(Building & Factories)
Address : Larsen & Toubro Ltd., Ramco Cement Ltd., P.O. -
Haridaspur, P.S. - Dharmsala, Dist - Jajpur, PIN - 755
024, Odisha, India
Sample Condition : In Plastic Bottle
Sample Description : Drinking Water
Sampling Method : IS:3025 (Part 1): 1987 (RA 2014), APHA 22nd ed 2012
Test Method : APHA 22nd ed 2012, IS:3025
Location : Colony

Sample Ref. No. : W/057
Report Date : 20.04.19
Date of Sampling : 11.04.19
Analysis Started on : 13.04.19
Analysis Completed on : 19.04.19
Time of Sampling : 11:30 AM

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
1.	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-5):1983: RA 2012 APHA 22 nd Edition 2150 B
2.	pH (at 24°C)	-	6.86	6.5 to 8.5	No Relaxation	IS:3025(Part-11):1983: RA 2012, APHA 22 nd Edition 4500-H B
3.	Colour	Hazen Unit	<5.0	5	15	IS:3025(Part-4) 1983: RA 2012
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-7 & 8) 1984: RA 2012
5.	Turbidity	N.T.U.	<1.0	1 (Max)	5 (Max)	IS:3025(Part-10):1984: RA 2012 APHA 22 nd Edition 2130 B
6.	Total Dissolved Solid (TDS)	mg/L	272.0	500 (Max)	2000 (Max)	IS:3025(Part-16):1984: RA 2012 APHA 22 nd Edition 2540 C
7.	Total Hardness as CaCO ₃	mg/L	162.0	200 (Max)	600 (Max)	IS:3025(Part-21): 2009: RA 2012 APHA 22 nd Edition 2340 C
8.	Calcium as Ca	mg/L	35.4	75 (Max)	200 (Max)	IS:3025(Part-40):1991: RA 2014 APHA 22 nd Edition 3500Ca B
9.	Magnesium as Mg	mg/L	17.9	30 (Max)	100 (Max)	IS:3025(Part-46):1994: RA 2014 APHA 22 nd Edition 3500Mg B
10.	Chloride as Cl	mg/L	30.8	250 (Max)	1000 (Max)	IS:3025(Part-32):1988: RA 2014 APHA 22 nd Edition 4500Cl B
11.	Total Alkalinity as CaCO ₃	mg/L	185.6	200 (Max)	600 (Max)	IS:3025(Part-23):1986: RA 2014 APHA 22 nd Edition 2320 B
12.	Iron as Fe	mg/L	0.10	0.3 (Max)	No Relaxation	IS:3025(Part-53):2003: RA 2012 APHA 22 nd Edition 3500-Fe B
13.	Sulfate as SO ₄	mg/L	60.0	200 (Max)	400 (Max)	IS:3025(Part-24):1986: RA 2014 APHA 22 nd Edition 4500 SO ₄ ²⁻ E
14.	Arsenic as As	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 22 nd Edition 3500As B
15.	Manganese as Mn	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 22 nd Edition 3111 B

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HPL Link Road, Basudevpur, Khanjanchak,
Haldia, Purba Medinipur, PIN-721602


☎ : 03224-275765, ☎ : 9434017584, 9232395890, 7797506973
E-mail : jayantasarkar67@gmail.com, indicativeconsultantindia@gmail.com, Website : www.indicativeconsultantindia.com

Report No : ICI/W/19-20/057

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
16	Fluoride as F	mg/L	<0.04	1 (Max)	1.5 (Max)	IS:3025(Part-60):2008 : RA 2013 APHA 22 nd Edition 4500 FD
17	Lead as Pb	mg/L	<0.01	0.01(Max)	No Relaxation	APHA 22 nd Edition 3111B
18	Mercury as Hg	mg/L	<0.001	0.001 (Max)	No Relaxation	APHA 22 nd Edition 3500 Hg
19	Zinc as Zn	mg/L	<0.02	5 (Max)	15 (Max)	APHA 22 nd Edition 3111B
20	Copper as Cu	mg/L	<0.02	0.05 (Max)	1.5 (Max)	APHA 22 nd Edition 3111B
21	Phenolic Compounds as C ₆ H ₅ OH	mg/L	<0.001	0.001 (Max)	0.002 (Max)	APHA 22 nd Edition 5530 C
22	Nitrate as NO ₃	mg/L	<0.1	45 (Max)	No Relaxation	APHA 22 nd Edition 3500NO ₃
23	Residual Free Chlorine	mg/L	Nil	0.2 (Min)	1.0 (Min)	IS:3025(Part-26):1986: RA 2014 APHA 22 nd Edition 4500Cl
24	Chromium as Cr ⁺⁶	mg/L	<0.05	0.05 (Max)	No Relaxation	APHA 22 nd Edition 3500 Cr-B
25	Cadmium as Cd	mg/L	<0.001	0.003 (Max)	No Relaxation	IS:3025 (Part-32): 2003:RA 2014 APHA 22 nd Edition 3111B
26	Cyanide as CN	mg/L	<0.05	0.05 (Max)	No Relaxation	IS:3025 (Part - 27) : 1986
27	Aluminium as Al	mg/L	<0.02	0.03 (Max)	0.2 (Max)	IS:3025 (Part - 31):1988: RA 2014
28	Anionic Detergents as MBAS	mg/L	<0.02	0.2 (Max)	1.0 (Max)	APHA 22 nd Edition 5540C
29	Boron as B	mg/L	<0.1	0.5 (Max)	1.0 (Max)	IS:3025(Part-29):1986 : RA 2014 APHA 22 nd Edition 3500B
30	Selenium as Se	mg/L	<0.01	0.01 (Max)	No Relaxation	IS:3025 (Part - 28) 1986:RA 2014
Bacteriological Characteristics						
31	Total Coliform	MPN/100 ml	<2.0	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981: 1 st Revision: RA 2009
32	Fecal Coliform	MPN/100 ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981: 1 st Revision: RA 2009

Remarks: 1) Chemically satisfactory for the above mentioned parameters.
2) Bacteriologically satisfactory for the above mentioned parameters.

End of Report

Checked By: 

For, Indicative Consultant India

Debashis Halder
(Sr. Chemist)
Signatory Authority



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INDICATIVE CONSULTANT INDIA

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190192100010

(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)
HPL Link Road, Basudevapur, Khanjanchak,
Haldia, Purba Medinipur, PIN-721602

☎ : 03224-275765, 📠 : 9434017584, 9232395890, 7797506973
E-mail : jayantasarkar67@gmail.com, indicativeconsultantindia@gmail.com, Website : www.indicativeconsultantindia.com

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India
Sample submitted and identified by customer as: *N.A.*

Report No.	: ICI/W/19-20/056	Sample Ref. No.	: W/056
Issued To	: M/s. L & T Construction (Building & Factories)	Report Date	: 20.04.19
Address	: Larsen & Toubro Ltd., Ramco Cement Ltd., P.O. - Haridaspur, P.S. - Dharmasala, Dist - Jajpur, PIN - 755 024, Odisha, India	Date of Sampling	: 11.04.19
Sample Condition	: In Plastic Bottle	Analysis Started on	: 13.04.19
Sample Description	: Drinking Water	Analysis Completed on	: 19.04.19
Sampling Method	: IS:3025 (Part 1): 1987 (RA 2014), APHA 22nd ed 2012	Time of Sampling	: 11:00 AM
Test Method	: APHA 22 nd ed 2012, IS:3025		
Location	: Side Near Time Office		

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
1.	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-5):1983: RA 2012 APHA 22 nd Edition 2150 B
2.	pH (at 24°C)	-	6.97	6.5 to 8.5	No Relaxation	IS:3025(Part-11):1983: RA 2012, APHA 22 nd Edition 4500-H' B
3.	Colour	Hazen Unit	<5.0	5	15	IS:3025(Part-4) 1983: RA 2012
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-7 & 8) 1984: RA 2012
5.	Turbidity	N.T.U.	<1.0	1 (Max)	5 (Max)	IS:3025(Part-10):1984: RA 2012 APHA 22 nd Edition 2130 B
6.	Total Dissolved Solid (TDS)	mg/L	326.0	500 (Max)	2000 (Max)	IS:3025(Part-16):1984: RA 2012 APHA 22 nd Edition 2540 C
7.	Total Hardness as CaCO ₃	mg/L	225.8	200 (Max)	600 (Max)	IS:3025(Part-21):2009: RA 2012 APHA 22 nd Edition 2340 C
8.	Calcium as Ca	mg/L	49.2	75 (Max)	200 (Max)	IS:3025(Part-40):1991: RA 2014 APHA 22 nd Edition 3500Ca B
9.	Magnesium as Mg	mg/L	25.1	30 (Max)	100 (Max)	IS:3025(Part-46):1994: RA 2014 APHA 22 nd Edition 3500Mg B
10.	Chloride as Cl	mg/L	33.4	250 (Max)	1000 (Max)	IS:3025(Part-32):1988: RA 2014 APHA 22 nd Edition 4500Cl' B
11.	Total Alkalinity as CaCO ₃	mg/L	294.4	200 (Max)	600 (Max)	IS:3025(Part-23):1986: RA 2014 APHA 22 nd Edition 2320 B
12.	Iron as Fe	mg/L	0.16	0.3 (Max)	No Relaxation	IS:3025(Part-53):2003: RA 2012 APHA 22 nd Edition 3500-Fe B
13.	Sulfate as SO ₄	mg/L	8.0	200 (Max)	400 (Max)	IS:3025(Part-24):1986: RA 2014 APHA 22 nd Edition 4500 SO ₄ ²⁻ E
14.	Arsenic as As	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 22 nd Edition 3500As B
15.	Manganese as Mn	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 22 nd Edition 3111 B

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S.S.I. Reg. No.
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HPL Link Road, Basudevpur, Khanjanchak,
Haldia, Purba Medinipur, PIN-721602

☎ : 03224-275765, 📠 : 9434017584, 9232395890, 7797506973
E-mail : jayantasarkar67@gmail.com, indicativeconsultantindia@gmail.com, Website : www.indicativeconsultantindia.com

Report No : ICI/W/19-20/056

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
16.	Fluoride as F	mg/L	<0.04	1 (Max)	1.5 (Max)	IS:3025(Part-60):2008 : RA 2013 APHA 22 nd Edition 4500 FD
17.	Lead as Pb	mg/L	<0.01	0.01 (Max)	No Relaxation	APHA 22 nd Edition 3111B
18.	Mercury as Hg	mg/L	<0.001	0.001 (Max)	No Relaxation	APHA 22 nd Edition 3500 Hg
19.	Zinc as Zn	mg/L	<0.02	5 (Max)	15 (Max)	APHA 22 nd Edition 3111B
20.	Copper as Cu	mg/L	<0.02	0.05 (Max)	1.5 (Max)	APHA 22 nd Edition 3111B
21.	Phenolic Compounds as C ₆ H ₅ OH	mg/L	<0.001	0.001 (Max)	0.002 (Max)	APHA 22 nd Edition 5530 C
22.	Nitrate as NO ₃	mg/L	<0.1	45 (Max)	No Relaxation	APHA 22 nd Edition 3500NO ₃
23.	Residual Free Chlorine	mg/L	Nil	0.2 (Min)	1.0 (Min)	IS:3025(Part-26):1986: RA 2014 APHA 22 nd Edition 4500Cl
24.	Chromium as Cr ⁺⁶	mg/L	<0.05	0.05 (Max)	No Relaxation	APHA 22 nd Edition 3500 Cr B IS:3025 (Part-52): 2003: RA 2014
25.	Cadmium as Cd	mg/L	<0.001	0.003 (Max)	No Relaxation	APHA 22 nd Edition 3111B
26.	Cyanide as CN	mg/L	<0.05	0.05 (Max)	No Relaxation	IS:3025 (Part - 27) : 1986
27.	Aluminium as Al	mg/L	<0.02	0.03 (Max)	0.2 (Max)	IS:3025 (Part - 31):1988: RA 2014
28.	Anionic Detergents as MBAS	mg/L	<0.02	0.2 (Max)	1.0 (Max)	APHA 22 nd Edition 5540C
29.	Boron as B	mg/L	<0.1	0.5 (Max)	1.0 (Max)	IS:3025(Part-29):1986 : RA 2014 APHA 22 nd Edition 3500B
30.	Selenium as Se	mg/L	<0.01	0.01 (Max)	No Relaxation	IS:3025 (Part - 28) 1986. RA 2014
Bacteriological Characteristics						
31.	Total Coliform	MPN/100 ml	<2.0	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981: 1 st Revision: RA 2009
32.	Fecal Coliform	MPN/100 ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981: 1 st Revision: RA 2009

marks: 1) Chemically satisfactory for the above mentioned parameters however the values of Total Hardness & Total Alkalinity are above the desirable limit but below the permissible limit.

2) Bacteriologically satisfactory for the above mentioned parameters.

----- End of Report -----

Checked By
[Signature]

For, Indicative Consultant India

Debashis Haldia
(Sr. Chemist)
Signatory Authority



Page 2 of 2

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